

# Alibaba Cloud Dedicated Host

## API Reference

Issue: 20190719

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## Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 <b>Danger:</b> Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 <b>Warning:</b> Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Notice:</b> Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
<b>Bold</b>	It is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
Courier font	It is used for commands.	Run the <code>cd / d C :/ windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid <i>Instance_ID</i></code>
[ ] or [a b]	It indicates that it is an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand   slave}</code>



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# 1 Overview

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Alibaba Cloud Dedicated Host (DDH) provides you with multiple APIs. We recommend that you use APIs to manage your cloud resources or develop applications.

## Limits

There are limits to the number and specifications of dedicated hosts you can create. For more information, see [Limits](#). When interface descriptions, optional parameter values, and available specifications are not consistent with [Limits](#), Limits are applied.

## Developer options

This service supports HTTP and HTTPS requests, and allows the GET and POST methods. You can call a DDH API using the following methods:

- [SDKs](#) of different programming languages (Recommended)
- Alibaba Cloud [CLI](#)
- Alibaba Cloud [API Explorer](#)
- API URL request



### Note:

To use API URL requests, you must manually complete the authentication process and encode the URL for every request. This allows you to learn the authentication process for accessing Alibaba Cloud. For more information, see [Create an AccessKey](#).

If you use the CLI, SDKs, or API Explorer, you can skip the manual authentication process. We recommend that you use the language-specific SDK to call an API and manage your resources.



### Note:

When you call an API in the Alibaba Cloud CLI and SDK, remove the period (.) from request parameters. For example, use `SystemDisk Category` for the request parameter `SystemDisk . Category`.

## Invocation methods

The request URL, which consists of different parameters, has a fixed request structure. The URL contains common parameters, your signature, and API-specific parameters of an API. We provide sample URL requests for every API. These sample URLs are not encoded in order to make them easy to read. You must encode the URL before making a request. After the authentication process is complete based on your signature, the results are returned to you. The response parameters are displayed if the authentication is successful, and the error message is displayed if the authentication fails. You can troubleshoot issues according to the common error codes and API-specific error codes. For more information, see [Introduction to Alibaba Cloud API](#).

Currently, DDH shares the endpoint with ECS. For more information, see [ECSRequest structure](#).



### Note:

We recommend that you use an SDK to call an API and manage your resources, to avoid manual authentication.

## 2 AllocateDedicatedHosts

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You can call this operation to create one or more subscription Dedicated Hosts (DDHs). Alibaba Cloud DDH provides dedicated physical servers for each tenant. You can create Elastic Compute Service (ECS) instances on a DDH and obtain the attributes of the physical servers.

### Description



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



Creating a DDH incurs resource consumption fees. Before you create a DDH, we recommend that you read and understand the billing methods for DDHs. For more information, see [Pricing overview](#).


- You can create a maximum of 100 subscription DDHs at a time.
- After one or more DDHs are created, a DDH ID list is returned. You can call the [DescribeDedicatedHosts](#) operation to query the status of DDHs in the DDH ID list.
- When the status of a created DDH is `Available`, you can start to create ECS instances on the DDH. For more information about the lifecycle of a DDH, see [Lifecycle](#).
- After you submit a DDH creation task, an error may occur if the parameters are invalid or DDH resources are insufficient. For more information, see [Error codes](#).
- After a DDH is created, you can call the [ModifyInstanceDeployment](#) operation to migrate ECS instances from a shared host to the DDH. You can also migrate ECS instances from another DDH to the created DDH.


### Request parameters

Parameter	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set this parameter to <code>AllocateDedicatedHosts</code> .
RegionId	String	Yes	The region ID of the DDH. For more information, call <a href="#">DescribeRegions</a> to obtain the latest region list.

Parameter	Type	Required	Description
DedicatedHostType	String	Yes	The type of the DDH. You can call the <a href="#">DescribeDedicatedHostTypes</a> operation to obtain the latest DDH type list.
Quantity	Integer	No	The number of DDHs that you want to create this time. Valid values: [1, 100]. Default value: 1.
ZoneId	String	No	The zone ID of the DDH. No default value is available. If you do not specify a zone, the system automatically selects a zone.
DedicatedHostName	String	No	The name of the DDH. The name is a string of 2 to 128 characters. It must begin with an English or a Chinese character. It can contain A-Z, a-z, Chinese characters, numbers, periods (.), colons (:), underscores (_), and hyphens (-).
Description	String	No	The description of the DDH. It cannot begin with http:// or https://.
ChargeType	String	No	The billing method of the DDH. Valid values: PrePaid , indicating subscription.   <b>Note:</b> If you set this parameter to PrePaid, ensure that you have a valid payment method. Otherwise, InvalidPaymentMethod is returned.
Period	Integer	No	The subscription period of the DDH. Unit: months. Valid values: [1, 9], 12, 24, and 36.   <b>Note:</b> The Period parameter takes effect and is required only when the ChargeType parameter is set to PrePaid .

Parameter	Type	Required	Description
AutoRenew	Boolean	No	<p>Specifies whether the subscription DDH is automatically renewed. Default value: <code>False</code>.</p> <p> <b>Note:</b> The <code>AutoRenew</code> parameter takes effect only when the <code>ChargeType</code> parameter is set to <code>PrePaid</code>.</p>
AutoRenewPeriod	Integer	No	<p>The auto-renewal period of the DDH. Unit: months. Valid values: 1, 2, 3, 6, and 12.</p> <p> <b>Note:</b> The <code>AutoRenewPeriod</code> parameter takes effect and is required only when the <code>AutoRenew</code> parameter is set to <code>True</code>.</p>
ActionOnMaintenance	String	No	<p>The method used to migrate the instances on the DDH when the DDH fails or needs to be repaired online. Valid values:</p> <ul style="list-style-type: none"> <li><code>Migrate</code> : specifies that the instances are migrated to another physical server and restarted.</li> </ul> <p>Default value: <code>Migrate</code> (when a cloud disk is attached to the DDH).</p> <ul style="list-style-type: none"> <li><code>Stop</code> : specifies that all the instances on the DDH are stopped. If the DDH cannot be repaired, the instances are migrated to another physical server and restarted.</li> </ul> <p>Default value: <code>Stop</code> (when a local disk is attached to the DDH).</p>
NetworkAttributes.SlbUdpTimeout	Integer	No	<p>The timeout period of UDP sessions that are established with Server Load Balancer (SLB). Unit: seconds. Valid values: [15, 310].</p>

