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API Reference

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Document conventions








Style	Description	Example
 Danger	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 Danger: Resetting will result in the loss of user configuration data.
 Warning	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 Warning: Restarting will cause business interruption. About 10 minutes are required to restart an instance.
 Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: If the weight is set to 0, the server no longer receives new requests.
 Note	A note indicates supplemental instructions, best practices, tips, and other content.	 Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings> Network> Set network type .
Bold	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click OK .
Courier font	Courier font is used for commands	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

Table of Contents

1.Introduction	05
2.API operations	06
3.Request method	07
4.Common parameters	09
5.Signature method	13
6.RAM authentication	18
7.AllocateDedicatedHosts	19
8.DescribeDedicatedHostTypes	28
9.DescribeDedicatedHosts	32
10.DescribeDedicatedHostAutoRenew	43
11.ModifyDedicatedHostAttribute	47
12.ModifyDedicatedHostAutoRenewAttribute	50
13.ModifyDedicatedHostAutoReleaseTime	53
14.DescribeDedicatedHosts	56
15.ModifyDedicatedHostsChargeType	67
16.RenewDedicatedHosts	74
17.ReleaseDedicatedHost	77
18.RedeployDedicatedHost	79

1.Introduction

This topic provides the API reference of Alibaba Cloud Dedicated Host (DDH).

Limits


There are limits to the number and types of dedicated hosts you can create. For more information, see [Limits](#).

If the API description, optional parameter values, or available specifications conflict with the resource or specification limits described in the Limits topic, the rules described in the Limits topic takes precedence.


Invocation Methods

You can call a DDH operation by using the following methods:

- (Recommended) Programming language-specific [SDKs](#) for the DDH API.
- Alibaba Cloud [CLI](#)
- Alibaba Cloud [OpenAPI Explorer](#)
- URL-based API request

 **Note** To initiate URL-based API requests, you must complete the authentication process and encode the URL for every request. For more information, see [Request method](#).

In particular, you can skip the authentication process by using the SDK, CLI, and API Explorer to call the operations.

 **Note** When you call an operation by using the Alibaba Cloud CLI and SDK, remove the periods (.) from request parameters before you use them. For example, use `SystemDiskCategory` for the request parameter instead of `SystemDisk.Category`.

Request

The request URL consists of different parameters and has a fixed syntax. The URL contains common parameters, your signature, and operation-specific parameters. We provide URL request samples for every API. However, for better readability, the URLs of the samples in this API reference are not encoded. You must encode the URL before you initiate a request. For more information about how to encode a URL and call an operation, see [Request method](#), [Common parameters](#), and [Signature method](#).

The system returns the request result based on your signature authentication. The response parameters are displayed if the authentication is successful, and the error message is displayed if the authentication fails. You can troubleshoot issues by referring to the common error codes and operation-specific error codes.

Currently, DDH shares the same endpoint with Elastic Compute Service (ECS). For more information, see [Request syntax](#).

2.API operations

The following table lists the API operations that are available for use in Dedicated Host (DDH).

API	Description
AllocateDedicatedHosts	Creates one or more subscription dedicated hosts. DDH provides dedicated physical resources for each tenant. You can create Elastic Compute Service (ECS) instances on a dedicated host and view the specifications of the physical server on which the dedicated host resides.
DescribeDedicatedHostTypes	Queries the specifications of supported dedicated host types in a region, or the ECS instance families that are supported by the dedicated hosts.
DescribeDedicatedHosts	Queries the detailed information of one or more dedicated hosts, including the physical performance metrics, virtual machine code, usage status, and list of ECS instances that have been created.
DescribeDedicatedHostAutoRenew	Queries the auto-renewal status of one or more subscription dedicated hosts.
ModifyDedicatedHostAttribute	Modifies the information of a dedicated host, including the name, description, and instance migration policy that is applied when the dedicated host fails.
ModifyDedicatedHostAutoRenewAttribute	Enables or disables automatic renewal for one or more subscription dedicated hosts.
ModifyDedicatedHostAutoReleaseTime	Sets the automatic release time for a pay-as-you-go dedicated host or cancels the automatic release of a pay-as-you-go dedicated host.
DescribeDedicatedHosts	Changes the dedicated host of an ECS instance. The ECS instance and the destination dedicated host must be in the same region.
ModifyDedicatedHostsChargeType	Modifies the billing method of a dedicated host.
ReleaseDedicatedHost	Releases a pay-as-you-go dedicated host.
RenewDedicatedHosts	Renews one or more subscription dedicated hosts.
RedeployDedicatedHost	Migrates ECS instances from a failed dedicated host.

3.Request method

To send a Dedicated Host (DDH) API request, you can send an HTTP GET request to the DDH endpoint. You must add the request parameters that correspond to the called API operation. After you call the operation, the system returns a response. The request and response are encoded in UTF-8.

Request syntax

DDH API operations use the Remote Procedure Call (RPC) protocol. You can call API operations by sending HTTP GET requests.

The following request syntax is used:


```
http://Endpoint/?Action=xx&Parameters
```

where:

- **Endpoint:** the endpoint of the DDH API is *ecs.aliyuncs.com*.
- **Action:** the name of the operation that you want to perform. For example, to query the details of one or more dedicated hosts, you must set the Action parameter to [DescribeDedicatedHosts](#).
- **Version:** the version of the API. The version of the DDH API is *2014-05-26*.
- **Parameters:** the request parameters for the operation. Separate multiple parameters with ampersands (&).

Request parameters include both common request parameters and operation-specific parameters. Common parameters include the API version number and identity verification information. For more information, see [Common parameters](#) and [Signature method](#).

In the following sample, the [DescribeDedicatedHosts](#) operation is called to query the details of the dedicated hosts in a region.

 **Note** The sample requests in the DDH API reference are formatted for better readability.

```
https://ecs.aliyuncs.com/?Action=DescribeDedicatedHost
&Format=xml
&Version=2014-05-26
&Signature=xxxx%xxxx%3D
&SignatureMethod=HMAC-SHA1
&SignatureNonce=15215528852396
&SignatureVersion=1.0
&AccessKeyId=key-test
&TimeStamp=2012-06-01T12:00:00Z
&RegionId=cn-hangzhou
...
```

Responses

Responses can be returned in the JSON or XML format. The default response format is XML. To change the format, you can specify the `Format` common parameter in requests. For more information, see [Common parameters](#). The sample responses provided in DDH API Reference are formatted with newlines and indentations for better readability. However, the actual returned results do not have newlines or indentations.

API responses use the HTTP response format. HTTP status codes from 200 to 299 indicate a successful call. Examples:

- XML format

```
<?xml version="1.0" encoding="UTF-8"?> <!--The root node of the response-->
<ActionResponse> <!--Returned request ID-->
  <RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId> <!--Response data-->
</ActionResponse>
```

- JSON format

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216" /* Response data */
}
```

HTTP status codes from 400 to 499 or from 500 to 599 indicate a successful call. Examples:

- XML format

```
<?xml version="1.0" encoding="UTF-8"? ><!--The root node of the response-->
<Error>
  <RequestId>540CFF28-407A-40B5-B6A5-74Bxxxxxxxx</RequestId> <!-- Request ID -->
  <HostId>ecs.aliyuncs.com</HostId> <!-- Service endpoint -->
  <Code>MissingParameter.CommandId</Code> <!-- Error code -->
  <Message>The input parameter "CommandId" that is mandatory for processing this request is not supplied.</Mes
sage> <!--Error message-->
</Error>
```

- JSON format

```
{
  "RequestId": "540CFF28-407A-40B5-B6A5-74Bxxxxxxxx", /* Request ID */
  "HostId": "ecs.aliyuncs.com", /* Service Endpoint */
  "Code": "MissingParameter.CommandId", /* Error code */
  "Message": "The input parameter "CommandId" that is mandatory for processing this request is not supplied." /* Er
ror message */
}
```

If an error occurs when you call an API operation, you can troubleshoot the error based on the returned error code. For more information, see [Common error codes](#) or visit the [API Error Center](#). If the error persists, you can [submit a ticket](#) and provide the HostId and RequestId.

4.Common parameters

This topic describes the request parameters, response parameters, and common error codes that are required for all API operations of Dedicated Host (DDH).

Common request parameters

Parameter	Type	Required	Description
Action	String	Yes	The operation that you want to perform. For more information, see Introduction .
AccessKeyId	String	Yes	The AccessKey ID provided to you by Alibaba Cloud. The AccessKey pair is used to call API operation for authentication, similar to how the user password is used to log on to the Elastic Compute Service (ECS) console. For more information, see .
Signature	String	Yes	The signature string of the current request. For more information about the signature, see Signature method .
SignatureMethod	String	Yes	The encryption method of the signature string. Set the value to HMAC-SHA1.
SignatureVersion	String	Yes	The version of the signature encryption method. Set the value to 1.0.
SignatureNonce	String	Yes	A unique, random number used to prevent replay attacks. You must use different numbers for different requests.
Timestamp	String	Yes	The timestamp of the request.Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. The timestamp of the request, for example, 2018-01-01T12:00:00Z . The time must be in UTC+0.
Version	String	Yes	The version number of the API. The value must be in the YYYY-MM-DD format. Set this value to 2014-05-26.
Format	String	No	The format of the response parameters. Valid values: json and xml. Default value: xml.

Sample requests:

```
https://ecs.aliyuncs.com/?Action=XXXXXX
&Format=xml
&Version=2014-05-26
&Signature=Pc5WB8gokVn0xfeu%2FZV%2BiNM1dgl%3D
&SignatureMethod=HMAC-SHA1
&SignatureNonce=15215528852396
&SignatureVersion=1.0
&AccessKeyId=key-test
&Timestamp=2018-01-01T12:00:00Z
...
```

Common response parameters

All Alibaba Cloud API responses use a unified format. Responses can be returned in either the JSON or XML format. You can specify the response format when you make the request. The default response format is XML. Every response returns a unique RequestID regardless of whether the call is successful.

- API responses use the HTTP response format. A `2xx` status code indicates a successful call.
- A `4xx` or `5xx` status code indicates a failed call.

The following are sample responses:

- XML format

```
<? xml version="1.0" encoding="utf-8"? >
  <!--Response root node-->
  <API operation name + response>
    <!--Request ID-->
    <RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId>
    <!--Response data-->
  </API operation name + response>
```

- JSON format

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216",
  /*Response data*/
}
```

Common error codes

Error code	HTTP status code	Error message
IdempotentParameterMismatch	400	The request is retried with updated parameters.
IllegalTimestamp	400	The input parameter "Timestamp" that is mandatory for processing this request is not supplied.
IncompleteSignature	400	The request signature does not conform to Aliyun standards.
InsufficientBalance	400	Your account does not have enough balance.
InvalidAccessKeyId.NotFound	400	The specified Access Key ID does not exist.
InvalidOwner	400	OwnerId and OwnerAccount can't be used at one API access.
InvalidOwnerAccount	400	The specified OwnerAccount is not valid.
InvalidOwnerId	400	The specified OwnerId is not valid.
InvalidParamater	400	The specified parameter "SignatureMethod" is not valid.
InvalidParamater	400	The specified parameter "SignatureVersion" is not valid.
InvalidParameter	400	The specified parameter is not valid.

Error code	HTTP status code	Error message
InvalidParameter	400	The specified parameter "Action or Version" is not valid.
InvalidParameter.IsNull	400	The required parameter must be not null.
MissingParameter	400	The input parameter "Action" that is mandatory for processing this request is not supplied.
MissingParameter	400	The input parameter "AccessKeyId" that is mandatory for processing this request is not supplied.
MissingParameter	400	The input parameter "Signature" that is mandatory for processing the request is not supplied.
MissingParameter	400	The input parameter "TimeStamp" that is mandatory for processing this request is not supplied.
MissingParameter	400	The input parameter "Version" that is mandatory for processing this request is not supplied.
SignatureNonceUsed	400	The request signature nonce has been used.
Throttling	400	You have made too many requests within a short time; your request is denied due to request throttling.
UnsupportedParameter	400	The parameters is unsupported.
UnknownError	400	The request processing has failed due to some unknown error.
ChargeTypeViolation	403	The operation is not permitted due to charge type of the instance.
Forbidden.AccessKeyDisabled	403	The Access Key is disabled.
Forbidden.NotSupportRAM	403	This action does not support accessed by RAM mode.
Forbidden.RAM	403	User not authorized to operate on the specified resource, or this API doesn't support RAM.
Forbidden.RiskControl	403	This operation is forbidden by Aliyun RiskControl system.
Forbidden.SubUser	403	The specified action is not available for you.
Forbidden.Unauthorized	403	User not authorized to operate on the specified resource.
InvalidAccount.NotFound	403	The specified Account does not exist.
InvalidAction	403	Specified action is not valid.
InvalidIdempotenceParameter.Mismatch	403	The specified parameters are different from before.
InvalidParameter.OwnerAccount	403	OwnerAccount is Invalid.

Error code	HTTP status code	Error message
InvalidParameter.ResourceOwnerAccount	403	ResourceOwnerAccount is Invalid.
LastTokenProcessing	403	The last token request is processing.
MissingParameter	403	The input parameter OwnerId,OwnerAccount that is mandatory for processing this request is not supplied.
RealNameAuthenticationError	403	Your account has not passed the real-name authentication yet.
UnsupportedHTTPMethod	403	This http method is not supported.
InvalidDiskId.NotFound	404	The specified DiskId does not exist.
InvalidImageId.NotFound	404	The specified ImageId does not exist.
InvalidInstanceId.NotFound	404	The specified InstanceId does not exist.
InvalidRegionId.NotFound	404	The specified RegionId does not exist.
InvalidSecurityGroupId.NotFound	404	The specified SecurityGroupId does not exist.
InvalidSnapshotId.NotFound	404	The specified SnapshotId does not exist.
OperationConflict	409	Request was denied due to conflict with a previous request.
InternalServerError	500	The request processing has failed due to some unknown error, exception or failure.
ServiceUnavailable	503	The request has failed due to a temporary failure of the server.
ServiceUnavailable.RegionMaintaining	503	System maintenance is in progress on the selected region, please wait a few minutes before trying again.

