

# Alibaba Cloud

## Elastic Compute Service Announcements & Updates









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# Document conventions

Style	Description	Example
 <b>Danger</b>	A danger notice 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.
 <b>Warning</b>	A warning notice 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 restart an instance.
 <b>Notice</b>	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Notice:</b> If the weight is set to 0, the server no longer receives new requests.
 <b>Note</b>	A note indicates supplemental instructions, best practices, tips, and other content.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click <b>Settings &gt; Network &gt; Set network type</b> .
<b>Bold</b>	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
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>

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# 1. Release notes

This topic describes the release notes of ECS features.

- For the release notes of images, see [Release notes](#) and [Release notes of Alibaba Cloud Linux 2](#).
- For the release notes of Server Migration Center (SMC), see [Release notes](#).

## September 2020

Feature	Description	Release date	Supported region	Documentation
Instance families	The g6t trusted general purpose instance family and c6t trusted compute optimized instance family are released.	2020-09-08	Some	<a href="#">Instance families</a>
Instance families	The g6a general purpose instance family, c6a compute optimized instance family, and r6a memory optimized instance family are released.	2020-09-07	Some	<a href="#">Instance families</a>
Instance families	The ebmg6a general purpose ECS Bare Metal Instance family, ebmc6a compute optimized ECS Bare Metal Instance family, and ebmr6a memory optimized ECS Bare Metal Instance family are released.	2020-09-07	Some	<a href="#">Instance families</a>

## August 2020

Feature	Description	Release date	Supported region	Documentation
Tags	Tags can be bound to more resources, including reserved instances.	2020-08-18	All	<a href="#">Overview</a>
Snapshots	Snapshots can be replicated across regions to improve service reliability and availability.	2020-08-14	Some	<a href="#">Copy a snapshot</a>

## April 2020

Feature	Description	Release date	Supported region	Documentation
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Feature	Description	Release date	Supported region	Documentation
Instance families	The ebmre6-6t memory optimized ECS Bare Metal Instance family with enhanced performance is released.	2020-04-28	All	<a href="#">Instance families</a>
Instance families	The re6 memory optimized instance family with enhanced performance is released.	2020-04-20	Some	<a href="#">Instance families</a>

## March 2020

Feature	Description	Release date	Supported region	Documentation
Local snapshots	The local snapshot feature is released for free public preview in Singapore.	2020-03-18	Some	<a href="#">Snapshot overview</a>
Instance families	The i2ne and i2gne instance families with local SSDs are released.	2020-03-11	All	<a href="#">Instance families</a>

## February 2020

Feature	Description	Release date	Supported region	Documentation
Local snapshots	The local snapshot feature is released for public preview in China (Hohhot). The number of supported regions is increasing.	2020-02-14	Some	<a href="#">Snapshot overview</a>

## January 2020

Feature	Description	Release date	Supported region	Documentation
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Feature	Description	Release date	Supported region	Documentation
Tags	A wide range of tag features are provided. You can use tags to control permissions of RAM users. You can also bind and modify tags by using Operation Orchestration Service (OOS).	2020-01-03	All	<ul style="list-style-type: none"> <li>Control access to resources by using tags</li> <li>Create a resource with a specific tag</li> <li>Use OOS to bind tags to multiple ECS resources at a time</li> <li>Use OOS to modify a tag value of multiple resources</li> </ul>
Local snapshots	The local snapshot feature is released for public preview. You can create local snapshots for ESSDs and restore a disk from a local snapshot within seconds. You can use the local snapshot feature for free during the public preview period.	2020-01-17	China (Hong Kong)	<a href="#">Snapshot overview</a>
Instance families	The d2s storage intensive big data instance family is released.	2020-01-17	Some	<a href="#">Instance families</a>
Instance families	The vgn6i lightweight GPU-accelerated compute optimized instance family is released.	2020-01-16	Some	<a href="#">Instance families</a>
Instance families	The s6 shared standard instance family is released.	2020-01-16	Some	<a href="#">Instance families</a>
Images	Technical support for the Windows Server 2008 and Windows Server 2008 R2 public images is discontinued. We recommend that you upgrade to Windows Server 2012 or later at your earliest convenience.	2020-01-14	All	<a href="#">Overview</a>

## November 2019

Feature	Description	Release date	Supported region	Documentation
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Feature	Description	Release date	Supported region	Documentation
Tags	The tag editor feature is released. You can use this feature to query up to 5,000 resource data entries across services and regions. You can also edit tags of the resources and export resource information.	2019-11-28	All	<a href="#">Use the tag editor to manage resource tags</a>
Snapshots	The quota for automatic snapshots is increased to 1,000.	2019-11-15	All	<a href="#">Snapshot overview</a>
Instance families	The g6 GPU-accelerated compute optimized instance family is released.	2019-11-14	Some	<a href="#">Instance families</a>
Instance families	The ebmg6 GPU-accelerated compute optimized ECS Bare Metal Instance family is released.	2019-11-14	Some	<a href="#">Instance families</a>