Parameter	Type	Required	Description
NetworkAttributes . UdpTimeout	Integer	No	The timeout period of UDP sessions that are established between users and cloud services running on the DDH. Unit: seconds. Valid values: [15, 310].
Tag . n . Key	String	No	DDHThe key of a tag of which n is from 1 to 20. Once you use this parameter, it cannot be a null string. It can be up to 64 characters in length. It cannot begin with "aliyun", "acs:", "http://", or "https://".
Tag . n . Value	String	No	DDHThe value of a tag of which n is a number from 1 to 20. Once you use this parameter , it can be a null string. It can be up to 128 characters in length. It cannot begin with "aliyun", "acs:", "http://", or "https://".
ClientToken	String	No	Guarantees the idempotence of the request. The value is generated by a client and must be globally unique. Only ASCII characters are allowed. It can contain a maximum of 64 ASCII characters. For more information, see <a href="#">How to ensure idempotence</a> .
AutoReleaseTime	String	No	The automatic release time of the DDH. Format: <code>yyyy - MM - ddTHH : mm : ssZ .</code>  Note: <ul style="list-style-type: none"> <li>Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.</li> <li>If the value of the seconds place is not 00, it is automatically set to 00.</li> <li>The automatic release time must be at least 30 minutes and at most three years later than the current time.</li> </ul>

Parameter	Type	Required	Description
AutoPlacement	String	No	<p>Specifies whether the DDH is added to the automatic deployment resource pool. If you create an instance on a DDH without specifying the <code>DedicatedHostId</code> parameter, Alibaba Cloud automatically selects a DDH from the resource pool to host the instance. Valid values:</p> <ul style="list-style-type: none"> <li><code>on</code>: adds the DDH to the automatic deployment resource pool.</li> <li><code>off</code>: does not add the DDH to the automatic deployment resource pool.</li> </ul> <p>Default value: <code>on</code>.</p> <div style="background-color: #f0f0f0; padding: 5px;"> <p> <b>Notice:</b></p> <p>When you create a DDH:</p> <ul style="list-style-type: none"> <li>If you do not set this parameter, the DDH is added to the automatic deployment resource pool.</li> <li>If you do not want to add the DDH to the automatic deployment resource pool, set this parameter to <code>off</code>.</li> </ul> </div>

### Response parameters

Parameter	Type	Description
<code>DedicatedHostIdSets</code>	Array of <code>DedicatedHostId</code>	The list of DDH IDs ( <code>DedicatedHostId</code> ).

### Examples

#### Sample request

```
https://ecs.aliyuncs.com/?Action=AllocateDedicatedHosts
&RegionId=cn-hangzhou
&DedicatedHostType=ddh.sn1ne
&Quantity=2
<Common request parameters >
```

#### Sample success response

**XML format**

```
< AllocateDedicatedHostsResponse >
  < RequestId > 192C4203 - ED9E - 4BCD - 847D - 482995C017 28 </
  RequestId >
  < DedicatedHostIdSets >
    < DedicatedHostId > dh - dedicatedhost1 </ DedicatedHostId >
    < DedicatedHostId > dh - dedicatedhost2 </ DedicatedHostId >
  </ DedicatedHostIdSets >
</ AllocateDedicatedHostsResponse >
```

**JSON format**

```
{
  "RequestId": "E2A664A6 - 2933 - 4C64 - 88AE - 5033D003EA DF ",
  "DedicatedHostIdSets": {
    "DedicatedHostId": [
      "dh - dedicatedhost1 ",
      "dh - dedicatedhost2 "
    ]
  }
}
```

**Error codes**

Error code	Error message	HTTP status code	Description
Account.Arrearage	Your account has an outstanding payment.	400	The error message returned because your account has an overdue payment.
InvalidChargeType.ValueNotSupported	ChargeType is not valid.	400	The error message returned because the specified ChargeType parameter is invalid.
InvalidDedicatedHostName.Malformed	The specified parameter DedicatedHostName is not valid.	400	The error message returned because the specified DedicatedHostName parameter is invalid.



Error code	Error message	HTTP status code	Description
InvalidDescription.Malformed	The specified parameter Description is not valid.	400	The error message returned because the specified Description parameter is invalid.
MissingParameter	The specified parameter Period can't be null	400	The error message returned because the Period parameter is not set. This parameter is required when the ChargeType parameter is set to PrePaid .
OperationDenied	Sales of this resource are temporarily suspended in the specified region; please try again later.	400	The error message returned because DDHs are not available in the specified region.
OperationDenied.NoStock	Sales of this resource are temporarily suspended in the specified region; please try again later.	400	The error message returned because DDH resources are insufficient. Select another resource type or zone.
QuotaExceeded.AfterpayDedicatedHost	Living afterpay dedicated host quota exceeded.	400	The error message returned because the number of DDHs that you create has exceeded the quota.
Zone.NotOnSale	The specified zone is not available for purchase.	400	The error message returned because you cannot create a DDH in the specified zone.

Error code	Error message	HTTP status code	Description
Forbidden	User not authorized to operate on the specified resource.	403	The error message returned because you are not authorized to create a DDH.
RegionUnauthorized	User has no authority to create instance in the specified region.	403	The error message returned because you are not authorized to create a DDH in the specified region.
Zone.NotOpen	The specified zone is not granted to you to buy resources yet.	403	The error message returned because you are not authorized to create a DDH in the specified zone.
InvalidDedicatedHostChargeType.NotFound	The DedicatedHostChargeType does not exist in our records.	404	The error message returned because the specified ChargeType parameter does not exist.

## 3 DescribeDedicatedHostTypes

You can call this operation to query details about supported DDH types in the specified region, or supported ECS instance type families on a DDH.

### Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to DescribeDedicatedHostTypes
RegionId	String	Yes	The ID of the region. For more information, call <a href="#">DescribeRegions</a> to obtain the latest region list.
DedicatedHostType	String	No	The type of the DDH. For more information, see <a href="#">Dedicated Host types</a> .
SupportedInstanceTypeFamily	String	No	The ECS instance type family supported by a DDH type.

### Response parameters

Name	Type	Description
DedicatedHostTypes	Array of <a href="#">DedicatedHostType</a>	The information about the DDH type.

### DedicatedHostType

Name	Type	Required
DedicatedHostType	String	The type of the DDH. <a href="#">open a ticket</a> Submit a ticket if you need more DDH types.
SupportedInstanceTypeFamilies	Array of <a href="#">SupportedInstanceTypeFamilySetType</a>	The ECS instance type family supported by the DDH type.
Sockets	Integer	The number of physical CPUs.
Cores	Integer	The number of cores in a physical CPU.
TotalVcpus	Integer	The total number of cores in a virtual CPU.
MemorySize	Float	The capacity of memory. Unit: GiB.

Name	Type	Required
LocalStorageCapacity	Long	The capacity of a local disk. Unit: GiB.
LocalStorageAmount	Integer	The number of local disks on a DDH.
LocalStorageCategory	String	The type of a local disk.

### SupportedInstanceTypeFamilySetType

Name	Type	Required
SupportedInstanceTypeFamily	String	The ECS instance type family supported by a DDH type.