5. Signature method

Alibaba Cloud Dedicated Host (DDH) uses request signatures to identify the API caller. This ensures data security when you call API operations. When you initiate HTTP or HTTPS API requests, the requests must include the signature information. This topic describes how to sign a request.

Step 1: Construct a canonicalized query string

1. Sort the request parameters. Construct a canonicalized query string by arranging the request parameters in alphabetical order. These request parameters include all common parameters and operation-specific parameters except `Signature`. For more information, see [Common request parameters](#).

Note If a request is submitted by using the GET method, the request parameters are specified after the question mark (`?`) and separated with ampersands (`&`) in the URL.

2. Encode parameters. Encode the request parameters and parameter values by using the UTF-8 character set and following the [RFC 3986](#) specification. The following encoding rules are used:
 - Letters, digits, hyphens (`-`), underscores (`_`), periods (`.`), and tildes (`~`) do not need to be encoded.
 - Other characters must be percent-encoded in the `%XY` format. `XY` represents the ASCII code of a character in hexadecimal notation. For example, double quotation marks (`"`) are encoded as `%22`.
 - Extended UTF-8 characters are encoded in the `%XY%ZA...` format.
 - Spaces must be encoded as `%20`. Do not encode spaces as plus signs (`+`).

This encoding format is slightly different from the MIME encoding format `application/x-www-form-urlencoded`.

If you are using the Java standard library `java.net.URLEncoder`, you can use `PercentEncode` to encode the request parameters. Then, replace plus signs (`+`) with `%20`, asterisks (`*`) with `%2A`, and `%7E` with a tilde (`~`) to obtain the encoded string.

```
private static final String ENCODING = "UTF-8";
private static String percentEncode(String value) throws UnsupportedOperationException {
    return value != null ? URLEncoder.encode(value, ENCODING).replace("+", "%20").replace("*", "%2A").replace("%7E", "~") : null;
}
```

3. Use equal signs (`=`) to separate request parameters and their values.
4. Use ampersands (`&`) to concatenate different request parameters. Note that the order of the parameters must be the same as the order used in [Step 1](#).

You can obtain a canonicalized query string (`CanonicalizedQueryString`) that follows the [Request syntax](#).

Step 2: Construct a signature string


1. Construct a string-to-sign `StringToSign`. You can use `percentEncode` to process the canonicalized query string constructed in Step 1. The following rules are used:

```
StringToSign=
HTTPMethod + "&" + //HTTPMethod: the HTTP method used to make the request, such as GET.
percentEncode("/") + "&" + // percentEncode("/"): Encode the forward slash (/) in UTF-8 as %2F.
percentEncode(CanonicalizedQueryString) //Encode the canonicalized query string created in Step 1.
```

2. Calculate the HMAC-SHA1 value of the string-to-sign `StringToSign` based on the [RFC 2104](#) specification. The

Java Base64 encoding scheme is used in this example.

```
Signature = Base64( HMAC-SHA1( AccessSecret, UTF-8-Encoding-Of(StringToSign) ) )
```

 **Note** When you calculate the signature, the key specified in RFC 2104 is your `AccessKeySecret` with an ampersand (`&`) whose ASCII value is 38. For more information, see .

3. Encode the `Signature` parameter based on the `RFC 3986` specification and add the encoded signature to the canonicalized query string.

Example 1: Concatenate parameters

The `DescribeDedicatedHosts` operation is called in this example to show how to construct a signature by concatenating parameters. If `AccessKeyID` is set to `testid` and `AccessKeySecret` to `testsecret` , you can proceed to the following signature process:

1. Construct a canonicalized query string.

```
http://ecs.aliyuncs.com/?Timestamp=2016-02-23T12%3A46%3A24Z&Format=XML&AccessKeyId=testid&Action=DescribeDedicatedHosts&SignatureMethod=HMAC-SHA1&SignatureNonce=3ee8c1b8-xxxx-xxxx-xxxx-xxxxxxxxxx&Version=2014-05-26&SignatureVersion=1.0
```

2. Construct the string-to-sign `StringToSign` .

```
GET%2F&AccessKeyId%3Dtestid%26Action%3DDescribeDedicatedHosts%26Format%3DXML%26SignatureMethod%3DHMAC-SHA1%26SignatureNonce%3D3ee8c1b8-xxxx-xxxx-xxxx-xxxxxxxxxx%26SignatureVersion%3D1.0%26Timestamp%3D2016-02-23T12%253A46%253A24Z%26Version%3D2014-05-26
```

3. Calculate the signature value. If `AccessKeySecret` is set to `testsecret`, the key used for calculation is `testsecret&` . The calculated signature is `OLeaid51jvxuMvnyHOwuj%2BuX5qY%3D` . In this example, the JavaBase64 encoding scheme is used.

```
Signature = Base64( HMAC-SHA1( AccessSecret, UTF-8-Encoding-Of(StringToSign) ) )
```

4. Add the `Signature=OLeaid51jvxuMvnyHOwuj%2BuX5qY%3D` string that has been encoded based on `RFC 3986` to the URL in [Step 1](#).

```
http://ecs.aliyuncs.com/?SignatureVersion=1.0&Action=DescribeDedicatedHosts&Format=XML&SignatureNonce=3ee8c1b8-xxxx-xxxx-xxxx-xxxxxxxxxx&Version=2014-05-26&AccessKeyId=testid&Signature=OLeaid51jvxuMvnyHOwuj%2BuX5qY%3D&SignatureMethod=HMAC-SHA1&Timestamp=2016-02-23T12%253A46%253A24Z
```

After you obtain the new URL in [Step 4](#), you can use a browser, `cURL`, or `wget` to initiate an HTTP request to call the `DescribeDedicatedHosts` operation to query the details of one or more dedicated hosts.

Example 2: Use the standard library of the programming language

The `DescribeDedicatedHosts` operation is called in this example to show how to construct the signature by using the standard library. This example assumes that `AccessKeyID` is set to `testid` and `AccessKeySecret` is set to `testsecret` , and all request parameters are placed in a Java `Map<String, String>` object.

1. Predefine the encoding method.

```
private static final String ENCODING = "UTF-8";
private static String percentEncode(String value) throws UnsupportedEncodingException {
    return value != null ? URLEncoder.encode(value, ENCODING).replace("+", "%20").replace("*", "%2A").replace("%7E",
"~") : null;
}
```

2. Predefine the time format for the `Timestamp` parameter. The `Timestamp` parameter must conform to the [ISO8601](#) specification and must be in UTC+0.

```
private static final String ISO8601_DATE_FORMAT = "yyyy-MM-dd'T'HH:mm:ss'Z'";
private static String formatIso8601Date(Date date) {
    SimpleDateFormat df = new SimpleDateFormat(ISO8601_DATE_FORMAT);
    df.setTimeZone(new SimpleTimeZone(0, "GMT"));
    return df.format(date);
}
```

3. Construct the canonicalized query string.

```
final String HTTP_METHOD = "GET";
Map parameters = new HashMap();
// Specify request parameters.
parameters.put("Action", "DescribeDedicatedHosts");
parameters.put("Version", "2014-05-26");
parameters.put("AccessKeyId", "testid");
parameters.put("Timestamp", formatIso8601Date(new Date()));
parameters.put("SignatureMethod", "HMAC-SHA1");
parameters.put("SignatureVersion", "1.0");
parameters.put("SignatureNonce", UUID.randomUUID().toString());
parameters.put("Format", "XML");
// Sort the request parameters.
String[] sortedKeys = parameters.keySet().toArray(new String[0]);
Arrays.sort(sortedKeys);
final String SEPARATOR = "&";
//Construct a stringToSign string.
StringBuilder stringToSign = new StringBuilder();
stringToSign.append(HTTP_METHOD).append(SEPARATOR);
stringToSign.append(percentEncode("/")).append(SEPARATOR);
StringBuilder canonicalizedQueryString = new StringBuilder();
for(String key : sortedKeys) {
    // Encode the key and value.
    canonicalizedQueryString.append("&")
        .append(percentEncode(key)).append("=")
        .append(percentEncode(parameters.get(key)));
}
// Encode the canonicalized query string.
stringToSign.append(percentEncode(
    canonicalizedQueryString.toString().substring(1)));
```

4. Calculate the signature. If `AccessKeySecret` is set to `testsecret`, the key used for calculation is

testsecret& . The calculated signature is OLeaidS1JvxuMvnyH0Wuj%2BuX5qY%3D .

```
//The following sample code shows how to calculate the signature:
final String ALGORITHM = "HmacSHA1";
final String ENCODING = "UTF-8";
key = "testsecret&";
Mac mac = Mac.getInstance(ALGORITHM);
mac.init(new SecretKeySpec(key.getBytes(ENCODING), ALGORITHM));
byte[] signData = mac.doFinal(stringToSign.getBytes(ENCODING));
String signature = new String(Base64.encodeBase64(signData));
```

Encode the Signature parameter based on the [RFC 3986](#) specification. Add the Signature parameter to the URL. You can then obtain the following new URL:

```
http://ecs.aliyuncs.com/?SignatureVersion=1.0&Action=DescribeDedicatedHosts&Format=XML&SignatureNonce=3e
e8c1b8-xxxx-xxxx-xxxxx-xxxxx&Version=2014-05-26&AccessKeyId=testid&Signature=OLeaidS1JvxuMvnyH0Wuj%2Bu
X5qY%3D&SignatureMethod=HMAC-SHA1&Timestamp=2016-02-23T12%253A46%253A24Z
```

5. Send HTTP requests by using a browser, cURL, or wget.

By default, the response is in the following XML format: If you set Format to `JSON` , then the response is in the JSON format. For more information, see [Responses](#).

```
<DescribeDedicatedHostsResponse>
  <PageNumber>1</PageNumber>
  <DedicatedHosts>
    <DedicatedHost>
      <DedicatedHostId>dh-2xxxxxxxxxxxx</DedicatedHostId>
      <ChargeType>PostPaid</ChargeType>
      <Description/>
      <ResourceGroupId/>
      <SupportedInstanceTypeFamilies>
        <SupportedInstanceTypeFamily>ecs.se1ne</SupportedInstanceTypeFamily>
      </SupportedInstanceTypeFamilies>
      <Instances/>
      <Cores>32</calCores>
      <ZoneId>cn-beijing-c</ZoneId>
      <CreationTime>2018-08-13T07:59Z</CreationTime>
      <Sockets>2</Sockets>
      <Status>Available</Status>
      <DedicatedHostType>ddh.se1ne</DedicatedHostType>
      <RegionId>cn-beijing</RegionId>
      <DedicatedHostName>myDDH</DedicatedHostName>
      <SaleCycle/>
      <AutoReleaseTime/>
      <Capacity>
        <AvailableVcpu>56</AvailableVcpu>
        <TotalMemory>448.0</TotalMemory>
        <TotalVcpu>56</TotalVcpu>
        <AvailableLocalStorage>0</AvailableLocalStorage>
```



```
<TotalLocalStorage>0</TotalLocalStorage>
<LocalStorageCategory/>
<AvailableMemory>448.0</AvailableMemory>
</Capacity>
<OperationLocks/>
<MachineId>d7xxxxxxxxxxxxxxxxdb</MachineId>
<ExpiredTime>2999-09-08T16:00Z</ExpiredTime>
</DedicatedHost>
<DedicatedHost>
  <DedicatedHostId>dh-2xxxxxxxxxxxx</DedicatedHostId>
  <ChargeType>PostPaid</ChargeType>
  <Description/>
  <ResourceGroupId/>
  <SupportedInstanceTypeFamilies>
    <SupportedInstanceTypeFamily>ecs.se1ne</SupportedInstanceTypeFamily>
  </SupportedInstanceTypeFamilies>
  <Instances/>
  <Cores>32</Cores>
  <ZoneId>cn-beijing-c</ZoneId>
  <CreationTime>2018-08-13T07:59Z</CreationTime>
  <Sockets>2</Sockets>
  <Status>Available</Status>
  <DedicatedHostType>ddh.se1ne</DedicatedHostType>
  <RegionId>cn-beijing</RegionId>
  <DedicatedHostName>myDDH</DedicatedHostName>
  <SaleCycle/>
  <AutoReleaseTime/>
  <Capacity>
    <AvailableVcpu>56</AvailableVcpu>
    <TotalMemory>448.0</TotalMemory>
    <TotalVcpu>56</TotalVcpu>
    <AvailableLocalStorage>0</AvailableLocalStorage>
    <TotalLocalStorage>0</TotalLocalStorage>
    <LocalStorageCategory/>
    <AvailableMemory>448.0</AvailableMemory>
  </Capacity>
  <OperationLocks/>
  <MachineId>fxxxxxxxxxxxxxxxx6ca6</MachineId>
  <ExpiredTime>2999-09-08T16:00Z</ExpiredTime>
</DedicatedHost>
</DedicatedHosts>
<TotalCount>2</TotalCount>
<PageSize>10</PageSize>
<RequestId>C9E9EA51-6B74-409E-BA40-107126A200D4</RequestId>
</DescribeDedicatedHostsResponse>
```

6.RAM authentication

Before you initiate Dedicated Host (DDH) API requests as a RAM user, you must grant the RAM user the corresponding permissions by using your Alibaba Cloud account. You must create an authorization policy and attach the policy to the RAM user. In the policy, you need to use an Alibaba Cloud Resource Name (ARN) to specify the resource that you want the RAM user to access. The following table lists the ARNs of DDH resources.