## October 2019

Feature	Description	Release date	Supported region	Documentation
Instance families	The hfc6, hfg6, and hfr6 instance families with high clock speeds are released.	2019-10-15	Some	<a href="#">Instance families</a>
Instance families	The ebmhfc6, ebmhf6, and ebmhr6 ECS Bare Metal Instance families are released.	2019-10-10	All	<a href="#">Instance families</a>

## September 2019

Feature	Description	Release date	Supported region	Documentation
Disk resizing	<ul style="list-style-type: none"> <li>Standard SSDs and ultra disks can be resized to up to 32 TiB.</li> <li>ESSDs can be resized online.</li> </ul>	2019-09-26	All	<ul style="list-style-type: none"> <li><a href="#">Overview</a></li> <li><a href="#">Resize disks online for Linux instances</a></li> </ul>
Instance families	The ebmc6, ebmg6, and ebmr6 ECS Bare Metal Instance families are released.	2019-09-24	All	<a href="#">Instance families</a>



Feature	Description	Release date	Supported region	Documentation
Instance families	The t6 burstable instance family is released.	2019-09-12	Some	<a href="#">Instance families</a>
Security groups	The maximum number of security group rules that can be contained in a security group is increased to 200.	2019-09-03	All	<a href="#">Limits</a>
Snapshots	The individual quotas for manual snapshots and automatic snapshots are increased to 256.	2019-09-02	All	<a href="#">Snapshot overview</a>

## August 2019

Feature	Description	Release date	Supported region	Documentation
Instance families	The ebmg6v GPU-accelerated compute optimized ECS Bare Metal Instance family is released.	2019-08-26	Some	<a href="#">Instance families</a>
Instance families	The ebmg6i GPU-accelerated compute optimized ECS Bare Metal Instance family is released.	2019-08-26	Some	<a href="#">Instance families</a>
Images	The image export feature is available in all Alibaba Cloud regions.	2019-08-21	All	<a href="#">Export a custom image</a>
Snapshots	The snapshot service is available for commercial use. All existing and new snapshots are billed on a pay-as-you-go basis.	2019-08-21	All	<a href="#">Snapshots</a>

## July 2019

Feature	Description	Release date	Supported region	Documentation
Instance families	The g6 general purpose instance family is released.	2019-07-30	Some	<a href="#">Instance families</a>
Instance families	The c6 compute optimized instance family is released.	2019-07-30	Some	<a href="#">Instance families</a>

Feature	Description	Release date	Supported region	Documentation
Instance families	The r6 memory optimized instance family is released.	2019-07-30	Some	<a href="#">Instance families</a>
Instance families	The ebmc5s compute optimized ECS Bare Metal Instance family with enhanced network performance is released.	2019-07-30	Some	<a href="#">Instance families</a>
Instance families	The ebmg5s general purpose ECS Bare Metal Instance family with enhanced network performance is released.	2019-07-30	Some	<a href="#">Instance families</a>
Instance families	The ebmr5s memory optimized ECS Bare Metal Instance family with enhanced network performance is released.	2019-07-30	Some	<a href="#">Instance families</a>

## June 2019

Feature	Description	Release date	Supported region	Documentation
Auto provisioning	Auto provisioning uses auto provisioning groups to schedule and maintain computing resources. This makes it easy to deploy clusters of instances across different billing methods, instance types, and zones.	2019-06-28	All	<a href="#">Auto Provisioning overview</a>
Enhanced SSDs (ESSDs)	The ESSD service is available for commercial use after the public prereview. Three performance levels of ESSDs are released.	2019-06-28	Some. For more information about the supported regions, see <a href="#">Elastic Block Storage FAQ</a> .	<a href="#">Enhanced SSDs</a>
vgn5i, a lightweight GPU-accelerated compute optimized instance family	GRID drivers are provided for vgn5i instances.	2019-06-19	All	<ul style="list-style-type: none"> <li><a href="#">Create an NVIDIA GPU-accelerated instance</a></li> <li><a href="#">Install NVIDIA GRID drivers on vgn6i or vgn5i Linux instances</a></li> </ul>

## May 2019

Feature	Description	Release date	Supported region	Documentation
Elastic Block Storage (EBS)	Subscription disks can be created by calling API operations.	2019-05-15	All	<a href="#">CreateDisk</a>