### Samples

#### Sample requests

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

#### Sample 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/>
    </DedicatedHostType>
    <DedicatedHostType>
      <LocalStorageAmount>0</LocalStorageAmount>
      <Sockets>2</Sockets>
      <DedicatedHostType>ddh.sn2ne</DedicatedHostType>
      <DedicatedHostType>DDH.sn2ne</DedicatedHostType>
      <LocalStorageCapacity>0</LocalStorageCapacity>
      <SupportedInstanceTypeFamilies>
        <SupportedInstanceTypeFamily>ecs.sn2ne</SupportedInstanceTypeFamily>
      </SupportedInstanceTypeFamilies>
    </DedicatedHostType>
  </DedicatedHostTypes>
</DescribeDedicatedHostTypesResponse>
```

```

    </ SupportedI nstanceTyp eFamilies ></ FIG >
    < MemorySize > 224 . 0 </ MemorySize >
    < Cores > 32 </ Cores >
    < TotalVcpus > 56 </ TotalVcpus >
    < LocalStora geCategory />
  </ DedicatedH ostType >
</ DedicatedH ostTypes >
< RequestId > 5FE5FF06 - 3A33 - 4658 - 8495 - 6445FC54E3 27 </
RequestId >
</ DescribeDe dicatedHos tTypesResp onse >

```

## JSON format

```

{
  "DedicatedH ostTypes ":{
    "DedicatedH ostType ":[
      {
        "LocalStora geAmount ": 0 ,
        "Sockets ": 2 ,
        "DedicatedH ostType ":" ddh . sn1ne ",
        "LocalStora geCapacity ": 0 ,
        "SupportedI nstanceTyp eFamilies ":{
          "SupportedI nstanceTyp eFamily ":[
            " ecs . sn1ne ",
          ]
        },
        "MemorySize ": 1
        "Cores ": 32 ,
        "TotalVcpus ": 56 ,
        "LocalStora geCategory ":""
      },
      {
        "LocalStora geAmount ": 0 ,
        "Sockets ": 2 ,
        "DedicatedH ostType ":" dh . c60m83 . n1 ",
        "LocalStora geCapacity ": 0 ,
        "SupportedI nstanceTyp eFamilies ":{
          "SupportedI nstanceTyp eFamily ":[
            " ecs . n1 "
          ]
        },
        "MemorySize ": 1
        "Cores ": 32 ,
        "TotalVcpus ": 40 ," Maid ": 40 ,
        "LocalStora geCategory ":""" Maid ":""
      }
    ]
  },
  "RequestId ":" 9A0FE8A2 - 720C - 45AE - B2D9 - 813060FCBB F5 "
}

```

```
}
```

**Error codes**

<b>Error code</b>	<b>Error message</b>	<b>HTTP status code</b>	<b>Description</b>
<b>InternalError</b>	<b>The request processing task has failed due to an unknown error, exception or failure.</b>	<b>500</b>	<b>The error message returned when an unknown internal error occurs.</b>

## 4 DescribeDedicatedHosts

You can call this operation to query the details about one or more Dedicated Hosts (DDHs), including the physical performance specifications, virtual machine code, service status, and list of Elastic Compute Service (ECS) instances that you have created.

### Request parameters

Parameter	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set this parameter to DescribeDedicatedHosts.
RegionId	String	Yes	The region ID of the DDH. For more information, call <a href="#">DescribeRegions</a> to obtain the latest region list.
ZoneId	String	No	The zone ID of the DDH.
DedicatedHostIds	Array	No	The list of DDH IDs. You can enter a maximum of 100 DDH IDs at a time. Multiple DDH IDs are displayed as a JSON array, such as ["dh- xxxxxxxxxx", "dh- yyyyyyyyyy", ..., "dh- zzzzzzzzzz"]. Separate multiple IDs with a comma (,).
DedicatedHostName	String	No	The name of the DDH.
DedicatedHostType	String	No	The type of the DDH.
Status	String	No	The service status of the DDH. Valid values: <ul style="list-style-type: none"> <li>• Available (default value): specifies that the DDH is available for use.</li> <li>• Under-Assessment: specifies that the DDH has potential failures and may fail when you use it.</li> <li>• Permanent-Failure: specifies that the DDH has permanent failures. You cannot use the DDH.</li> </ul>

Parameter	Type	Required	Description
Tag . n . Key	String	No	DDHThe key of a tag of which n is from 1 to 20. Once you use this parameter, it cannot be a null string. It can be up to 64 characters in length. It cannot begin with "aliyun", "acs:", "http://", or "https://".
Tag . n . Value	String	No	DDHThe value of a tag of which n is a number from 1 to 20. Once you use this parameter , it can be a null string. It can be up to 128 characters in length. It cannot begin with "aliyun", "acs:", "http://", or "https://".
PageNumber	Integer	No	The number of the page to return. Default value: 1.
PageSize	Integer	No	The number of entries to return on each page. Maximum value: 100. Default value: 10.

#### Response parameters

Parameter	Type	Description
TotalCount	Integer	The total number of DDHs.
PageNumber	Integer	The page number of the returned DDH list.
PageSize	Integer	The number of entries returned on each page.
DedicatedHosts	Array of <a href="#">DedicatedHostAttributesType</a>	The details about DDHs.

#### DedicatedHostAttributesType

Parameter	Type	Description
DedicatedHostId	String	The ID of the DDH.
MachineId	String	The virtual machine code of the DDH.
DedicatedHostName	String	The name of the DDH.
DedicatedHostType	String	The type of the DDH.
Description	String	The description of the DDH.



Parameter	Type	Description
RegionId	String	The region ID of the DDH.
ZoneId	String	The zone ID of the DDH.
Sockets	Integer	The number of physical CPUs.
Cores	Integer	The number of cores in a CPU.
SupportedInstanceTypeFamilies	Array of <a href="#">SupportedInstanceTypeFamilySetType</a>	The ECS instance type family supported by the DDH.
Capacity	Array of <a href="#">DedicatedHostCapacity</a>	The performance specifications of the DDH.
Instances	Array of <a href="#">HostInstance</a>	The details about ECS instances that you have created on the DDH.
Status	String	The service status of the DDH. Valid values: Available, Under-Assessment, and Permanent-Failure.
CreationTime	String	The time when the DDH was created. The time format follows the <a href="#">ISO8601</a> standard, and the UTC time is used. The format is yyyy-MM-ddTHH:mm:ssZ.
ChargeType	String	The billing method of the DDH.
SaleCycle	String	The billing cycle of the subscription DDH.
ExpiredTime	String	The expiration time of the subscription DDH. The time format follows the <a href="#">ISO8601</a> standard, and the UTC time is used. The format is yyyy-MM-ddTHH:mm:ssZ.
OperationLocks	Array of <a href="#">OperationLockType</a>	The reason why DDH resources were locked.
AutoPlacement	String	Indicates whether the DDH was added to the automatic deployment resource pool. Valid values: <ul style="list-style-type: none"> <li>· on: indicates that the DDH was added to the automatic deployment resource pool.</li> <li>· off: indicates that the DDH was not added to the automatic deployment resource pool.</li> </ul>

### DedicatedHostCapacity

Parameter	Type	Description
TotalVcpus	Integer	The total number of cores in the vCPU.
AvailableVcpus	Integer	The remaining number of cores in the vCPU.
TotalMemory	Float	The total capacity of the memory. Unit: GiB.
AvailableMemory	Float	The remaining capacity of the memory. Unit: GiB.
TotalDisk	Integer	The total capacity of the local disk. Unit: GiB.
AvailableDisk	Integer	The remaining capacity of the local disk. Unit: GiB.
LocalStorageCategory	String	The type of the local disk.

### HostInstance

Parameter	Type	Description
InstanceId	String	The ID of the ECS instance that you created on the DDH.
InstanceType	String	The type of the ECS instance that you created on the DDH.

### SupportedInstanceTypeFamilySetType

Parameter	Type	Description
SupportedInstanceTypeFamily	String	The ECS instance type family supported by the DDH.

### OperationLocksType

Parameter	Type	Description
LockReason	Array of <a href="#">LockReasonType</a>	The reason why DDH resources were locked.

### LockReasonType

Parameter	Type	Description
LockReason	String	The type of the reason why DDH resources were locked. Valid value:  financial: indicates that your account has an overdue payment.

## Examples

### Sample request

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

### Sample success response

#### XML format