Resource type	ARN
AllocateDedicatedHosts	acs:ecs:\$regionid:\$accountid:ddh/*
DescribeDedicatedHosts	acs:ecs:\$regionid:\$accountid:ddh/\$dedicatedhostid
DescribeDedicatedHostTypes	No authentication is required.
DescribeDedicatedHostAutoRenew	acs:ecs:\$regionid:\$accountid:ddh/\$dedicatedhostid
ModifyDedicatedHostAttribute	acs:ecs:\$regionid:\$accountid:ddh/\$dedicatedhostid
ModifyDedicatedHostAutoReleaseTime	acs:ecs:\$regionid:\$accountid:ddh/\$dedicatedhostid
ModifyDedicatedHostAutoRenewAttribute	acs:ecs:\$regionid:\$accountid:ddh/\$dedicatedhostid
ModifyInstanceDeployment	acs:ecs:\$regionid:\$accountid:instance/\$instanceid
	acs:ecs:\$regionid:\$accountid:ddh/\$dedicatedhostid
RenewDedicatedHost	acs:ecs:\$regionid:\$accountid:ddh/\$dedicatedhostid
ReleaseDedicatedHosts	acs:ecs:\$regionid:\$accountid:ddh/\$dedicatedhostid

7.AllocateDedicatedHosts

You can call this operation to create one or more pay-as-you-go or subscription dedicated hosts. A dedicated host provides a dedicated physical server for a single tenant. You can create ECS instances on a dedicated host and obtain the attributes of the physical server.

Description

Before you create a dedicated host, you can call the [DescribeAvailableResource](#) operation to view the available resources in the specified region or zone.

You will be charged when you create a dedicated host. We recommend that you understand the billing methods of resources in advance. For more information, see [Billing overview](#).

- You can create a maximum of 100 pay-as-you-go or subscription dedicated hosts at a time.
- After you create a dedicated host, you can use its ID that is returned by the system as the request parameter to call the [DescribeDedicatedHosts](#) operation to query the status of the dedicated host.
- After you submit a request to create a dedicated host, an error is returned if a specified parameter value is invalid or the requested resources are insufficient. For more information about error reasons, see the "Error codes" section.
- After a dedicated host is created, you can call the [ModifyInstanceDeployment](#) operation to migrate ECS instances from a shared host to the dedicated host. You can also migrate ECS instances from another dedicated host to the created one.


Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). [OpenAPI Explorer](#) dynamically generates the sample code of the operation for different SDKs.


Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	AllocateDedicatedHosts	The operation that you want to perform. Set the value to AllocateDedicatedHosts.
DedicatedHostType	String	Yes	ddh.c5	The type of the dedicated host. You can call the DescribeDedicatedHostTypes operation to query the most recent list of dedicated host types.
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host. You can call the DescribeRegions operation to query the most recent region list.
Tag.N.Key	String	No	Environment	The key of tag N of the dedicated host. Valid values of N: 1 to 20. It cannot be an empty string. The tag key can be up to 128 characters in length and cannot contain http:// or https://. It cannot start with acs: or aliyun.

Parameter	Type	Required	Example	Description
Tag.N.Value	String	No	Production	The value of tag N of the dedicated host. Valid values of N: 1 to 20. It can be an empty string. The tag value can be up to 128 characters in length and cannot contain http:// or https://. It cannot start with acs:.
ResourceGroupId	String	No	rg-bp67acfmxazb4ph** *	The ID of the resource group to which the dedicated host belongs.
ZoneId	String	No	cn-hangzhou-f	The zone ID of the dedicated host. This parameter is empty by default. If you do not specify this parameter, the system automatically selects a zone.
DedicatedHostName	String	No	myDDH	The name of the dedicated host. The name must be 2 to 128 characters in length. It must start with a letter and cannot start with http:// or https://. It can contain letters, digits, colons (:), underscores (_), and hyphens (-).
ActionOnMaintenance	String	No	Migrate	The policy used to migrate the instances from the dedicated host when the dedicated host fails or needs to be repaired online. Valid values: <ul style="list-style-type: none"> • Migrate: Instances are migrated to another physical server and restarted. If the dedicated host is attached with disks that are not local disks, the default value is Migrate. • Stop: Instances on the dedicated host are stopped. If the dedicated host cannot be repaired, the instances are migrated to another physical server and restarted. If the dedicated host is attached with local disks, the default value is Stop.
NetworkAttributes.SlbUdpTimeout	Integer	No	60	The timeout period for a UDP session between Server Load Balancer (SLB) and the dedicated host. Unit: seconds. Valid values: 15 to 310.

Parameter	Type	Required	Example	Description
NetworkAttributes.UdpTimeout	Integer	No	60	The timeout period for a UDP session between a user and an Alibaba Cloud service on the dedicated host. Unit: seconds. Valid values: 15 to 310.
Description	String	No	This-is-my-DDH	The description of the dedicated host. The description must be 2 to 256 characters in length and cannot start with http:// or https://.
AutoPlacement	String	No	off	<p>Specifies whether to add the dedicated host to the resource pool for automatic deployment. If you create an instance on a dedicated host without specifying the DedicatedHostId parameter, Alibaba Cloud automatically selects a dedicated host from the resource pool for the instance. For more information, see Automatic deployment. Valid values:</p> <ul style="list-style-type: none"> on: The dedicated host is added to the resource pool for automatic deployment. off: The dedicated host is not added to the resource pool for automatic deployment. <p>Default value: on.</p> <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 5px; margin-top: 10px;"> <p> Note If you do not want to add the dedicated host to the automatic deployment resource pool, set this parameter to off.</p> </div>
ChargeType	String	No	PrePaid	<p>The billing method of the dedicated host. Default value: PostPaid. Valid values:</p> <ul style="list-style-type: none"> PrePaid: subscription. If you set this parameter to PrePaid, make sure that you have sufficient credit. Otherwise, InvalidPayMethod is returned. PostPaid: pay-as-you-go.
Quantity	Integer	No	1	The quantity of dedicated hosts that you want to create. Valid values: 1 to 100. Default value: 1.

Parameter	Type	Required	Example	Description
Period	Integer	No	6	<p>The subscription period of the dedicated host. The <code>Period</code> parameter takes effect and is required only when the <code>ChargeType</code> parameter is set to <code>PrePaid</code>. Valid values:</p> <ul style="list-style-type: none"> If the <code>PeriodUnit</code> parameter is set to <code>Month</code>, valid values are 1, 2, 3, 4, 5, 6, 7, 8, and 9. If the <code>PeriodUnit</code> parameter is set to <code>Year</code>, valid values are 1, 2, 3, 4, and 5.
PeriodUnit	String	No	Month	<p>The unit of the subscription period of the dedicated host. Valid values:</p> <ul style="list-style-type: none"> Month Year <p>Default value: Month.</p>
AutoRenew	Boolean	No	false	<p>Specifies whether to automatically renew the subscription dedicated host.</p> <p>Note The <code>AutoRenew</code> parameter takes effect only when the <code>ChargeType</code> parameter is set to <code>PrePaid</code>.</p> <p>Default value: false.</p>
AutoRenewPeriod	Integer	No	1	<p>The auto-renewal period of the dedicated host. Unit: months. Valid values: 1, 2, 3, 6, and 12.</p> <p>Note The <code>AutoRenewPeriod</code> parameter takes effect and is required only when the <code>AutoRenew</code> parameter is set to true.</p>

Parameter	Type	Required	Example	Description
AutoReleaseTime	String	No	2019-08-21T12:30:24Z	<p>The automatic release time of the dedicated host. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.</p> <div style="border: 1px solid #add8e6; padding: 5px;"> <p> Note</p> <ul style="list-style-type: none"> • It must be at least half an hour later than the current time. • It cannot be more than three years later than the current time. • If the value of the seconds (ss) is not 00, it is automatically set to 00. </div>
ClientToken	String	No	123e4567-e89b-12d3-a456-426655440000	<p>The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must ensure that it is unique among different requests. The ClientToken value can only contain ASCII characters and cannot exceed 64 characters in length. For more information, see How to ensure idempotence.</p>

Response parameters

Parameter	Type	Example	Description
DedicatedHostIdSets	List	"DedicatedHostIdSets": {"DedicatedHostId": ["dh-bp67acfmxab4ph****", "dh-bp67acfmxab4pi****"]}	The IDs of the dedicated hosts.
RequestId	String	E2A664A6-2933-4C64-88AE-5033D003EADF	The ID of the request.

Examples

Sample requests

```
https://ecs.aliyuncs.com/?Action=AllocateDedicatedHosts
&RegionId=cn-hangzhou
&DedicatedHostType=ddh.sn1ne
&Quantity=2
&ChargeType=PostPaid
&ClientToken=123e4567-e89b-12d3-a456-426655440000
&<Common request parameters>
```

Sample success responses

XML format

```
<AllocateDedicatedHostsResponse>
  <RequestId>E2A664A6-2933-4C64-88AE-5033D003EADF</RequestId>
  <DedicatedHostIdSets>
    <DedicatedHostId>dh-bp67acfmxab4ph***</DedicatedHostId>
    <DedicatedHostId>dh-bp67acfmxab4pi***</DedicatedHostId>
  </DedicatedHostIdSets>
</AllocateDedicatedHostsResponse>
```

JSON format

```
{
  "RequestId": "E2A664A6-2933-4C64-88AE-5033D003EADF",
  "DedicatedHostIdSets": {
    "DedicatedHostId": [
      "dh-bp67acfmxab4ph***",
      "dh-bp67acfmxab4pi***"
    ]
  }
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidInstanceType.ValueUnauthorized	The specified InstanceType is not authorized.	The error message returned because you are not authorized to use the specified instance type.
400	InvalidDescription.Malformed	The specified parameter "Description" is not valid.	The error message returned because the specified Description parameter is invalid. The description must be 2 to 256 characters in length and cannot start with http:// or https://.
403	OperationDenied	The creation of Host to the specified Zone is not allowed.	The error message returned because you are not authorized to create a dedicated host in the specified zone.
403	OperationDenied.NoStock	The requested resource is sold out in the specified zone; try other types of resources or other regions and zones.	The error message returned because the requested resources are insufficient.
500	InternalServerError	The request processing has failed due to some unknown error.	The error message returned because an internal error has occurred. Try again later. If the problem persists, submit a ticket.

HTTP status code	Error code	Error message	Description
403	OperationDenied	Sales of this resource are temporarily suspended in the specified region; please try again later.	The error message returned because the requested resource is unavailable in the specified region. Try again later.
400	InvalidParameter.Conflict	The specified region and cluster do not match.	The error message returned because the specified region and the specified cluster do not correspond to each other.
403	NodeControllerUnavailable	The Node Controller is temporarily unavailable.	The error message returned because the node controller is unavailable.
404	OperationDenied	Another Host has been creating	The error message returned because another dedicated host is being created.
403	OperationDenied	The resource is out of usage.	The error message returned because the instance is not in the running state. Start the instance or check whether the operation is valid.
404	PaymentMethodNotFound	No payment method has been registered on the account.	The error message returned because you have not registered a payment method for your account.
404	InvalidDedicatedHostName.Malformed	The specified parameter DedicatedHostName is not valid.	The error message returned because the specified DedicatedHostName parameter is invalid.
403	InvalidParameter.ResourceOwnerAccount	ResourceOwnerAccount is Invalid.	The error message returned because the specified ResourceOwnerAccount parameter is invalid.
403	InvalidUserData.Forbidden	User not authorized to input the parameter "UserData", please apply for permission "UserData"	The error message returned because you are not authorized to manage user data. Apply for the permission first.
403	Zone.NotOpen	The specified zone is not granted to you to buy resources yet.	The error message returned because you are not authorized to purchase resources in the specified zone.
403	Zone.NotOnSale	The specified zone is not available for purchase.	The error message returned because the requested instance resources are unavailable in the specified zone. Change the instance type or select a different zone.
403	InvalidResourceType.NotSupported	This resource type is not supported; please try other resource types.	The error message returned because the specified resource type is not supported. Try another resource type.

HTTP status code	Error code	Error message	Description
403	InvalidDedicatedHostType.ValueNotSupported	The specified DedicatedHostType does not exist or beyond the permitted range.	The error message returned because the specified DedicatedHostType parameter does not exist.
403	InvalidDedicatedHostType.ZoneNotSupported	The specified zone does not support this dedicatedHostType.	The error message returned because the specified dedicated host type is not supported in the specified zone.
400	InvalidAutoRenewPeriod.ValueNotSupported	The specified autoRenewPeriod is not valid.	The error message returned because the specified AutoRenewPeriod parameter is invalid.
403	InvalidUserData.Base64FormatInvalid	The specified UserData is not valid	The error message returned because the specified UserData parameter is invalid.
400	InvalidTagKey.Malformed	The specified Tag.n.Key is not valid.	The error message returned because the specified Tag.N.Key parameter is invalid.
400	InvalidDedicatedHostType.ValueNotSupported	%s	The error message returned because the specified DedicatedHostType parameter is invalid.
400	RegionUnauthorized	%s	The error message returned because you are not authorized to create dedicated hosts in the specified region.
500	InternalServerError	%s	The error message returned because an internal error has occurred.
400	Zone.NotOnSale	%s	The error message returned because no resources are available in the specified zone.
400	OperationDenied	The specified DedicatedHostType or Zone is not available or not authorized.	The error message returned because the specified type of dedicated host or zone is unavailable or you are not authorized to manage the resources.
400	InvalidPeriodUnit.ValueNotSupported	The specified parameter PeriodUnit is not valid.	The error message returned because the specified PeriodUnit parameter is invalid.
400	InvalidTagValue.Malformed	The specified Tag.n.Value is not valid.	The error message returned because the specified Tag.N.Value parameter is invalid.
403	InvalidParameter.NotMatch	%s	The error message returned because the specified parameter is invalid. Check whether the parameter conflicts with another parameter.

HTTP status code	Error code	Error message	Description
403	Account.Arrearage	Your account has been in arrears.	The error message returned because your account balance is insufficient. You must top up your account before proceeding.
400	QuotaExceed.Afterpay DedicatedHost	The maximum number of Pay-As-You-Go DedicatedHosts is exceeded: %s	The error message returned because the available pay-as-you-go dedicated hosts are insufficient. Reduce the number of dedicated hosts to be created.
400	InvalidChargeType.ValueNotSupported	ChargeType is not valid	The error message returned because the specified ChargeType parameter is invalid.
400	InvalidParameter.SlbUdpTimeout	The specified value is invalid.	The error message returned because the specified NetworkAttributes.SlbUdpTimeout parameter is invalid.
400	InvalidParameter.UdpTimeout	The specified value is invalid.	The error message returned because the specified NetworkAttributes.UdpTimeout parameter is invalid.
400	Duplicate.TagKey	The Tag.N.Key contain duplicate key.	The error message returned because the specified tag key already exists. Tag keys must be unique.

For a list of error codes, visit the [API Error Center](#).

8.DescribeDedicatedHostTypes

You can call this operation to query the dedicated host types supported in a region, or the ECS instance families that are supported by a specific dedicated host type.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDedicatedHostTypes	The operation that you want to perform. Set the value to DescribeDedicatedHostTypes.
RegionId	String	Yes	cn-hangzhou	The ID of the region. You can call the DescribeRegions operation to query the most recent region list.
DedicatedHostType	String	No	ddh.sn1ne	The dedicated host type. For more information, see Dedicated host types .
SupportedInstanceTypeFamily	String	No	ecs.sn1ne	The ECS instance families supported by the dedicated host type.

Response parameters

Parameter	Type	Example	Description
DedicatedHostTypes	Array		The information about dedicated host types.
DedicatedHostType			
Cores	Integer	2	The number of cores in a physical CPU.
DedicatedHostType	String	ddh.sn1ne	The dedicated host type. You can submit a ticket to request more dedicated host types.
GPUSpec	String	gpu	
LocalStorageAmount	Integer	0	The number of local disks on a dedicated host.
LocalStorageCapacity	Long	0	The capacity of a local disk. Unit: GiB.
LocalStorageCategory	String	local	The category of the local disks.

Parameter	Type	Example	Description
MemorySize	Float	112.0	The size of the memory. Unit: GiB.
PhysicalGpus	Integer	2	
Sockets	Integer	2	
SupportedInstanceTypeFamilies	List	ecs.sn1ne	The list of ECS instance families supported by the dedicated host type.
SupportedInstanceTypesList	List	ecs.sn1ne.large	The list of ECS instance types supported by the dedicated host type.
TotalVcpus	Integer	56	The total number of vCPUs.
TotalVgpus	Integer	10	
RequestId	String	5FE5FF06-3A33-4658-8495-6445FC54E327	The ID of the request.

Examples

Sample requests