## April 2019

Feature	Description	Release date	Supported region	Documentation
Elastic network interfaces (ENIs)	A single ENI supports multiple private IP addresses.	2019-04-28	All	<a href="#">Assign secondary private IP addresses</a>
EBS	You can resize data disks of an ECS instance by extending their capacities online to meet your storage requirements without restarting the instance.	2019-04-24	All	<a href="#">Resize disks online for Linux instances</a>
EBS	System disks can be resized.	2019-04-24	All	<a href="#">Resize disks offline for Linux instances</a>
Snapshots	Snapshots can be created for expired disks.	2019-04-20	All	<ul style="list-style-type: none"> <li><a href="#">Create a snapshot</a></li> <li><a href="#">CreateSnapshot</a></li> </ul>

## March 2019

Feature	Description	Release date	Supported region	Documentation
Public images	Aliyun Linux 2 public images are released.	2019-03-27	All	<a href="#">Overview</a>
Instance families	The gn6i GPU-accelerated compute optimized instance family is released.	2019-03-21	All	<a href="#">Instance families</a>
Instance families	The sccgn6 GPU-accelerated compute optimized SCC instance family is released.	2019-03-20	All	<a href="#">Instance families</a>
Instance families	The vgn5i lightweight GPU-accelerated compute optimized instance family is released.	2019-03-19	All	<a href="#">Instance families</a>

Feature	Description	Release date	Supported region	Documentation
Reserved instances	The reserved instance feature is in invitational preview.	2019-03-18	All	<a href="#">Reserved instance overview</a>
Cloud Assistant	Cloud Assistant is available for ECS instances of the classic network type.	2019-03-01	All	<a href="#">Install the Cloud Assistant client</a>

## January 2019

Feature	Description	Release date	Supported region	Documentation
Event notification	Status change events and alert events for recycling of preemptible instances are supported.	2019-01-29	All	<a href="#">System events</a>

## December 2018

Feature	Description	Release date	Supported region	Documentation
Cloud Assistant	Cloud Assistant is available in the UK (London) region.	2018-12-31	All	<a href="#">Overview</a>
Preemptible instances	Preemptible instances are billed by second.	2018-12-17	All	<a href="#">Preemptible instances</a>
Instances	The release protection feature is supported.	2018-12-14	All	<a href="#">Enable or disable release protection for ECS instances</a>
ENIs	The DescribeNetworkInterfaces operation can be called to query the public IP address associated with an ENI.	2018-12-04	All	<a href="#">DescribeNetworkInterfaces</a>

## November 2018

Feature	Description	Release date	Supported region	Documentation
Custom images	Packer can be used to create custom images.	2018-11-30	All	<a href="#">Create a custom image by using Packer</a>
Instance families	The re4e memory optimized instance family with enhanced performance is released.	2018-11-30	All	<a href="#">Instance families</a>

Feature	Description	Release date	Supported region	Documentation
EBS	Subscription disks can be created separately and attached to subscription instances.	2018-11-29	All	<a href="#">Create a subscription disk</a>
Deployment sets	The Alibaba Cloud deployment set feature is released.	2018-11-16	All	<a href="#">Overview</a>

## October 2018

Feature	Description	Release date	Supported region	Documentation
Instance families	The f3 FPGA-accelerated compute optimized instance family is released.	2018-10-31	All	<a href="#">Instance families</a>
API best practices	API best practices are released in the ECS console.	2018-10-19	All	<a href="#">Create an instance by using the provided wizard</a>

## September 2018

Feature	Description	Release date	Supported region	Documentation
t5, a burstable instance family	The unlimited mode is available for the t5 burstable instance family.	2018-09-30	All	<a href="#">Unlimited mode</a>
Instance metadata	Information of O&M system events is included in instance metadata.	2018-09-14	All	<a href="#">Instance metadata</a>
Instance health status	The health status of each ECS instance is displayed on the instance details page.	2018-09-14	All	<a href="#">View the health status of an instance</a>
Instance families	The gn6v new generation GPU-accelerated instance family (V100 model) is released.	2018-09-12	All	<a href="#">Instance families</a>
Instance purchase	Multiple instances can be renewed at a time and historical instances can be purchased.	2018-09-07	All	<a href="#">Manually renew an instance</a>

Feature	Description	Release date	Supported region	Documentation
System events	API operations used to create or cancel simulated events are released.	2018-09-03	All	<ul style="list-style-type: none"> <li><a href="#">CreateSimulatedSystemEvents</a></li> <li><a href="#">CancelSimulatedSystemEvents</a></li> </ul>
Billing methods	A subscription instance can be converted into a pay-as-you-go instance.	2018-09-01	All	<a href="#">Change the billing method of an instance from subscription to pay-as-you-go</a>