```
<DescribeDedicatedHostsResponse>
  <PageNumber>1</PageNumber>
  <DedicatedHosts>
    <DedicatedHost>
      <DedicatedHostId>dh-2ze3lmtckd-jw1pt8nr82</DedicatedHostId>
      <ChargeType>PostPaid</ChargeType>
      <Description/>
      <ResourceGroupId/>
      <SupportedInstanceTypes>
        <SupportedInstanceTypeFamily>ecs.se1ne</SupportedInstanceTypeFamily>
      </SupportedInstanceTypes>
      <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>dh2ze3lmtckdjw1pt8nr82Z</DedicatedHostName>
      <SaleCycle/>
      <AutoReleaseTime/>
      <Capacity>
        <AvailableVcpus>56</AvailableVcpus>
        <TotalMemory>448.0</TotalMemory>
        <TotalVcpus>56</TotalVcpus>
        <AvailableLocalStorage>0</AvailableLocalStorage>
        <TotalLocalStorage>0</TotalLocalStorage>
        <LocalStorageCategory/>
        <AvailableMemory>448.0</AvailableMemory>
      </Capacity>
      <OperationLocks/>
      <MachineId>d7a1bdde71-d7429097c3-6e44a0d1bb-db</MachineId>
```

```

    < ExpiredTime > 2999 - 09 - 08T16 : 00Z </ ExpiredTime >
  </ DedicatedHost >
  < DedicatedHost >
    < DedicatedHostId > dh - 2ze3lmtckd jw1pt8nr83 </ 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 > dhZ2ze3lmt ckdjw1pt8n r83Z </ DedicatedHostName >
  < SaleCycle />
  < AutoReleaseTime />
  < Capacity >
    < AvailableVcpus > 56 </ AvailableVcpus >
    < TotalMemory > 448 . 0 </ TotalMemory >
    < TotalVcpus > 56 </ TotalVcpus >
    < AvailableLocalStorage > 0 </ AvailableLocalStorage >
    < TotalLocalStorage > 0 </ TotalLocalStorage >
    < LocalStorageCategory />
    < AvailableMemory > 448 . 0 </ AvailableMemory >
  </ Capacity >
  < OperationLocks />
  < MachineId > f9b97a46c0 5b38c8c9cf e2b120f26c a6 </ MachineId >
  < ExpiredTime > 2999 - 09 - 08T16 : 00Z </ ExpiredTime >
  </ DedicatedHost >
</ DedicatedHosts >
< TotalCount > 2 </ TotalCount >
< PageSize > 10 </ PageSize >
< RequestId > C9E9EA51 - 6B74 - 409E - BA40 - 107126A200 D4 </ RequestId >
</ DescribeDedicatedHostsResponse >

```

## JSON format

```

{
  "PageNumber": 1,
  "DedicatedHosts": {
    "DedicatedHost": [
      {
        "DedicatedHostId": "dh - dedicatedhost1",
        "ChargeType": "PostPaid",
        "Description": "",
        "ResourceGroupId": "",
        "SupportInstanceTypeFamilies": {
          "SupportInstanceTypeFamily": [
            "ecs . se1ne"
          ]
        },
        "Instances": {
          "Instance": [

```

```

    ]
  },
  "Cores ": 32 ,
  " ZoneId ":" cn - beijing - c ",
  " CreationTi me ":" 2018 - 08 - 13T07 : 59Z ",
  " Sockets ": 2 ,
  " Status ":" Available ",
  " DedicatedH ostType ":" ddh . se1ne ",
  " RegionId ":" cn - beijing ",
  " DedicatedH ostName ":" dhZ2ze3lmt ckdjw1pt8n r82Z
",
  " SaleCycle ":"",
  " AutoReleas eTime ":"",
  " Capacity ":{
    " AvailableV cpus ": 56 ,
    " TotalMemor y ": 448 ,
    " TotalVcpus ": 56 ,
    " AvailableL ocalStorag e ": 0 ,
    " TotalLocal Storage ": 0 ,
    " LocalStora geCategory ":"",
    " AvailableM emory ": 448
  },
  " OperationL ocks ":{
    " OperationL ock ":[

    ]
  },
  " MachineId ":" xxxx ",
  " ExpiredTim e ":" 2999 - 09 - 08T16 : 00Z "
},
{
  " DedicatedH ostId ":" dh - dedicatedh ost2 ",
  " ChargeType ":" PostPaid ",
  " Descriptio n ":"",
  " ResourceGr oupId ":"",
  " SupportIns tanceTypeF amilies ":{
    " SupportIns tanceTypeF amily ":[
      " ecs . se1ne "
    ]
  },
  " Instances ":{
    " Instance ":[

    ]
  },
  " Cores ": 32 ,
  " ZoneId ":" cn - beijing - c ",
  " CreationTi me ":" 2018 - 08 - 13T07 : 59Z ",
  " Sockets ": 2 ,
  " Status ":" Available ",
  " DedicatedH ostType ":" ddh . se1ne ",
  " RegionId ":" cn - beijing ",
  " DedicatedH ostName ":" xxxxx ",
  " SaleCycle ":"",
  " AutoReleas eTime ":"",
  " Capacity ":{
    " AvailableV cpus ": 56 ,
    " TotalMemor y ": 448 ,
    " TotalVcpus ": 56 ,
    " AvailableL ocalStorag e ": 0 ,
    " TotalLocal Storage ": 0 ,
    " LocalStora geCategory ":"",
    " AvailableM emory ": 448
  }
}

```