```
https://ecs.aliyuncs.com/?Action=DescribeDedicatedHostTypes
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeDedicatedHostTypesResponse>
  <DedicatedHostTypes>
    <DedicatedHostType>
      <LocalStorageAmount>0</LocalStorageAmount>
      <Sockets>2</Sockets>
      <DedicatedHostType>ddh.sn1ne</DedicatedHostType>
      <LocalStorageCapacity>0</LocalStorageCapacity>
      <SupportedInstanceTypeFamilies>
        <SupportedInstanceTypeFamily>ecs.sn1ne</SupportedInstanceTypeFamily>
      </SupportedInstanceTypeFamilies>
      <MemorySize>112.0</MemorySize>
      <Cores>32</Cores>
      <TotalVcpus>56</TotalVcpus>
      <LocalStorageCategory></LocalStorageCategory>
    </DedicatedHostType>
    <DedicatedHostType>
      <LocalStorageAmount>0</LocalStorageAmount>
      <Sockets>2</Sockets>
      <DedicatedHostType>ddh.sn2ne</DedicatedHostType>
      <LocalStorageCapacity>0</LocalStorageCapacity>
      <SupportedInstanceTypeFamilies>
        <SupportedInstanceTypeFamily>ecs.sn2ne</SupportedInstanceTypeFamily>
      </SupportedInstanceTypeFamilies>
      <MemorySize>224.0</MemorySize>
      <Cores>32</Cores>
      <TotalVcpus>56</TotalVcpus>
      <LocalStorageCategory></LocalStorageCategory>
    </DedicatedHostType>
  </DedicatedHostTypes>
  <RequestId>5FE5FF06-3A33-4658-8495-6445FC54E327</RequestId>
</DescribeDedicatedHostTypesResponse>
```

JSON format

```
{
  "DedicatedHostTypes":{
    "DedicatedHostType":[
      {
        "LocalStorageAmount":0,
        "Sockets":2,
        "DedicatedHostType":"ddh.sn1ne",
        "LocalStorageCapacity":0,
        "SupportedInstanceTypeFamilies":{
          "SupportedInstanceTypeFamily":[
            "ecs.sn1ne"
          ]
        },
        "MemorySize":112,
        "Cores":32,
        "TotalVcpus":56,
        "LocalStorageCategory":""
      },
      {
        "LocalStorageAmount":0,
        "Sockets":2,
        "DedicatedHostType":"dh.c60m83.n1",
        "LocalStorageCapacity":0,
        "SupportedInstanceTypeFamilies":{
          "SupportedInstanceTypeFamily":[
            "ecs.n1"
          ]
        },
        "MemorySize":84,
        "Cores":32,
        "TotalVcpus":40,
        "LocalStorageCategory":""
      }
    ]
  },
  "RequestId":"9A0FE8A2-720C-45AE-B2D9-813060FCBBF5"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.DescribeDedicatedHosts

You can call this operation to query the details of one or more dedicated hosts, including the physical performance specifications, machine code, service status, and a list of created ECS instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDedicatedHosts	The operation that you want to perform. Set the value to DescribeDedicatedHosts.
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host. You can call the DescribeRegions operation to query the most recent region list.
ZoneId	String	No	cn-hangzhou-g	The zone ID of the dedicated host.
DedicatedHostIds	String	No	["dh-bp165p6xk2tlw61e**", "dh-bp1f9vxmno7emy96****"]	The list of dedicated host IDs. You can include up to 100 IDs in a single request. Separate multiple IDs with commas (.).
DedicatedHostName	String	No	MyDDHTestName	The name of the dedicated host.
Status	String	No	Available	The service status of the dedicated host. Valid values: <ul style="list-style-type: none"> Available: The dedicated host is available. UnderAssessment: The dedicated host has a potential failure and may fail when it is used. PermanentFailure: The dedicated host has a permanent failure and cannot be used. Default value: Available
DedicatedHostType	String	No	ddh.g5	The type of the dedicated host.
PageNumber	Integer	No	1	The number of the page to return. Pages start from page 1. Default value: 1

Parameter	Type	Required	Example	Description
PageSize	Integer	No	10	The number of entries to return on each page. Valid values: 1 to 100. Default value: 10
Tag.N.Key	String	No	TestKey	The key of tag N of the dedicated host. Valid values of N: 1 to 20. The tag key cannot be an empty string. It can be up to 128 characters in length and cannot contain http:// or https://. It cannot start with acs: or aliyun.
Tag.N.Value	String	No	TestValue	The value of tag N of the dedicated host. Valid values of N: 1 to 20. The tag value can be an empty string. It can be up to 128 characters in length and cannot contain http:// or https://. It cannot start with acs: or aliyun.

Response parameters

Parameter	Type	Example	Description
DedicatedHosts	Array		The list of the dedicated hosts.
DedicatedHost			
ActionOnMaintenance	String	Migrate	The policy used to migrate the instances from the dedicated host when the dedicated host fails or needs to be repaired online. Valid values: <ul style="list-style-type: none"> • Migrate: Instances are migrated to another physical server and restarted. If the dedicated host is attached with cloud disks, the default value is Migrate. • Stop: Instances on the dedicated host are stopped. If the dedicated host cannot be repaired, the instances are migrated to another physical server and restarted. If the dedicated host is attached with local disks, the default value is Stop.
AutoPlacement	String	on	Indicates whether the dedicated host is added to the resource pool for automatic deployment. Valid values: <ul style="list-style-type: none"> • on: The dedicated host is added to the resource pool for automatic deployment. • off: The dedicated host is not added to the resource pool for automatic deployment. For more information about automatic deployment, see Automatic deployment .

Parameter	Type	Example	Description
AutoReleaseTime	String	2017-01-01T12:00Z	The time scheduled for a created ECS instance to be automatically released. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mmZ format. The time is displayed in UTC.
Capacity	Struct		The collection of performance specifications of the dedicated host.
AvailableLocalStorage	Integer	65	The available space of the local disk. Unit: GiB.
AvailableMemory	Float	25	The available space of memory. Unit: GiB.
AvailableVcpus	Integer	5	The number of available vCPUs.
AvailableVgpus	Integer	2	The number of available vGPUs.
LocalStorageCategory	String	i2	The category of the local disk.
TotalLocalStorage	Integer	512	The total capacity of the local disk. Unit: GiB.
TotalMemory	Float	1024	The total capacity of memory. Unit: GiB.
TotalVcpus	Integer	56	The total number of vCPUs.
TotalVgpus	Integer	10	The total number of vGPUs.
ChargeType	String	Prepaid	The billing method of the dedicated host.
Cores	Integer	3	The number of physical cores in a CPU.
CreationTime	String	2018-01-01T12:00Z	The time when the dedicated host was created. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mmZ format. The time is displayed in UTC.
DedicatedHostId	String	dh-bp165p6xk2tlw61e****	The ID of the dedicated host.
DedicatedHostName	String	MyDDHTestName	The name of the dedicated host.
DedicatedHostType	String	ddh.g5	The type of the dedicated host.
Description	String	this-is-my-DDH	The description of the dedicated host.

Parameter	Type	Example	Description
ExpiredTime	String	2019-01-01T12:00Z	The expiration time of the subscription dedicated host. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mmZ format. The time is displayed in UTC.
GPUSpec	String	gpu	The GPU model.
Instances	Array		The list of the ECS instances that are deployed on the dedicated host.
Instance			
InstanceId	String	i-bp14ot0ykf8w13a1****	The ID of the ECS instance that is deployed on the dedicated host.
InstanceType	String	ecs.g5.large	The instance type of the ECS instance that is deployed on the dedicated host.
MachineId	String	12aaa123456ff19dec12345d3026e****	The machine code of the dedicated host.
NetworkAttributes	Struct		The network attributes of the dedicated host.
SlbUdpTimeout	Integer	60	The timeout period of the UDP session that is established to SLB.
UdpTimeout	Integer	60	The timeout period of the UDP session.
OperationLocks	Array		The reasons for locking the resources of the dedicated host.
OperationLock			
LockReason	String	financial	The reason for locking the resource of the dedicated host. Example of valid values: financial. It indicates that the resource was locked due to overdue payments.
PhysicalGpus	Integer	10	The number of physical GPUs.
RegionId	String	cn-hangzhou	The region ID of the dedicated host.
ResourceGroupId	String	rg-aek3b6jzp66****	The ID of the resource group to which the dedicated host belongs.

Parameter	Type	Example	Description
SaleCycle	String	Month	The unit of the subscription billing method. Valid values: <ul style="list-style-type: none"> Month Year
Sockets	Integer	5	The number of physical CPUs.
Status	String	Available	The service status of the dedicated host. Valid values: <ul style="list-style-type: none"> Available UnderAssessment PermanentFailure
SupportedCustomInstanceTypeFamilies	List	ecs.ddh6s.custom	The list of custom instance families supported by the dedicated host.
SupportedInstanceTypeFamilies	List	ecs.g5	The list of ECS instance families supported by the dedicated host.
SupportedInstanceTypesList	List	ecs.g5.large	The list of ECS instance types supported by the dedicated host.
Tags	Array		The tags of the dedicated host.
Tag			
TagKey	String	TestKey	The tag key of the dedicated host.
TagValue	String	TestValue	The tag value of the dedicated host.
ZoneId	String	cn-hangzhou-g	The zone ID of the dedicated host.
PageNumber	Integer	5	The page number of the returned page.
PageSize	Integer	1	The number of entries returned per page.
RequestId	String	7654525A-9964-4ABB-8BCD-98F8835E809A	The ID of the request.
TotalCount	Integer	3	The total number of dedicated hosts.