```

    },
    "OperationLocks ":{
      " OperationLock ":[
        ]
      },
      " MachineId ":" f9b97a46c0 5b38c8c9cf e2b120f26x
xxx ",
      " ExpiredTime ":" 2999 - 09 - 08T16 : 00Z "
    }
  ]
},
" TotalCount ": 2 ,
" PageSize ": 10 ,
" RequestId ":" 9D5CC4F5 - 921A - 4E02 - B971 - 0DAF703407 BE "
}

```

### Error codes

Error code	Error message	HTTP status code	Description
DedicatedHostType.Invalid	The specified DedicatedHostType is invalid.	400	The error message returned because the specified DedicatedHostType parameter is invalid.
InternalServerError	The request processing has failed due to some unknown error,exception or failure.	500	The error message returned because an internal error has occurred.

## 5 DescribeDedicatedHostAutoRenew

You can call this operation to query the renewal status of one or more Subscription-based DDHs.

### Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform . Set the value to DescribeDedicatedHostAutoRenew
RegionId	String	Yes	The ID of the region where the DDH is created .
DedicatedHostIds	String	Yes	The list of DDH IDs. You can enter up to 100 DDH IDs in the list. Separate the IDs by commas (,).

### Response parameters

Name	Type	Required
DedicatedHostId	String	The ID of the DDH.
Duration	Integer	The duration of auto-renewal.
AutoRenewEnabled	Boolean	Indicates whether auto-renewal is enabled.
PeriodUnit	String	The unit of renewal duration. Possible values: Week   Month

Name	Type	Required
RenewalStatus	String	<p>Indicates whether a Subscription-based DDH has enabled automatic renewal. Possible values:</p> <ul style="list-style-type: none"> <li>AutoRenewal : Auto renewal is enabled.</li> <li>Normal : To be renewed.</li> <li>NotRenewal : Auto renewal is disabled. No notifications. You will receive notifications for renewal three days before the expiration time of a DDH subscription. You can set the DDH that is not set to be renewed to Normal and manually renew it (<a href="#">RenewDedicatedHosts</a>), or set the DDH to auto-renewal ( AutoRenewal ).</li> </ul>

## Samples

### Sample requests

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

### Sample responses

#### XML format

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



```
</ DescribeDe  dicatedHos  tAutoRenew  Response >
```

### JSON format

```
{
  "DedicatedHostIdRenewAttributes": {
    "DedicatedHostIdRenewAttribute": [
      {
        "Duration": 0,
        "DedicatedHostId": "dh - dedicatedhost1",
        "AutoRenewEnabled": false,
        "RenewalStatus": "Normal",
        "PeriodUnit": "Month"
      },
      {
        "Duration": 1,
        "DedicatedHostId": "dh - dedicatedhost2",
        "AutoRenewEnabled": true,
        "RenewalStatus": "AutoRenewal",
        "PeriodUnit": "Month"
      }
    ]
  },
  "RequestId": "04F0F334 - 1335 - 436C - A1D7 - 6C044FE733 68"
}
```

### Error codes

Error code	Error message	HTTP status code	Description
MissingParameter. DedicatedHostId	DedicatedHostId should not be null.	403	The error message returned when the value of <code>DedicatedHostIds</code> is empty. You must enter a value.
InvalidParameter. TooManyDedicatedHostIds	DedicatedHostId should be less than 100.	403	The error message returned when the number of DDH IDs is invalid. You can specify up to 100 DDH IDs at a time.

Error code	Error message	HTTP status code	Description
InvalidParameter. InvalidDedicatedHostId	The specified dedicatedHostId is not valid	403	The error message returned when the DedicatedHostIds parameter contains an invalid DDH ID.

## 6 ModifyDedicatedHostAttribute

---

You can call this operation to modify the information about a Dedicated Host (DDH), including the name, description, and service unavailability attributes of the DDH.

### Request parameters

Parameter	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set this parameter to <code>ModifyDedicatedHostAttribute</code> .
RegionId	String	Yes	The region ID of the DDH. For more information, call <a href="#">DescribeRegions</a> to obtain the latest region list.
DedicatedHostId	String	Yes	The ID of the DDH.
DedicatedHostName	String	No	The name of the DDH. The name is a string of 2 to 128 characters. It must begin with an English or a Chinese character. It can contain A-Z, a-z, Chinese characters, numbers, periods (.), colons (:), underscores (_), and hyphens (-).
Description	String	No	The description of the DDH. It cannot begin with <code>http://</code> or <code>https://</code> .

Parameter	Type	Required	Description
ActionOnMaintenance	String	No	<p>The method used to migrate the instances on the DDH when the DDH fails or needs to be repaired online. Valid values:</p> <ul style="list-style-type: none"> <li>· <b>Migrate</b>: specifies that the instances are migrated to another physical server and restarted.</li> <li>· <b>Stop</b>: specifies that all the instances on the DDH are stopped. If the DDH cannot be repaired, the instances are migrated to another physical server and restarted.</li> </ul> <p>When a cloud disk is attached to the DDH, the default value is Migrate.</p> <p>When a local disk is attached to the DDH, the default value is Stop.</p>
NetworkAttributes.SlbUdpTimeout	Integer	No	<p>The timeout period of UDP sessions that are established with Server Load Balancer (SLB). Unit: seconds. Valid values: [15, 310].</p>
NetworkAttributes.UdpTimeout	Integer	No	<p>The timeout period of UDP sessions that are established between users and cloud services running on the DDH. Unit: seconds. Valid values: [15, 310].</p>
AutoPlacement	String	No	<p>Specifies whether the DDH is added to the automatic deployment resource pool. If you create an instance on a DDH without specifying the <code>DedicatedHostId</code> parameter, Alibaba Cloud automatically selects a DDH from the resource pool to host the instance. Valid values:</p> <ul style="list-style-type: none"> <li>· <b>on</b>: adds the DDH to the automatic deployment resource pool.</li> <li>· <b>off</b>: does not add the DDH to the automatic deployment resource pool.</li> </ul>

### Response parameters

All are common response parameters. See [Common response parameters](#).

## Examples

### Sample request

```
https://ecs.aliyuncs.com/?Action=ModifyDedicatedHostAttribute
&RegionId=cn-hangzhou
&DedicatedHostId=dh-dedicatedhost1
&Description=hello-world
<Common request parameters>
```

### Sample success response

#### XML format

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

#### JSON format

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

## Error codes

Error code	Error message	HTTP status code	Description
InvalidInstanceName.Malformed	The specified parameter DedicatedHostName is not valid.	400	The error message returned because the specified DedicatedHostName parameter is invalid.
InvalidDescription.Malformed	The specified parameter Description is not valid.	400	The error message returned because the specified Description parameter is invalid.

Error code	Error message	HTTP status code	Description
<b>InvalidUser. Unauthorized</b>	The user is not authorized	401	The error message returned because you are not authorized to modify the information about this DDH.
<b>InvalidDedicatedHostId. NotFound</b>	The specified DedicatedHostId does not exist.	404	The error message returned because the specified DedicatedHostId parameter does not exist.
<b>InternalServerError</b>	The request processing has failed due to some unknown error,exception or failure.	500	The error message returned because an internal error has occurred.

## 7 ModifyDedicatedHostAutoRenewAttribute

You can call this operation to set or cancel auto-renewal for one or more Subscription-based DDHs.

### Description

Subscription-based DDHs are automatically renewed nine days before expiration . The payment is automatically made at 08:00:00 Chinese Standard Time (UTC+8). The payment is made the next day at the same time if automatic deduction fails. Automatic deduction stops after the payment is successful or the DDH is locked. Make sure that your account used for payment has sufficient balance.

### Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform . Set the value to <code>ModifyDedicatedHostAutoRenewAttribute</code>
RegionId	String	Yes	The ID of the region where the DDH is created .
DedicatedHostIds	String	Yes	The list of DDH IDs. You can enter up to 100 DDH IDs in the list. Separate the IDs with commas (,).
Period	String	No	The subscription duration. For valid values, see the description section in <code>PeriodUnit</code> .
PeriodUnit	String	No	The unit of the subscription duration. Valid values: <ul style="list-style-type: none"> <li>· Week: Week. Valid values of the <code>Period</code> parameter: {1, 2, 3}.</li> <li>· Month (default value): Month. Valid values of the <code>Period</code> parameter: {1, 2, 3, 6, 12}.</li> </ul>
AutoRenew	Boolean	No	Indicates whether a subscription-based DDH has enabled automatic renewal. Default value : <code>False</code> .

Name	Type	Required	Description
RenewalStatus	String	No	<p>Indicates whether a Subscription-based DDH has enabled automatic renewal. The <code>RenewalStatus</code> parameter take precedence over the <code>AutoRenew</code> parameter. Valid values:</p> <ul style="list-style-type: none"> <li><code>AutoRenewal</code> : Auto renewal is enabled.</li> <li><code>Normal</code> : To be renewed.</li> <li><code>NotRenewal</code> : Auto renewal is disabled. No notifications will be sent to notify you of the expiration date. You will receive notifications for renewal three days before the expiration time of a DDH subscription. You can set the DDH that is not renewed to Normal and manually renew it (<a href="#">RenewDedicatedHosts</a>), or set the DDH to auto-renewal ( <code>AutoRenewal</code> ).</li> </ul>
ClientToken	String	No	<p>Guarantees the idempotence of the request. The value is generated by a client and must be globally unique. Only ASCII characters are allowed. It can contain a maximum of 64 ASCII characters. For more information, see <a href="#">How to ensure idempotence</a>.</p>

### Response parameters

All are common response parameters. See [Common response parameters](#).

### Samples

#### Sample requests

```
https://ecs.aliyuncs.com/?Action=ModifyDedicatedHostAutoRenewAttribute
&RegionId=cn-hangzhou
&DedicatedHostIds=dh-dedicatedhost1,dh-dedicatedhost2
&AutoRenew=True
<CommonRequestParameters>
```

#### Sample responses



**XML format**

```
< ModifyDedicatedHostAutoRenewAttributeResponse >
  < RequestId > 2A4EA075 - CB5B - 41B7 - B0EB - 70D339F64D E7 </
  RequestId >
</ ModifyDedicatedHostAutoRenewAttributeResponse >
```

**JSON format**

```
{
  "RequestId": "2A4EA075 - CB5B - 41B7 - B0EB - 70D339F64D E7"
}
```

**Error codes**

Error code	Error message	HTTP status code	Description
IncorrectHostStatus	The current status of the resource does not support this operation.	403	The error message returned when the instance is expired and the operation is not allowed.
InvalidPeriodUnit. ValueNotSupported	The specified parameter PeriodUnit is not valid.	403	The error message returned when the specified unit of the subscription cycle is invalid.
InvalidParameter. TooManyDedicatedHostIds	No more than 100 DedicatedHostIds can be specified.	403	The error message returned when the number of DDH IDs is invalid. You can specify up to 100 DDH IDs at a time.
MissingParameter. DedicatedHostId	DedicatedHostId should not be null.	403	The error message returned when the value of DedicatedHostIds is empty. You must enter a value.

Error code	Error message	HTTP status code	Description
InvalidParameter. InvalidDedicatedHostId	The specified dedicatedHostIds is not valid.	403	The error message returned when the specified DedicatedHostIds parameter contains an invalid DDH ID.
InvalidParameter. Duration	The auto renewal duration should be one of the following values: 1 2 3 6 12.	403	The error message returned when the specified renewal duration is invalid. Valid values: [1,2,3,6,12].
InvalidParameter. RenewalStatus	The specified parameter RenewalStatus must be AutoRenewal NotRenewal or Normal.	403	The error message returned when the specified RenewalStatus parameter is invalid.
InvalidDedicatedHostId. NotFound	The specified DedicatedHostId does not exist.	404	The error message returned when the specified DedicatedHostIds list contains a DDH ID that does not exist.

## 8 ModifyDedicatedHostAutoReleaseTime

You can call this operation to set the release time or disable auto-release for a DDH.

At the scheduled time, Pay-As-You-Go DDHs will be released. Make sure that you have stopped using these DDHs, and backed up data as needed.

### Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform . Set the value to <code>ModifyDedicatedHostAutoReleaseTime</code> .
DedicatedHostId	String	Yes	The ID of the DDH that you want to automatically release.
AutoReleaseTime	String	No	The auto-release time of a DDH. If you do not enter the <code>AutoReleaseTime</code> parameter, auto-release is disabled. The DDH will not be released when the scheduled time is reached. <ul style="list-style-type: none"> <li>The difference between the current system time and the scheduled release time must be no less than half an hour and no more than three years.</li> <li>If the seconds parameter ( <code>ss</code> ) is set to a value other than <code>00</code> , then <code>00</code> is automatically selected.</li> </ul>

### Response parameters

#### Examples

##### Sample requests

```
https://ecs.aliyuncs.com/?Action=ModifyDedicatedHostAutoReleaseTime
&DedicatedHostId=dh-dedicatedhost1
&<CommonRequestParameters>
```

##### Sample responses

##### XML format

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