Examples

Sample requests

```
https://ecs.aliyuncs.com/?Action=DescribeDedicatedHosts
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeDedicatedHostsResponse>
  <TotalCount>1</TotalCount>
  <DedicatedHosts>
    <DedicatedHost>
      <PhysicalGpus>0</PhysicalGpus>
      <MachineId>12aaa123456ff19dec12345d3026e****</MachineId>
      <DedicatedHostId>dh-bp165p6xk2tlw61e****</DedicatedHostId>
      <Description></Description>
      <ResourceGroupId></ResourceGroupId>
      <SupportedCustomInstanceTypeFamilies>
    </SupportedCustomInstanceTypeFamilies>
      <NetworkAttributes></NetworkAttributes>
      <GPUSpec></GPUSpec>
      <DedicatedHostName>MyDDHTestName</DedicatedHostName>
      <Capacity>
        <AvailableVgpus>0</AvailableVgpus>
        <LocalStorageCategory></LocalStorageCategory>
        <TotalVgpus>0</TotalVgpus>
        <TotalMemory>768</TotalMemory>
        <AvailableMemory>768</AvailableMemory>
        <AvailableVcpus>104</AvailableVcpus>
        <TotalVcpus>104</TotalVcpus>
        <AvailableLocalStorage>0</AvailableLocalStorage>
        <TotalLocalStorage>0</TotalLocalStorage>
      </Capacity>
      <ExpiredTime>2999-09-08T16:00Z</ExpiredTime>
      <SaleCycle></SaleCycle>
      <Status>Available</Status>
      <ZoneId>cn-hangzhou-g</ZoneId>
      <AutoPlacement>on</AutoPlacement>
      <DedicatedHostType>ddh.r6</DedicatedHostType>
      <OperationLocks>
    </OperationLocks>
      <Cores>52</Cores>
      <Instances>
    </Instances>
      <Sockets>2</Sockets>
      <ChargeType>PostPaid</ChargeType>
      <SupportedInstanceTypeFamilies>
        <SupportedInstanceTypeFamily>ecs.c6</SupportedInstanceTypeFamily>
```

```
<SupportedInstanceTypeFamily>ecs.g6</SupportedInstanceTypeFamily>
<SupportedInstanceTypeFamily>ecs.ic6</SupportedInstanceTypeFamily>
<SupportedInstanceTypeFamily>ecs.r6</SupportedInstanceTypeFamily>
</SupportedInstanceTypeFamilies>
<ActionOnMaintenance>Migrate</ActionOnMaintenance>
<CreationTime>2020-04-15T07:12Z</CreationTime>
<RegionId>cn-hangzhou</RegionId>
<SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.13xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.16xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.4xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.8xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.6xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.2xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.large</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.3xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.26xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.4xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.8xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.6xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.2xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.large</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.6xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.16xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.26xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.13xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.2xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.16xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.8xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.large</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.13xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.4xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.3xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.3xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.26xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.3xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.8xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.2xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.large</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.6xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.4xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6-dbeni.8xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6-nfveni.large</SupportedInstanceTypesList>
```

```

    </SupportedInstanceTypesList>
    <AutoReleaseTime></AutoReleaseTime>
  </DedicatedHost>
</DedicatedHosts>
<RequestId>7654525A-9964-4ABB-8BCD-98F8835E809A</RequestId>
<PageSize>10</PageSize>
<PageNumber>1</PageNumber>
</DescribeDedicatedHostsResponse>

```

JSON format

```

{
  "TotalCount": 1,
  "DedicatedHosts": {
    "DedicatedHost": [
      {
        "PhysicalGpus": 0,
        "MachineId": "12aaa123456ff19dec12345d3026e****",
        "DedicatedHostId": "dh-bp165p6xk2tlw61e****",
        "Description": "",
        "ResourceGroupId": "",
        "SupportedCustomInstanceTypeFamilies": {
          "SupportedCustomInstanceTypeFamily": []
        },
        "NetworkAttributes": {},
        "GPUSpec": "",
        "DedicatedHostName": "MyDDHTestName",
        "Capacity": {
          "AvailableVgpus": 0,
          "LocalStorageCategory": "",
          "TotalVgpus": 0,
          "TotalMemory": 768,
          "AvailableMemory": 768,
          "AvailableVcpus": 104,
          "TotalVcpus": 104,
          "AvailableLocalStorage": 0,
          "TotalLocalStorage": 0
        },
        "ExpiredTime": "2999-09-08T16:00Z",
        "SaleCycle": "",
        "Status": "Available",
        "ZoneId": "cn-hangzhou-g",
        "AutoPlacement": "on",
        "DedicatedHostType": "ddh.r6",
        "OperationLocks": {
          "OperationLock": []
        }
      }
    ]
  }
}

```

```
"Cores": 52,
"Instances": {
  "Instance": []
},
"Sockets": 2,
"ChargeType": "PostPaid",
"SupportedInstanceTypeFamilies": {
  "SupportedInstanceTypeFamily": [
    "ecs.c6",
    "ecs.g6",
    "ecs.ic6",
    "ecs.r6"
  ]
},
"ActionOnMaintenance": "Migrate",
"CreationTime": "2020-04-15T07:12Z",
"RegionId": "cn-hangzhou",
"SupportedInstanceTypesList": {
  "SupportedInstanceTypesList": [
    "ecs.g6.13xlarge",
    "ecs.g6.16xlarge",
    "ecs.g6.4xlarge",
    "ecs.g6.8xlarge",
    "ecs.g6.xlarge",
    "ecs.g6.6xlarge",
    "ecs.g6.2xlarge",
    "ecs.g6.large",
    "ecs.g6.3xlarge",
    "ecs.g6.26xlarge",
    "ecs.c6.4xlarge",
    "ecs.c6.8xlarge",
    "ecs.c6.6xlarge",
    "ecs.c6.2xlarge",
    "ecs.r6.large",
    "ecs.c6.xlarge",
    "ecs.r6.6xlarge",
    "ecs.r6.16xlarge",
    "ecs.r6.xlarge",
    "ecs.c6.26xlarge",
    "ecs.r6.13xlarge",
    "ecs.r6.2xlarge",
    "ecs.c6.16xlarge",
    "ecs.r6.8xlarge",
    "ecs.c6.large",
    "ecs.c6.13xlarge",
    "ecs.r6.4xlarge",
    "ecs.r6.3xlarge",
```



```

        "ecs.c6.3xlarge",
        "ecs.r6.26xlarge",
        "ecs.ic6.3xlarge",
        "ecs.ic6.8xlarge",
        "ecs.ic6.2xlarge",
        "ecs.ic6.xlarge",
        "ecs.ic6.large",
        "ecs.ic6.6xlarge",
        "ecs.ic6.4xlarge",
        "ecs.r6-dbeni.8xlarge",
        "ecs.g6-nfvenl.large"
    ]
},
"AutoReleaseTime": ""
}
]
},
"RequestId": "7654525A-9964-4ABB-8BCD-98F8835E809A",
"PageSize": 10,
"PageNumber": 1
}

```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidStatus.ValueNotSupported	The pecified dedicated host status is not supported.	The error message returned because the operation is not supported while the dedicated host is in the current state.
400	MissingParamter.RegionId	The regionId should not be null.	The error message returned because the required RegionId parameter is not specified.
403	InvalidDedicatedHostIds.Malformed	The amount of specified dedicatedHostIds exceeds the limit.	The error message returned because the number of dedicated host IDs specified by the DedicatedHostIds parameter exceeds the upper limit of 100.
400	InvalidParameter.DedicatedHostIds	The specified parameter dedicatedHostIds is not valid.	The error message returned because the specified DedicatedHostIds parameter is invalid.
400	InvalidRegion.NotFound	The specified parameter RegionId is not valid.	The error message returned because the specified RegionId parameter is invalid.
400	InvalidZone.NotFound	The specified parameter ZoneId is not valid.	The error message returned because the specified ZoneId parameter is invalid.

HTTP status code	Error code	Error message	Description
404	InvalidLockReason.NotFound	The specified LockReason is not found	The error message returned because the specified LockReason parameter does not exist.

For a list of error codes, visit the [API Error Center](#).

10.DescribeDedicatedHostAutoRenew

You can call this operation to query the auto-renewal status of one or more subscription dedicated hosts.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
DedicatedHostIds	String	Yes	dh-dedicatedhost1,dh-dedicatedhost2	The ID of the dedicated host. You can enter up to 100 dedicated host IDs in the list. Separate the IDs with commas (,).
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host.
Action	String	Yes	DescribeDedicatedHostAutoRenew	The operation that you want to perform. Set the value to DescribeDedicatedHostAutoRenew.

Response parameters

Parameter	Type	Example	Description
DedicatedHostRenewAttributes			An array of auto-renewal attributes for dedicated hosts.
AutoRenewEnabled	Boolean	true	Indicates whether auto-renewal is enabled.
DedicatedHostId	String	ddh-xxxxxxxxxxxxxxxxxxxxxx	The ID of the dedicated host.
Duration	Integer	0	The auto-renewal period.
PeriodUnit	String	Month	The unit of the auto-renewal period. Valid values: Week and Month

Parameter	Type	Example	Description
RenewalStatus	String	Normal	Indicates whether the subscription dedicated host is automatically renewed. Valid values: <ul style="list-style-type: none">• AutoRenewal: The cluster is automatically renewed.• Normal: The dedicated host is not automatically renewed but you will still receive notifications for renewals.• NotRenewal: Auto-renewal is disabled and no expiration notification is sent. You receive notifications for renewal 3 days before the expiration time of the dedicated host subscription. You can set the dedicated host that is not renewed to Normal and manually renew it by calling the RenewDedicatedHosts operation. Otherwise, you can renew it by setting this parameter to AutoRenewal.
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
https://ecs.aliyuncs.com/?Action=DescribeDedicatedHostAutoRenew
&RegionId=cn-hangzhou
&DedicatedHostIds=dh-dedicatedhost1,dh-dedicatedhost2
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeDedicatedHostAutoRenewResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
  <DedicatedHostRenewAttributes>
    <DedicatedHostRenewAttribute>
      <DedicatedHostId>dh-dedicatedhost1</DedicatedHostId>
      <Duration>0</Duration>
      <AutoRenewEnabled>false</AutoRenewEnabled>
      <PeriodUnit>Month</PeriodUnit>
      <RenewalStatus>Normal</RenewalStatus>
    </DedicatedHostRenewAttribute>
    <DedicatedHostRenewAttribute>
      <DedicatedHostId>dh-dedicatedhost2</DedicatedHostId>
      <Duration>1</Duration>
      <PeriodUnit>Month</PeriodUnit>
      <AutoRenewEnabled>true</AutoRenewEnabled>
      <RenewalStatus>AutoRenewal</RenewalStatus>
    </DedicatedHostRenewAttribute>
  </DedicatedHostRenewAttributes>
</DescribeDedicatedHostAutoRenewResponse>
```

JSON format

```
{
  "DedicatedHostIdRenewAttributes":{
    "DedicatedHostIdRenewAttribute":[
      {
        "RenewalStatus":"Normal",
        "DedicatedHostId":"dh-dedicatedhost1",
        "Duration":0,
        "AutoRenewEnabled":false,
        "PeriodUnit":"Month"
      },
      {
        "RenewalStatus":"AutoRenewal",
        "DedicatedHostId":"dh-dedicatedhost2",
        "Duration":1,
        "AutoRenewEnabled":true,
        "PeriodUnit":"Month"
      }
    ]
  },
  "RequestId":"04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	MissingParameter.DedicatedHostId	DedicatedHostId should not be null.	The error message returned because the host ID cannot be empty.
403	InvalidParameter.ToManyDedicatedHostIds	DedicatedHostId should be less than 100.	The error message returned because the number of dedicated host IDs specified in DedicatedHostIds exceeds the upper limit. DedicatedHostIds supports a maximum of 100 IDs.
403	InvalidParameter.InvalidDedicatedHostId	%s	The error message returned because the specified DedicatedHostId is invalid.
403	IncorrectDedicatedHostStatus	The current status of the resource does not support this operation.	The error message returned because this operation is not supported while the resource is in the current state.
403	ChargeTypeViolation	Pay-As-You-Go dedicated host do not support this operation.	The error message returned because the current operation is not supported for pay-as-you-go dedicated hosts.

For more information about error codes, see [API Error Center](#).

11.ModifyDedicatedHostAttribute

You can call this operation to modify some attributes of a dedicated host, such as the name, description, and instance migration policy that is applied when the dedicated host fails.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
DedicatedHostId	String	Yes	ddh-xxxxxxxxxxxxxxxxxx	The ID of the dedicated host.
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host. You can call the DescribeRegions operation to query the latest region list.
Action	String	Yes	ModifyDedicatedHostAttribute	The operation that you want to perform. Set this parameter to <code>ModifyDedicatedHostAttribute</code> .
ActionOnMaintenance	String	No	Migrate	<p>The policy used to migrate the instances from the dedicated host when the dedicated host fails or needs to be repaired online. Valid values:</p> <ul style="list-style-type: none"> Migrate: Instances are migrated to another physical server and restarted. Stop: Instances on the dedicated host are stopped. If the dedicated host cannot be repaired, the instances are migrated to another physical server and restarted. <p>If the dedicated host is attached with disks that are not local disks, the default value is <code>Migrate</code>.</p> <p>If the dedicated host is attached with local disks, the default value is <code>Stop</code>.</p>

Parameter	Type	Required	Example	Description
AutoPlacement	String	No	on	<p>Specifies whether the dedicated host is added to the resource pool for automatic deployment. If you do not specify the DedicatedHostId parameter when you create an instance on a dedicated host, Alibaba Cloud automatically selects a dedicated host from the resource pool to host the instance. Valid values:</p> <ul style="list-style-type: none"> on: The dedicated host is added to the resource pool for automatic deployment. off: The dedicated host is not added to the resource pool for automatic deployment. <p>For more information, see Features.</p>
DedicatedHostName	String	No	myDDH	The name of the dedicated host. It must be 2 to 128 characters in length. It must start with a letter but cannot start with http:// or https://. It can contain letters, numbers, colons (:), underscores (_), and hyphens (-).
Description	String	No	this-is-my-ddh	The description of the dedicated host. It must be 2 to 256 characters in length and cannot start with http:// or https://.
NetworkAttributes.SlbUdpTimeout	Integer	No	60	The duration of UDP timeout for sessions between Server Load Balancer (SLB) and the dedicated host. Unit: seconds. Valid values: 15 to 310.
NetworkAttributes.UdpTimeout	Integer	No	60	The duration of UDP timeout for sessions between users and instances on the dedicated host. Unit: seconds. Valid values: 15 to 310.