```
</ ModifyDedicatedHostAutoReleaseTimeResponse >
```

### JSON format

```
{
  "RequestId": "C0003E8B - B930 - 4F59 - ADC0 - 0E209A9012 A8 "
}
```

### Error codes

Error code	Error message	HTTP status code	Description
MissingParameter	DedicatedHostId should not be null.	400	The error message returned when DedicatedHostId is not specified. You must specify this parameter.
InvalidAutoReleaseTime.Malformed	The specified parameter autoReleaseTime is not valid.	400	The error message returned when the specified AutoReleaseTime parameter is invalid.
UnsupportedParameter	The parameters is unsupported.	400	The error message returned when the specified parameter is not supported.
ChargeTypeViolation	The operation is not permitted due to charge type of the dedicated host.	403	The error message returned when the DDH you release is not a Pay-As-You-Go DDH. You can only release Pay-As-You-Go DDHs.
NoSuchResource	The specified resource is not found.	404	The error message returned when the specified resource does not exist.

---

Error code	Error message	HTTP status code	Description
InternalError	The request processing has failed due to some unknown error, exception or failure.	500	The error message returned when an unknown internal error occurs.

## 9 ModifyInstanceDeployment

You can call this operation to change the host of an Elastic Compute Service (ECS) instance to another host in the same region.

### Description

You can call the `ModifyInstanceDeployment` operation to complete the following tasks:

- Change the deployment set of an ECS instance. For example, you can add an ECS instance to a deployment set or change the deployment set of an ECS instance. The `DeploymentSetId` parameter is required for this task.



#### Note:

You cannot change the deployment set when modifying the Dedicated Host (DDH) parameters, including `Tenancy`, `Affinity`, and `DedicatedHostId`.

- Migrate an ECS instance to a DDH. The following table describes some scenarios.

Scenario	Parameter setting	Execution result
Migrate an ECS instance from a shared host to a DDH.	<code>DedicatedHostId</code> : Specify the DDH ID.	The ECS instance is migrated to the specified DDH.
	Set the following parameters: <ul style="list-style-type: none"> <li>- <code>DedicatedHostId</code>: Leave this parameter empty.</li> <li>- <code>Tenancy</code>: Set this parameter to <i>host</i>.</li> </ul>	Alibaba Cloud automatically selects a DDH to host the ECS instance.
Migrate an ECS instance between two DDHs.	<code>DedicatedHostId</code> : Specify the DDH ID.	The ECS instance is migrated to the specified DDH.
	Set the following parameters: <ul style="list-style-type: none"> <li>- <code>DedicatedHostId</code>: Leave this parameter empty.</li> <li>- <code>Tenancy</code>: Set this parameter to <i>host</i>.</li> </ul>	Alibaba Cloud automatically selects a DDH to host the ECS instance.

When migrating an ECS instance to a DDH, note the following information:

- Ensure that the ECS instance is in the Stopped state before migration. The instance is automatically restarted after migration.
- You can migrate only VPC-connected ECS instances.
- The target DDH and the ECS instance to be migrated must have the same billing method.
- When you migrate an ECS instance from a shared host to a DDH, the billing method of the ECS instance must be pay-as-you-go. You cannot migrate subscription instances or preemptible instances.

#### Request parameters

Parameter	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set this parameter to <code>ModifyInstanceDeployment</code> .
RegionId	String	Yes	The region ID of the ECS instance. For more information, call <a href="#">DescribeRegions</a> to obtain the latest region list.
InstanceId	String	Yes	The ID of the ECS instance. The instance must be in the <code>Stopped</code> or <code>Running</code> state.
DeploymentSetId	String	No	The ID of the deployment set.
DedicatedHostId	String	No	The ID of the DDH. You can call the <a href="#">DescribeDedicatedHosts</a> operation to view the available DDHs.

Parameter	Type	Required	Description
Force	Boolean	No	<p>Specifies whether the host can be changed for the ECS instance. Valid values:</p> <ul style="list-style-type: none"> <li><code>true</code> : specifies that the host can be changed for the instance. You can also restart a Running instance, a Stopped subscription instance, or a Stopped pay-as-you-go instance that is still billed.</li> <li><code>false</code> : specifies that the host cannot be changed for the instance. You can only add the instance on the current host to a deployment set. This may cause the <code>ModifyInstanceDeployment</code> operation to fail.</li> </ul> <p>Default value: <code>false</code> .</p>
Tenancy	String	No	<p>Specifies whether the ECS instance is deployed on a DDH. Valid values:</p> <p><code>host</code> : specifies that the instance is deployed on a DDH.</p> <p>For more information, see the scenario description in <a href="#">ModifyInstanceDeployment</a>.</p>
Affinity	String	No	<p>Specifies whether the ECS instance is associated with a DDH. Valid values:</p> <ul style="list-style-type: none"> <li><code>host</code> : specifies that the instance is associated with a DDH. After a stopped instance that is not billed is restarted, it is still hosted on the original DDH.</li> <li><code>default</code> : specifies that the instance is not associated with a DDH. After a stopped instance that is not billed is restarted, if the original DDH has insufficient resources, the instance can be migrated to another DDH in the automatic deployment resource pool.</li> </ul> <p>When the instance is migrated from a shared host to a DDH, the default value is <code>default</code> .</p>



## Response parameters

All are common response parameters. See [Common response parameters](#).

## Examples

### Sample request

```
https://ecs.aliyuncs.com/?Action=ModifyInstanceDeployment
&RegionId=cn-hangzhou
&DeploymentSetId=ds-bp13v7bjnj9gisnlo1
<&CommonRequestParameters>
```

### Sample success response

#### XML format

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

#### JSON format