Response parameters

Parameter	Type	Example	Description
RequestId	String	2A4EA075-CB5B-41B7-B0EB-70D339F64DE7	The ID of the request.

Examples

Sample requests


```
http(s)://ecs.aliyuncs.com/? Action=ModifyDedicatedHostAttribute
&DedicatedHostId=ddh-xxxxxxxxxxxxxxxxxxx
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyDedicatedHostAttributeResponse>
  <RequestId>2A4EA075-CB5B-41B7-B0EB-70D339F64DE7</RequestId>
</ModifyDedicatedHostAttributeResponse>
```

JSON format

```
{
  "RequestId": "2A4EA075-CB5B-41B7-B0EB-70D339F64DE7"
}
```

Error codes

HTTP status code	Error code	Error message	Description
404	InvalidDedicatedHostId.NotFound	The specified DedicatedHostId does not exist.	The error message returned because the specified dedicated host ID does not exist.
400	InvalidDedicatedHostName.Malformed	The specified parameter DedicatedHostName is not valid.	The error message returned because the specified DedicatedHostName is invalid.
400	InvalidDescription.Malformed	The specified parameter Description is not valid.	The error message returned because the value of the Description parameter is invalid. The description must be 2 to 256 characters in length and cannot start with http:// or https://.
403	InvalidUser.Unauthorized	The user is not authorized	The error message returned because you are not authorized to perform this operation.
400	InvalidParameter.SlbUdpTimeout	The specified parameter is invalid.	The error message returned because the SlbUdpTimeout parameter is invalid.
400	InvalidParameter.UdpTimeout	The specified parameter is invalid.	The error message returned because the UdpTimeout parameter is invalid.

For more information about error codes, see [API Error Center](#).

12.ModifyDedicatedHostAutoRenewAttribute

You can call this operation to enable or disable auto-renewal for one or more subscription dedicated hosts.

Description

Subscription dedicated hosts are automatically renewed nine days before expiration. The automatic payment is deducted at 08:00:00 (UTC+8). If the automatic payment fails, the payment is deducted at the same time the next day. Automatic payment stops after the payment succeeds or after the dedicated host is expired and locked. Make sure that your account has sufficient balance or credit for the payment.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
DedicatedHostIds	String	Yes	ddh-xxxxxxxxxxxxxxxxxxx	The ID of the dedicated host. You can enter up to 100 subscription dedicated host IDs in the list. Separate multiple IDs with commas (,).
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host.
Action	String	Yes	ModifyDedicatedHostAutoRenewAttribute	The operation that you want to perform. Set the value to <code>ModifyDedicatedHostAutoRenewAttribute</code> .
AutoRenew	Boolean	No	false	Specifies whether to automatically renew the subscription dedicated host. Default value: false. Valid values: <ul style="list-style-type: none">true: The subscription dedicated host is automatically renewed.false: The subscription dedicated host is not automatically renewed.
Duration	Integer	No	1	The billing cycle of the subscription dedicated host. For more information about the valid values, see the description of the <code>PeriodUnit</code> parameter.
PeriodUnit	String	No	Month	The unit of the renewal period. Default value: Month. Valid values: <ul style="list-style-type: none">Week: When the <code>PeriodUnit</code> parameter is set to Week, the valid values of the <code>Duration</code> parameter are 1, 2, and 3.Month: When the <code>PeriodUnit</code> parameter is set to Month, the valid values of the <code>Duration</code> parameter are 1, 2, 3, 6, and 12.

Parameter	Type	Required	Example	Description
RenewalStatus	String	No	Normal	<p>Specifies whether to enable auto-renewal for the subscription dedicated host. The RenewalStatus parameter takes precedence over the AutoRenew parameter. Valid values:</p> <ul style="list-style-type: none"> • AutoRenewal: Auto-renewal is enabled. • Normal: The dedicated host is not renewed, but you still receive notifications for renewal. • NotRenewal: Auto-renewal is disabled and no expiration notification is sent. You receive notifications for renewal three days before the expiration time of a subscription dedicated host. You can set the dedicated host that is not renewed to Normal and manually renew it by calling the RenewDedicatedHosts operation. Alternatively, you can renew it by setting this parameter to AutoRenewal.

Response parameters

Parameter	Type	Example	Description
RequestId	String	2A4EA075-CB5B-41B7-B0EB-70D339F64DE7	The ID of the request.

Examples

Sample requests

```
https://ecs.aliyuncs.com/?Action=ModifyDedicatedHostAutoRenewAttribute
&DedicatedHostIds=ddh-xxxxxxxxxxxxxxxxxx
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyDedicatedHostAutoRenewAttributeResponse>
  <RequestId>2A4EA075-CB5B-41B7-B0EB-70D339F64DE7</RequestId>
</ModifyDedicatedHostAutoRenewAttributeResponse>
```

JSON format

```
{
  "RequestId": "2A4EA075-CB5B-41B7-B0EB-70D339F64DE7"
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	MissingParameter.DedicatedHostId	DedicatedHostId should not be null.	The error message returned because the host ID is not specified.
403	InvalidParameter.ToManyDedicatedHostIds	DedicatedHostId should be less than 100.	The error message returned because the number of dedicated host IDs specified in DedicatedHostIds exceeds the upper limit. DedicatedHostIds supports up to 100 IDs.
403	InvalidParameter.InvalidDedicatedHostId	%s	The error message returned because the specified DedicatedHostId is invalid.
403	IncorrectHostStatus	The current status of the resource does not support this operation.	The error message returned because the operation is not supported while the dedicated host is in the current state.
403	ChargeTypeViolation	Pay-As-You-Go dedicated host do not support this operation.	The error message returned because the current operation is not supported for pay-as-you-go dedicated hosts.
403	InvalidParameter.Duration	%s	The error message returned because the specified value of the Duration parameter is invalid.
403	InvalidParameter.RenewalStatus	%s	The error message returned because the specified value of the RenewalStatus parameter is invalid.
403	InvalidPeriodUnit.ValueNotSupported	The specified parameter PeriodUnit is not valid.	The error message returned because the specified value of the PeriodUnit parameter is invalid.

For a list of error codes, visit the [API Error Center](#).

13.ModifyDedicatedHostAutoReleaseTime

You can call this operation to set the automatic release time of a pay-as-you-go dedicated host or cancel the automatic release of a pay-as-you-go dedicated host.

Description

When the specified time for automatic release is reached, the pay-as-you-go dedicated host will be automatically released. Make sure that you no longer use the host and have backed up all necessary application data.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
DedicatedHostId	String	Yes	dh-xxxxxxxxxxxxxxxxxx	The ID of the dedicated host that you want to automatically release.
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host. You can call the DescribeRegions operation to query the latest region list.
Action	String	Yes	ModifyDedicatedHostAutoReleaseTime	The operation that you want to perform. Set the value to <code>ModifyDedicatedHostAutoReleaseTime</code> .
AutoReleaseTime	String	No	2019-06-04T13:35:00Z	<p>The automatic release time of the dedicated host. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.</p> <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 5px; margin-bottom: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> The scheduled release time must be at least 30 mins from the current time. The scheduled release time must be at most 3 years from the current time. If the value of the seconds (ss) is not 00, it is automatically set to 00. </div> <p>If you do not specify the <code>AutoReleaseTime</code> parameter, the automatic release is disabled. The dedicated host will not be released when the scheduled time is reached.</p>

Response parameters

Parameter	Type	Example	Description
-----------	------	---------	-------------

Parameter	Type	Example	Description
RequestId	String	04F0F334-1335-436C-A1D7-6C044FE73368	The ID of the request.

Examples

Sample requests

```
http(s)://ecs.aliyuncs.com/? Action=ModifyDedicatedHostAutoReleaseTime
&DedicatedHostId=dh-xxxxxxxxxxxxxxxxxxx
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyDedicatedHostAutoReleaseTimeResponse>
  <RequestId>04F0F334-1335-436C-A1D7-6C044FE73368</RequestId>
</ModifyDedicatedHostAutoReleaseTimeResponse>
```

JSON format

```
{
  "RequestId": "C0003E8B-B930-4F59-ADC0-0E209A9012A8"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	MissingParameter	DedicatedHostId should not be null.	The error message returned because the host ID cannot be empty.
400	InvalidAutoReleaseTime.Malformed	The specified parameter autoReleaseTime is not valid.	The error message returned because the specified AutoReleaseTime is invalid. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC+0.
500	InternalServerError	The request processing has failed due to some unknown error, exception or failure.	The error message returned because an internal error has occurred.
400	UnsupportedParameter	The parameters is unsupported.	The error message returned because the specified parameter is invalid.
403	ChargeTypeViolation	The operation is not permitted due to charge type of the dedicated host.	The error message returned because the billing method of the dedicated host is subscription. The release operation is not supported for subscription dedicated hosts.

HTTP status code	Error code	Error message	Description
404	NoSuchResource	The specified resource is not found.	The error message returned because the specified resource does not exist.

For more information about error codes, see [API Error Center](#).

14.DescribeDedicatedHosts

You can call this operation to query the details of one or more dedicated hosts, including the physical performance specifications, machine code, service status, and a list of created ECS instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDedicatedHosts	The operation that you want to perform. Set the value to DescribeDedicatedHosts.
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host. You can call the DescribeRegions operation to query the most recent region list.
ZoneId	String	No	cn-hangzhou-g	The zone ID of the dedicated host.
DedicatedHostIds	String	No	["dh-bp165p6xk2tlw61e**", "dh-bp1f9vxmno7emy96****"]	The list of dedicated host IDs. You can include up to 100 IDs in a single request. Separate multiple IDs with commas (.).
DedicatedHostName	String	No	MyDDHTestName	The name of the dedicated host.
Status	String	No	Available	The service status of the dedicated host. Valid values: <ul style="list-style-type: none"> Available: The dedicated host is available. UnderAssessment: The dedicated host has a potential failure and may fail when it is used. PermanentFailure: The dedicated host has a permanent failure and cannot be used. Default value: Available
DedicatedHostType	String	No	ddh.g5	The type of the dedicated host.
PageNumber	Integer	No	1	The number of the page to return. Pages start from page 1. Default value: 1

Parameter	Type	Required	Example	Description
PageSize	Integer	No	10	The number of entries to return on each page. Valid values: 1 to 100. Default value: 10
Tag.N.Key	String	No	TestKey	The key of tag N of the dedicated host. Valid values of N: 1 to 20. The tag key cannot be an empty string. It can be up to 128 characters in length and cannot contain http:// or https://. It cannot start with acs: or aliyun.
Tag.N.Value	String	No	TestValue	The value of tag N of the dedicated host. Valid values of N: 1 to 20. The tag value can be an empty string. It can be up to 128 characters in length and cannot contain http:// or https://. It cannot start with acs: or aliyun.

Response parameters

Parameter	Type	Example	Description
DedicatedHosts	Array		The list of the dedicated hosts.
DedicatedHost			
ActionOnMaintenance	String	Migrate	The policy used to migrate the instances from the dedicated host when the dedicated host fails or needs to be repaired online. Valid values: <ul style="list-style-type: none"> • Migrate: Instances are migrated to another physical server and restarted. If the dedicated host is attached with cloud disks, the default value is Migrate. • Stop: Instances on the dedicated host are stopped. If the dedicated host cannot be repaired, the instances are migrated to another physical server and restarted. If the dedicated host is attached with local disks, the default value is Stop.
AutoPlacement	String	on	Indicates whether the dedicated host is added to the resource pool for automatic deployment. Valid values: <ul style="list-style-type: none"> • on: The dedicated host is added to the resource pool for automatic deployment. • off: The dedicated host is not added to the resource pool for automatic deployment. For more information about automatic deployment, see Automatic deployment .

Parameter	Type	Example	Description
AutoReleaseTime	String	2017-01-01T12:00Z	The time scheduled for a created ECS instance to be automatically released. The time follows the ISO 8601 standard in the <code>yyyy-MM-ddTHH:mmZ</code> format. The time is displayed in UTC.
Capacity	Struct		The collection of performance specifications of the dedicated host.
AvailableLocalStorage	Integer	65	The available space of the local disk. Unit: GiB.
AvailableMemory	Float	25	The available space of memory. Unit: GiB.
AvailableVcpus	Integer	5	The number of available vCPUs.
AvailableVgpus	Integer	2	The number of available vGPUs.
LocalStorageCategory	String	i2	The category of the local disk.
TotalLocalStorage	Integer	512	The total capacity of the local disk. Unit: GiB.
TotalMemory	Float	1024	The total capacity of memory. Unit: GiB.
TotalVcpus	Integer	56	The total number of vCPUs.
TotalVgpus	Integer	10	The total number of vGPUs.
ChargeType	String	Prepaid	The billing method of the dedicated host.
Cores	Integer	3	The number of physical cores in a CPU.
CreationTime	String	2018-01-01T12:00Z	The time when the dedicated host was created. The time follows the ISO 8601 standard in the <code>yyyy-MM-ddTHH:mmZ</code> format. The time is displayed in UTC.
DedicatedHostId	String	dh-bp165p6xk2tlw61e****	The ID of the dedicated host.
DedicatedHostName	String	MyDDHTestName	The name of the dedicated host.
DedicatedHostType	String	ddh.g5	The type of the dedicated host.
Description	String	this-is-my-DDH	The description of the dedicated host.

Parameter	Type	Example	Description
ExpiredTime	String	2019-01-01T12:00Z	The expiration time of the subscription dedicated host. The time follows the ISO 8601 standard in the yyyy-MM-ddTHH:mmZ format. The time is displayed in UTC.
GPUSpec	String	gpu	The GPU model.
Instances	Array		The list of the ECS instances that are deployed on the dedicated host.
Instance			
InstanceId	String	i-bp14ot0ykf8w13a1****	The ID of the ECS instance that is deployed on the dedicated host.
InstanceType	String	ecs.g5.large	The instance type of the ECS instance that is deployed on the dedicated host.
MachineId	String	12aaa123456ff19dec12345d3026e****	The machine code of the dedicated host.
NetworkAttributes	Struct		The network attributes of the dedicated host.
SlbUdpTimeout	Integer	60	The timeout period of the UDP session that is established to SLB.
UdpTimeout	Integer	60	The timeout period of the UDP session.
OperationLocks	Array		The reasons for locking the resources of the dedicated host.
OperationLock			
LockReason	String	financial	The reason for locking the resource of the dedicated host. Example of valid values: financial. It indicates that the resource was locked due to overdue payments.
PhysicalGpus	Integer	10	The number of physical GPUs.
RegionId	String	cn-hangzhou	The region ID of the dedicated host.
ResourceGroupId	String	rg-aek3b6jzp66****	The ID of the resource group to which the dedicated host belongs.

Parameter	Type	Example	Description
SaleCycle	String	Month	The unit of the subscription billing method. Valid values: <ul style="list-style-type: none"> Month Year
Sockets	Integer	5	The number of physical CPUs.
Status	String	Available	The service status of the dedicated host. Valid values: <ul style="list-style-type: none"> Available UnderAssessment PermanentFailure
SupportedCustomInstanceTypeFamilies	List	ecs.ddh6s.custom	The list of custom instance families supported by the dedicated host.
SupportedInstanceTypeFamilies	List	ecs.g5	The list of ECS instance families supported by the dedicated host.
SupportedInstanceTypesList	List	ecs.g5.large	The list of ECS instance types supported by the dedicated host.
Tags	Array		The tags of the dedicated host.
Tag			
TagKey	String	TestKey	The tag key of the dedicated host.
TagValue	String	TestValue	The tag value of the dedicated host.
ZoneId	String	cn-hangzhou-g	The zone ID of the dedicated host.
PageNumber	Integer	5	The page number of the returned page.
PageSize	Integer	1	The number of entries returned per page.
RequestId	String	7654525A-9964-4ABB-8BCD-98F8835E809A	The ID of the request.
TotalCount	Integer	3	The total number of dedicated hosts.

Examples

Sample requests

```
https://ecs.aliyuncs.com/?Action=DescribeDedicatedHosts
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeDedicatedHostsResponse>
  <TotalCount>1</TotalCount>
  <DedicatedHosts>
    <DedicatedHost>
      <PhysicalGpus>0</PhysicalGpus>
      <MachineId>12aaa123456ff19dec12345d3026e****</MachineId>
      <DedicatedHostId>dh-bp165p6xk2tlw61e****</DedicatedHostId>
      <Description></Description>
      <ResourceGroupId></ResourceGroupId>
      <SupportedCustomInstanceTypeFamilies>
    </SupportedCustomInstanceTypeFamilies>
      <NetworkAttributes></NetworkAttributes>
      <GPUSpec></GPUSpec>
      <DedicatedHostName>MyDDHTestName</DedicatedHostName>
      <Capacity>
        <AvailableVgpus>0</AvailableVgpus>
        <LocalStorageCategory></LocalStorageCategory>
        <TotalVgpus>0</TotalVgpus>
        <TotalMemory>768</TotalMemory>
        <AvailableMemory>768</AvailableMemory>
        <AvailableVcpus>104</AvailableVcpus>
        <TotalVcpus>104</TotalVcpus>
        <AvailableLocalStorage>0</AvailableLocalStorage>
        <TotalLocalStorage>0</TotalLocalStorage>
      </Capacity>
      <ExpiredTime>2999-09-08T16:00Z</ExpiredTime>
      <SaleCycle></SaleCycle>
      <Status>Available</Status>
      <ZoneId>cn-hangzhou-g</ZoneId>
      <AutoPlacement>on</AutoPlacement>
      <DedicatedHostType>ddh.r6</DedicatedHostType>
      <OperationLocks>
    </OperationLocks>
      <Cores>52</Cores>
      <Instances>
    </Instances>
      <Sockets>2</Sockets>
      <ChargeType>PostPaid</ChargeType>
      <SupportedInstanceTypeFamilies>
        <SupportedInstanceTypeFamily>ecs.c6</SupportedInstanceTypeFamily>
```

```
<SupportedInstanceTypeFamily>ecs.g6</SupportedInstanceTypeFamily>
<SupportedInstanceTypeFamily>ecs.ic6</SupportedInstanceTypeFamily>
<SupportedInstanceTypeFamily>ecs.r6</SupportedInstanceTypeFamily>
</SupportedInstanceTypeFamilies>
<ActionOnMaintenance>Migrate</ActionOnMaintenance>
<CreationTime>2020-04-15T07:12Z</CreationTime>
<RegionId>cn-hangzhou</RegionId>
<SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.13xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.16xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.4xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.8xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.6xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.2xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.large</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.3xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6.26xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.4xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.8xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.6xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.2xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.large</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.6xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.16xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.26xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.13xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.2xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.16xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.8xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.large</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.13xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.4xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.3xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.c6.3xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6.26xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.3xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.8xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.2xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.large</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.6xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.ic6.4xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.r6-dbeni.8xlarge</SupportedInstanceTypesList>
  <SupportedInstanceTypesList>ecs.g6-nfveni.large</SupportedInstanceTypesList>
```

```

    </SupportedInstanceTypesList>
    <AutoReleaseTime></AutoReleaseTime>
  </DedicatedHost>
</DedicatedHosts>
<RequestId>7654525A-9964-4ABB-8BCD-98F8835E809A</RequestId>
<PageSize>10</PageSize>
<PageNumber>1</PageNumber>
</DescribeDedicatedHostsResponse>

```

JSON format

```

{
  "TotalCount": 1,
  "DedicatedHosts": {
    "DedicatedHost": [
      {
        "PhysicalGpus": 0,
        "MachineId": "12aaa123456ff19dec12345d3026e****",
        "DedicatedHostId": "dh-bp165p6xk2tlw61e****",
        "Description": "",
        "ResourceGroupId": "",
        "SupportedCustomInstanceTypeFamilies": {
          "SupportedCustomInstanceTypeFamily": []
        },
        "NetworkAttributes": {},
        "GPUSpec": "",
        "DedicatedHostName": "MyDDHTestName",
        "Capacity": {
          "AvailableVgpus": 0,
          "LocalStorageCategory": "",
          "TotalVgpus": 0,
          "TotalMemory": 768,
          "AvailableMemory": 768,
          "AvailableVcpus": 104,
          "TotalVcpus": 104,
          "AvailableLocalStorage": 0,
          "TotalLocalStorage": 0
        },
        "ExpiredTime": "2999-09-08T16:00Z",
        "SaleCycle": "",
        "Status": "Available",
        "ZoneId": "cn-hangzhou-g",
        "AutoPlacement": "on",
        "DedicatedHostType": "ddh.r6",
        "OperationLocks": {
          "OperationLock": []
        }
      }
    ]
  }
}

```

```
"Cores": 52,
"Instances": {
  "Instance": []
},
"Sockets": 2,
"ChargeType": "PostPaid",
"SupportedInstanceTypeFamilies": {
  "SupportedInstanceTypeFamily": [
    "ecs.c6",
    "ecs.g6",
    "ecs.ic6",
    "ecs.r6"
  ]
},
"ActionOnMaintenance": "Migrate",
"CreationTime": "2020-04-15T07:12Z",
"RegionId": "cn-hangzhou",
"SupportedInstanceTypesList": {
  "SupportedInstanceTypesList": [
    "ecs.g6.13xlarge",
    "ecs.g6.16xlarge",
    "ecs.g6.4xlarge",
    "ecs.g6.8xlarge",
    "ecs.g6.xlarge",
    "ecs.g6.6xlarge",
    "ecs.g6.2xlarge",
    "ecs.g6.large",
    "ecs.g6.3xlarge",
    "ecs.g6.26xlarge",
    "ecs.c6.4xlarge",
    "ecs.c6.8xlarge",
    "ecs.c6.6xlarge",
    "ecs.c6.2xlarge",
    "ecs.r6.large",
    "ecs.c6.xlarge",
    "ecs.r6.6xlarge",
    "ecs.r6.16xlarge",
    "ecs.r6.xlarge",
    "ecs.c6.26xlarge",
    "ecs.r6.13xlarge",
    "ecs.r6.2xlarge",
    "ecs.c6.16xlarge",
    "ecs.r6.8xlarge",
    "ecs.c6.large",
    "ecs.c6.13xlarge",
    "ecs.r6.4xlarge",
    "ecs.r6.3xlarge",
```



```

        "ecs.c6.3xlarge",
        "ecs.r6.26xlarge",
        "ecs.ic6.3xlarge",
        "ecs.ic6.8xlarge",
        "ecs.ic6.2xlarge",
        "ecs.ic6.xlarge",
        "ecs.ic6.large",
        "ecs.ic6.6xlarge",
        "ecs.ic6.4xlarge",
        "ecs.r6-dbeni.8xlarge",
        "ecs.g6-nfvenl.large"
    ]
},
"AutoReleaseTime": ""
}
]
},
"RequestId": "7654525A-9964-4ABB-8BCD-98F8835E809A",
"PageSize": 10,
"PageNumber": 1
}
    
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidStatus.ValueNotSupported	The specified dedicated host status is not supported.	The error message returned because the operation is not supported while the dedicated host is in the current state.
400	MissingParameter.RegionId	The regionId should not be null.	The error message returned because the required RegionId parameter is not specified.
403	InvalidDedicatedHostIds.Malformed	The amount of specified dedicatedHostIds exceeds the limit.	The error message returned because the number of dedicated host IDs specified by the DedicatedHostIds parameter exceeds the upper limit of 100.
400	InvalidParameter.DedicatedHostIds	The specified parameter dedicatedHostIds is not valid.	The error message returned because the specified DedicatedHostIds parameter is invalid.
400	InvalidRegion.NotFound	The specified parameter RegionId is not valid.	The error message returned because the specified RegionId parameter is invalid.
400	InvalidZone.NotFound	The specified parameter ZoneId is not valid.	The error message returned because the specified ZoneId parameter is invalid.

HTTP status code	Error code	Error message	Description
404	InvalidLockReason.Not Found	The specified LockReason is not found	The error message returned because the specified LockReason parameter does not exist.

For a list of error codes, visit the [API Error Center](#).

15.ModifyDedicatedHostsChargeType


Modifies the billing method of dedicated hosts.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDedicatedHostsChargeType	The operation that you want to perform. For API requests that are initiated by using the HTTP or HTTPS methods, the <code>Action</code> parameter is required. Set the value to <code>ModifyDedicatedHostsChargeType</code> .
DedicatedHostIds	String	Yes	<code>["dh-bp181e5064b5sotr**", "dh-bp18064b5sotrr9c**"]</code>	The ID of the dedicated host. The value can be a JSON array that consists of up to 100 instance IDs. Separate multiple instance IDs with commas (,).
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host. You can call the DescribeRegions operation to query the most recent region list.
Period	Integer	No	1	The duration for which you want to extend the subscription. Valid values: <ul style="list-style-type: none"> 1, 2, 3, and 4 if <code>PeriodUnit</code> is set to <code>Week</code> 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, 36, 48, and 60 if <code>PeriodUnit</code> is set to <code>Month</code>
PeriodUnit	String	No	Month	The unit of the extension duration (<code>Period</code>). Valid values: <ul style="list-style-type: none"> Week Month Default value: Month.

Parameter	Type	Required	Example	Description
DryRun	Boolean	No	false	<p>Specifies whether to only validate the request. Valid values:</p> <ul style="list-style-type: none"> • true: After receiving the request, the system only validates the request. The system does not modify the billing method of the specified dedicated hosts even if the request is valid. To validate the request, the system checks whether your AccessKey pair is valid, the RAM user (if used) is authorized, and required parameters are specified. If the request is invalid, the error code that indicates the reason is returned. If the request is valid, the <code>DryRunOperation</code> error code is returned. • false: The system validates the request after receiving the request. If the request is valid, the 2XX HTTP status code is returned and the billing method of the specified dedicated hosts is modified. <p>Default value: false.</p>
AutoPay	Boolean	No	false	<p>Specifies whether automatic payment is enabled. Valid values:</p> <ul style="list-style-type: none"> • true: Automatic payment is enabled. Make sure that your account has sufficient balance. Otherwise, your order becomes invalid and is canceled. • False: Automatic payment is disabled. An order is generated. <p>Default value: true.</p> <div style="background-color: #e6f2ff; padding: 5px; border: 1px solid #d9e1f2;"> <p> Note If your account balance is insufficient, you can set the <code>AutoPay</code> parameter to <code>false</code> to generate an unpaid order. Then, you can log on to the ECS console to complete the payment for the order.</p> </div>
DedicatedHostChargeType	String	No	PrePaid	<p>The new billing method. Valid values:</p> <ul style="list-style-type: none"> • PrePaid: changes the billing method from pay-as-you-go to subscription. • PostPaid: changes the billing method from subscription to pay-as-you-go. <p>Default value: PrePaid.</p>

Parameter	Type	Required	Example	Description
ClientToken	String	No	e4567-e89b-12d3-a456-426655440000	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value. However, you must make sure that it is unique among different requests. The value of <code>ClientToken</code> can contain only ASCII characters. It cannot exceed 64 characters in length. For more information, see How to ensure idempotence .
DetailFee	Boolean	No	false	Specifies whether to return the billing details of the order when the billing method is changed from subscription to pay-as-you-go. Default value: false.

Response parameters

Parameter	Type	Example	Description
FeeOfInstances	Array		The billing details of the order.
FeeOfInstance			
Currency	String	CNY	The unit of currency for the bill.
Fee	String	0	The total fees.
InstanceId	String	dh-bp181e5064b5sotr****	The ID of the dedicated host.
OrderId	String	20413515388****	The ID of the order.
RequestId	String	B61C08E5-403A-46A2-96C1-F7B1216DB10C	The ID of the request.

Examples

Sample requests