```
{
  "RequestId": "04F0F334-1335-436C-A1D7-6C044FE73368"
}
```

## Error codes

Error code	Error message	HTTP status code	Description
DeploymentSet.InvalidId	The specified Deployment Set id doesn't exist.	400	The error message returned because the specified DeploymentSetId parameter does not exist.
DeploymentSet.InstanceLimitExceeded	The number of instances on the specified Deployment Set has reached the limit.	403	The error message returned because the number of instances in the specified deployment set has exceeded the upper limit.

Error code	Error message	HTTP status code	Description
<b>IncorrectInstanceStatus</b>	The current status of the resource does not support this operation.	403	The error message returned because the operation is not supported while the resource is in the current state.
<b>DeploymentSet.ModificationFailed</b>	The modification of deployment set is currently impossible.	403	The error message returned because you cannot change the deployment set.
<b>InvalidInstanceId.NotFound</b>	The specified InstanceId does not exist.	404	The error message returned because the specified InstanceId parameter does not exist.
<b>InvalidDedicatedHostId.NotFound</b>	The specified DedicatedHostId does not exist.	404	The error message returned because the specified DedicatedHostId parameter does not exist.
<b>LackResource</b>	There's no enough resource on the specified dedicated host.	400	The error message returned because the specified DDH is fully loaded.
<b>OperationDenied.UnstoppedInstance</b>	Operation denied due to unstopped instance in your request.	400	The error message returned because the ECS instance that you want to migrate is not stopped. Stop the ECS instance before you migrate it to a DDH and try again.

Error code	Error message	HTTP status code	Description
InvalidPeriod.ExceededDedicatedHost	Instance expired date can't exceed dedicated host expired date.	400	The error message returned because the expiration time of the subscription ECS instance is later than that of the DDH.
InvalidInstanceNetworkType.NotSupport	The specified Instance network type not support.	404	The error message returned because the ECS instance that you want to migrate is not in a VPC. You can migrate only VPC-connected ECS instances.
InvalidInstanceChargeType.NotSupport	The Dedicated host not support the specified Instance charge type.	404	The error message returned because the type of the ECS instance that you want to migrate is not supported. When you migrate an ECS instance from a shared host to a DDH, the billing method of the ECS instance must be pay-as-you-go. You cannot migrate subscription instances or preemptible instances.
InvalidInstanceType.NotSupport	The Dedicated host not support the specified Instance type	404	The error message returned because the DDH does not support the type of the specified ECS instance.

Error code	Error message	HTTP status code	Description
InvalidDedicatedHostStatus. NotSupport	Operation denied due to dedicated host status	400	The error message returned because your account has an overdue payment or the DDH is not available.
InternalError	The request processing has failed due to some unknown error,exception or failure.	500	The error message returned because an internal error has occurred.
LackResource	There's no enough dedicated host resource.	400	The error message returned because the DDH resources in the automatic deployment resource pool are insufficient.
InvalidParameter.Param	Requested param is invalid.	400	The error message returned because the request parameters are invalid.
InvalidParam.Tenancy	Instance tenancy is illegal in such case.	400	The error message returned because the specified Tenancy parameter is invalid.
InvalidParam.DedicatedHostId	The specified dedicated host id is the same with present host id!	400	The error message returned because the specified DedicatedHostId parameter is the same as the ID of the DDH where the ECS instance is hosted.

Error code	Error message	HTTP status code	Description
InvalidDedicatedHostId. NotSupport	Cannot choose instance present host as destination host.	404	The error message returned because you use the DDH where the ECS instance is hosted as the target DDH of the instance. Use another DDH as the target DDH of the instance and try again.
InvalidDedicatedHost. NotFound	No available host.	404	The error message returned because no DDH is available.

## 10 RenewDedicatedHosts

You can call this operation to renew one or more Subscription-based DDHs. The credit balance is automatically deducted by default when you make a payment. Make sure that your payment method is valid.

### Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to <code>RenewDedicatedHosts</code>
DedicatedHostIds	String	Yes	The list of DDH IDs. You can enter up to 100 Subscription-based DDH IDs in the list. Multiple DDH IDs are displayed as JSON arrays, such as [ "dh- xxxxxxxxxx" , "dh- yyyyyyyyyy" , ... "dh- zzzzzzzzzz" ]. IDs are separated by commas (,).
Period	Integer	Yes	The renewal cycle. For valid values, see the description section in <code>PeriodUnit</code> .
PeriodUnit	String	No	The unit of renewal. Valid values: <ul style="list-style-type: none"> <li>Week: <code>Week</code>. Valid values of the <code>Period</code> parameter: {1, 2, 3, 4}.</li> <li>Month (default value): <code>Month</code>. Valid values of the <code>Period</code> parameter: { 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, 36, 48, 60}.</li> </ul>
ClientToken	String	No	Guarantees the idempotence of the request. The value is generated by a client and must be globally unique. Only ASCII characters are allowed. It can contain a maximum of 64 ASCII characters. For more information, see <a href="#">How to ensure idempotence</a> .

### Response parameters

All are common response parameters. See [Common response parameters](#).

## Samples

### Sample requests

```
https://ecs.aliyuncs.com/?Action=RenewDedicatedHosts
&RegionId=cn-hangzhou
&DedicatedHostIds=dh-dedicatedhost1,dh-dedicatedhost2
&Period=1
&PeriodUnit=Month
<CommonRequestParameters>
```

### Sample responses

#### XML format

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

#### JSON format

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

## Error codes

Error code	Error message	HTTP status code	Description
IdempotenceParamNotMatch	Request uses a client token in a previous request but is not identical to that request.	400	The error message returned when you reuse the ClientToken parameter but the other parameters for this request have changed.
InvalidClientToken.ValueNotSupported	The ClientToken provided is invalid.	400	The error message returned when the value of ClientToken is invalid. Only ASCII characters are valid.

Error code	Error message	HTTP status code	Description
<b>Incorrecthoststatus</b>	The current status of the resource does not support this operation.	403	The error message returned when the DDH cannot be renewed based on its current status.
<b>Invalidperiod</b>	The specified OwnerId is not valid.	400	The error message returned when the specified Peroid is invalid.
<b>LastTokenProcessing</b>	The last token request is processing.	403	The error message returned when the system is still executing the last request. Call this operation later.
<b>InvalidPeriodUnit. ValueNotSupported</b>	The specified parameter “Period” is not valid.	400	The error message returned when the specified PeriodUnit format is invalid.
<b>InvalidDedicatedHostId. NotFound</b>	The specified DedicatedHostId does not exist.	400	The error message returned when the specified DDH ID does not exist.
<b>InvalidStatus. Upgrading</b>	The dedicated host is upgrading , please try it later.	400	The error message returned when the specified DDH is upgrading. Call this operation later.



# 11 ReleaseDedicatedHost

To release a Pay-As-You-Go DDH, make sure that no ECS instance is deployed on the DDH.

## Request parameters

Name	Type	Required	Description
Action	String	Yes	The operation that you want to perform. Set the value to ReleaseDedicatedHost.
RegionId	String	Yes	The ID of the region where the DDH is created. For more information, call <a href="#">DescribeRegions</a> to obtain the latest region list.
DedicatedHostId	String	Yes	The ID of the DDH.

## Response parameters

All are common response parameters. See [Common response parameters](#).

## Examples

### Sample requests

```
https://ecs.aliyuncs.com/?Action=ReleaseDedicatedHost
&RegionId=cn-hangzhou
&DedicatedHostId=dh-dedicatedhost1
&<Common request parameters>
```

### Sample responses

#### XML format

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

#### JSON format

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

```
}

```

## Error codes

Error codes specific to this interface are as follows. For more information, see [API Error Center](#).

Error code	Error message	HTTP status code	Description
InstanceExist	Instance exists on the dedicated host.	400	The error message returned when ECS instances are deployed on the specified DDH. You must release these instances first.
OperationDenied. NotAuthorized	End user is not authorized to release the dedicated host.	403	The error message returned when you are not authorized to release the DDH.
InvalidDedicatedHostId. NotFound	The specified DedicatedHostId does not exist.	404	The error message returned when the specified DDH ID does not exist.
InternalServerError	The request processing has failed due to some unknown error, exception or failure.	500	The error message returned when an unknown internal error occurs.