```
https://ecs.aliyuncs.com/?Action=ModifyDedicatedHostsChargeType
&RegionId=cn-hangzhou
&InstanceIds=["dh-bp181e5064b5sotr****","dh-bpe5064b5sotrr9c****"]
&Period=1
&PeriodUnit=Month
&AutoPay=false
&IncludeAllDisks=true
&ClientToken=e4567-e89b-12d3-a456-426655440000
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyDedicatedHostsChargeTypeResponse>
  <RequestId>B61C08E5-403A-46A2-96C1-F7B1216DB10C</RequestId>
  <OrderId>20413515388****</OrderId>
  <FeeOfInstances>
    <FeeOfInstance>
      <Fee>0</Fee>
      <InstanceId>dh-bp181e5064b5sotr****</InstanceId>
      <Currency>CNY</Currency>
    </FeeOfInstance>
    <FeeOfInstance>
      <Fee>0</Fee>
      <InstanceId>dh-bp181e5064b5sotr****</InstanceId>
      <Currency>CNY</Currency>
    </FeeOfInstance>
  </FeeOfInstances>
</ModifyDedicatedHostsChargeTypeResponse>
```

JSON format

```
{
  "RequestId": "B61C08E5-403A-46A2-96C1-F7B1216DB10C",
  "OrderId": "20413515388****",
  "FeeOfInstances": [
    {
      "FeeOfInstance": [
        {
          "Fee": "0",
          "InstanceId": "dh-bp181e5064b5sotr****",
          "Currency": "CNY"
        },
        {
          "Fee": "0",
          "InstanceId": "dh-bp181e5064b5sotr****",
          "Currency": "CNY"
        }
      ]
    }
  ]
}
```

Error codes

HttpCode	Error code	Error message	Description
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HttpCode	Error code	Error message	Description
400	InvalidParameter.InstanceIds	The specified InstanceIds are invalid.	The error message returned because the specified InstanceId parameter is invalid.
400	InvalidParameter	%s	The error message returned because the specified parameter is invalid.
400	InvalidStatus.ValueNotSupported	%s	The error message returned because the operation is not supported while the resource is in the current state.
400	InvalidInstanceChargeType.ValueNotSupported	%s	The error message returned because the billing method is not supported. Change the billing method and try again.
400	ExpiredInstance	The specified instance has expired.	The error message returned because the specified instance has expired.
400	InstancesIdQuotaExceeded	The maximum number of Instances is exceeded.	The error message returned because the maximum number of instances has been reached.
400	InvalidClientToken.ValueNotSupported	The ClientToken provided is invalid.	The error message returned because the specified ClientToken parameter is invalid.
403	InvalidInstanceType.ValueNotSupported	The specified InstanceType does not exist or beyond the permitted range.	The error message returned because the specified instance type does not exist or you are not authorized to manage the instance type.
403	InstanceType.Offline	%s	The error message returned because the instance type is retired or in short supply.
500	InternalServerError	The request processing has failed due to some unknown error, exception or failure.	The error message returned because an internal error has occurred. Try again later. If the error persists, submit a ticket.
400	ReleaseTimeHaveBeenSet	The specified instance has been set released time.	The error message returned because an automatic release time has been set for the specified instance.
403	InvalidAccountStatus.NotEnoughBalance	Your account does not have enough balance.	The error message returned because your account balance is insufficient. Add funds to your account before you proceed.
403	Account.Arrearage	Your account has an outstanding payment.	The error message returned because your account has overdue payments.

HttpCode	Error code	Error message	Description
400	Throttling	Request was denied due to request throttling, please try again after 5 minutes.	The error message returned because your request is denied due to throttling. Try again after 5 minutes.
403	InvalidParameter.NotMatch	%s	The error message returned because a specified parameter is invalid. Check whether parameter conflicts exist.
403	InvalidAction	%s	The error message returned because this operation is invalid.
400	Throttling	%s	The error message returned because the request is denied due to throttling.
400	QuotaExceed.AfterpayInstance	The maximum number of Pay-As-You-Go instances is exceeded: %s	The error message returned because the pay-as-you-go resources of the specified instance type are insufficient. Reduce the number of instances to be created.
400	InvalidPeriod.UnitMismatch	The specified Period must be correlated with the PeriodUnit.	The error message returned because the duration for which the subscription is extended is not associated with PeriodUnit.
400	InvalidImageType.NotSupported	%s	The error message returned because the specified image type is invalid. Check whether the region supports this image type.
400	InvalidPeriod.ExceededDedicatedHost	Instance expired date can't exceed dedicated host expired date.	The error message returned because the expiration date of the instance is later than that of the dedicated host.
403	QuotaExceed.PostPaidDisk	Living postPaid disks quota exceeded.	The error message returned because the number of pay-as-you-go disks has reached the upper limit.
403	ImageNotSupportInstanceType	The specified instanceType is not supported by instance with marketplace image.	The error message returned because the specified Alibaba Cloud Marketplace image does not support the instance type.
403	InvalidInstanceType.PhasedOut	This instanceType is no longer offered.	The error message returned because the specified instance type is no longer available.
400	InvalidSystemDiskCategory.ValueNotSupported	%s	The error message returned because the operation is not applicable to the specified system disk type.
500	InternalServerError	The request processing has failed due to some unknown error.	The error message returned because an internal error has occurred. Try again later. If the error persists, submit a ticket.

HttpCode	Error code	Error message	Description
403	RealNameAuthenticationError	Your account has not passed the real-name authentication yet.	The error message returned because you have not completed the real-name verification. Complete the real-name authentication and try again.

For a list of error codes, visit the [API Error Center](#).

16.RenewDedicatedHosts

You can call this operation to renew one or more subscription dedicated hosts.

Description

When you renew the subscription dedicated hosts, deductible vouchers are used first by default. You must also make sure that your account supports the credit payment method.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RenewDedicatedHosts	The operation that you want to perform. Set the value to RenewDedicatedHosts.
DedicatedHostIds	String	Yes	dh-xxxxxxxxxxxxxxxxxxx	The list of dedicated host IDs. A maximum of 100 IDs of subscription dedicated hosts can be specified in the list. Specify the dedicated host IDs in a JSON array. Example: ["dh-xxxxxxxx", "dh-yyyyyyyy", ... "dh-zzzzzzzz"] . Separate the IDs with commas (,).
Period	Integer	Yes	1	The renewal period of the subscription dedicated host. For information about the valid values, see the description of the PeriodUnit parameter.
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host. You can call the DescribeRegions operation to query the most recent region list.
PeriodUnit	String	No	Month	The unit of the renewal period. Default value: Month. Valid values: <ul style="list-style-type: none"> Week: When the PeriodUnit parameter is set to Week, valid values of the Period parameter are 1, 2, 3, and 4. Month: When the PeriodUnit parameter is set to Month, valid values of the Period parameter are 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, 36, 48, and 60.

Parameter	Type	Required	Example	Description
ClientToken	String	No	XXXXXXXXXXXXXXXXXXXX XXXXXX	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that the value is unique among different requests. The token can only contain ASCII characters and cannot exceed 64 characters in length. For more information, see How to ensure idempotence .

Response parameters

Parameter	Type	Example	Description
RequestId	String	2A4EA075-CB5B-41B7-B0EB-70D339F64DE7	The ID of the request.

Examples

Sample requests

```
http(s)://ecs.aliyuncs.com/?Action=RenewDedicatedHosts
&DedicatedHostIds=dh-XXXXXXXXXXXXXXXXXX
&Period=1
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<RenewDedicatedHostsResponse>
  <RequestId>2A4EA075-CB5B-41B7-B0EB-70D339F64DE7</RequestId>
</RenewDedicatedHostsResponse>
```

JSON format

```
{
  "RequestId": "2A4EA075-CB5B-41B7-B0EB-70D339F64DE7"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	IdempotenceParamNot Match	Request uses a client token in a previous request but is not identical to that request.	The error message returned because the parameter used in this request is different from the one in the previous request even though the ClientToken value in this request is identical to the one in the previous request.

HTTP status code	Error code	Error message	Description
400	InvalidClientToken.ValueNotSupported	The ClientToken provided is invalid.	The error message returned because the specified ClientToken parameter is invalid.
403	ChargeTypeViolation	Pay-As-You-Go dedicated host do not support this operation.	The error message returned because the current operation is not supported for pay-as-you-go dedicated hosts.
403	IncorrectHostStatus	The current status of the resource does not support this operation.	The error message returned because this operation is not supported while the dedicated host is in the current state.
400	InvalidPeriod	The specified period is not valid.	The error message returned because the specified Period parameter is invalid.
403	LastTokenProcessing	The last token request is processing.	The error message returned because the last token request is being processed. Try again later.
400	InvalidPeriodUnit.ValueNotSupported	The specified parameter PeriodUnit is not valid.	The error message returned because the specified PeriodUnit parameter is invalid.
400	InvalidDedicatedHostId.NotFound	The specified DedicatedHostId does not exist.	The error message returned because the specified dedicated host ID does not exist.
400	InvalidStatus.Upgrading	The dedicated host is upgrading, please try it later.	The error message returned because the specified dedicated host is being upgraded. Try again later.
500	InternalServerError	The request processing has failed due to some unknown error.	The error message returned because an internal error has occurred. Try again later. If the problem persists, submit a ticket.
400	LastOrderProcessing	The previous order is still processing, please try again later.	The error message returned because an order is being processed. Try again later.

For a list of error codes, visit the [API Error Center](#).

17.ReleaseDedicatedHost

You can call this operation to release a pay-as-you-go dedicated host.

Description

Before you release a pay-as-you-go dedicated host, make sure that no Elastic Compute Service (ECS) instance is deployed on the dedicated host.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
DedicatedHostId	String	Yes	dh-xxxxxxxxxxxxxxxxxxx	The ID of the dedicated host.
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host. You can call the DescribeRegions operation to query the latest region list.
Action	String	Yes	ReleaseDedicatedHost	The operation that you want to perform. Set the value to ReleaseDedicatedHost.

Response parameters

Parameter	Type	Example	Description
RequestId	String	A1B15AC8-E6F6-49A4-8985-8C07104B9199	The ID of the request.

Examples

Sample requests

```
http(s)://ecs.aliyuncs.com/? Action=ReleaseDedicatedHost
&DedicatedHostId=dh-xxxxxxxxxxxxxxxxxxx
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<ReleaseDedicatedHostResponse>
  <RequestId>A1B15AC8-E6F6-49A4-8985-8C07104B9199</RequestId>
</ReleaseDedicatedHostResponse>
```

JSON format

```
{
  "RequestId": "A1B15AC8-E6F6-49A4-8985-8C07104B9199"
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	InstanceExist	Instance exists on the dedicated host.	The error message returned because instances still exist on the dedicated host and the dedicated host cannot be released.
400	ChargeTypeViolation	The operation is not permitted due to charge type of the dedicated host.	The error message returned because the billing method of the dedicated host is subscription. The release operation is not supported for subscription dedicated hosts.
400	IncorrectHostStatus.Initializing	The specified dedicatedHost status is not support this operation	The error message returned because the operation is not supported while the dedicated host is in the current state.
404	InvalidDedicatedHostId.NotFound	The specified DedicatedHostId does not exist.	The error message returned because the specified dedicated host ID does not exist.
500	InternalServerError	The request processing has failed due to some unknown error.	The error message returned because an internal error has occurred. Try again later. If the problem persists, submit a ticket.

For more information about error codes, see [API Error Center](#).

18.RedeployDedicatedHost

Migrates instances from a failed dedicated host.

Description

If a dedicated host is in the UnderAssessment state, we recommend that you call this operation to migrate the instances of the dedicated host to prevent permanent failures. You can call the [DescribeDedicatedHosts](#) operation to query the status of a dedicated host.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RedeployDedicatedHost	The operation that you want to perform. Set the value to RedeployDedicatedHost.
DedicatedHostId	String	Yes	dh-bp165p6xk2tlw61e** **	The ID of the dedicated host.
RegionId	String	Yes	cn-hangzhou	The region ID of the dedicated host. You can call the DescribeRegions operation to query the most recent region list.

Response parameters

Parameter	Type	Example	Description
RequestId	String	FCED4B7A-53D5-4C04-ABE3-26D4F3890D57	The ID of the request.

Examples

Sample requests

```
https://ecs.aliyuncs.com/?Action=RedeployDedicatedHost
&RegionId=cn-hangzhou
&DedicatedHostId=dh-bp165p6xk2tlw61e****
&<Common request parameters>
```

Sample success responses

XML format

```
<RedeployDedicatedHostResponse>
  <RequestId>FCED4B7A-53D5-4C04-ABE3-26D4F3890D57</RequestId>
</RedeployDedicatedHostResponse>
```

JSON format

```
{
  "RequestId":"FCED4B7A-53D5-4C04-ABE3-26D4F3890D57"
}
```

Error codes

HttpCode	Error code	Error message	Description
404	InvalidDedicatedHostId.NotFound	The specified DedicatedHostId does not exist.	The error message returned because the specified dedicated host ID does not exist.

For a list of error codes, visit the [API Error Center](#).