## August 2018

Feature	Description	Release date	Supported region	Documentation
Local disks	The O&M of instances to which local disks are attached is optimized.	2018-08-31	All	<a href="#">Local disks</a>
Cloud Assistant	Cloud Assistant is supported in the ECS console.	2018-08-17	All	<a href="#">Cloud Assistant</a>
Instance families	SCC instance families are released.	2018-08-16	All	<a href="#">Instance families</a>

## July 2018

Feature	Description	Release date	Supported region	Documentation
Custom images	Images in the qcow2 format can be imported.	2018-07-30	All	<ul style="list-style-type: none"> <li><a href="#">Import custom images</a></li> <li><a href="#">ImportImage</a></li> </ul>
Security groups	Security group rules can be modified.	2018-07-25	All	<a href="#">Modify security group rules</a>
Tags	Tags can be bound to resources when you create the resources.	2018-07-20	All	<a href="#">Bind a tag</a>
Instance families	The ebmc4 compute optimized ECS Bare Metal Instance family is released.	2018-07-18	All	<a href="#">Instance families</a>

Feature	Description	Release date	Supported region	Documentation
Snapshots	The estimated remaining time for creating snapshots is displayed.	2018-07-17	All	<a href="#">Create a normal snapshot</a>
Account and user privileges	Quota management is supported.	2018-07-15	All	<a href="#">View quotas (old version)</a>
ESSDs	The ESSD service is in public preview in Beijing Zone G.	2018-07-14	Beijing Zone G	<a href="#">Cloud disks</a>
Instance troubleshooting	System logs and screenshots can be viewed.	2018-07-13	All	<a href="#">System logs and screenshots</a>
Security groups	You can submit a ticket to modify the maximum numbers of instances and security group rules that can be added to a security group.	2018-07-10	All	<a href="#">Limits</a>
Instance families	The ic5 compute intensive instance family is released.	2018-07-09	All	<a href="#">Instance families</a>

## June 2018

Feature	Description	Release date	Supported region	Documentation
Public images	Operating systems including Red Hat can be selected from public images to create ECS instances.	2018-06-29	All	<a href="#">Create an instance by using the provided wizard</a>
Instance upgrade	The configurations of pay-as-you-go instances can be upgraded or downgraded across instance families.	2018-06-15	All	<a href="#">Instance type changes</a>
Billing methods	Subscription instances can be renewed on a weekly basis.	2018-06-12	All	<a href="#">Manually renew an instance</a>
Security groups	Security groups in the classic network can be cloned to a VPC.	2018-06-06	All	<a href="#">Clone a security group</a>
Active O&M	Phase 2 of active O&M is brought online.	2018-06-01	All	<a href="#">Overview</a>

## May 2018

Feature	Description	Release date	Supported region	Documentation
Custom images	The image compliance tool is released.	2018-05-28	All	<a href="#">Use the image compliance tool</a>
System events	ECS system events are migrated to Cloud Monitor and can be queried.	2018-05-25	All	<a href="#">Overview</a>
Launch templates	The launch template feature is released.	2018-05-11	All	<a href="#">Create a launch template</a>

## April 2018

Feature	Description	Release date	Supported region	Documentation
Billing methods	A pay-as-you-go instance can be converted into a subscription instance.	2018-04-23	All	<a href="#">Change the billing method of an instance from pay-as-you-go to subscription</a>
Instance configuration downgrade	Configurations of an expired subscription instance can be downgraded when the instance is being renewed.	2018-04-13	All	<a href="#">Downgrade the configurations of an instance during renewal</a>

## March 2018

Feature	Description	Release date	Supported region	Documentation
GPU-accelerated instances	The NVIDIA GPU Cloud (NGC) GPU-accelerated container is supported.	2018-03-28	All	<a href="#">Deploy an NGC environment on gn5 instances</a>
System events	The system event feature is released.	2018-03-26	All	<a href="#">Overview</a>
ECS Bare Metal Instance	ECS Bare Metal Instance is released.	2018-03-14	All	<a href="#">ECS Bare Metal Instance</a>
Instance identifier	The ECS instance identifier feature is released.	2018-03-01	All	<a href="#">Instance identity</a>

## February 2018



Feature	Description	Release date	Supported region	Documentation
ECS API	The API operation used to check whether the configurations of ECS instances can be upgraded or downgraded is supported.	2018-02-10	All	<a href="#">DescribeResourcesModification</a>
Subscription instances	The number of days during which an instance stays expired before it is released is extended from 7 to 15.	2018-02-07	All	<a href="#">Subscription</a>
ECS API	API operations used to create and query resources are released.	2018-02-02	All	<a href="#">DescribeAvailableResource</a>

## December 2017

Feature	Description	Release date	Supported region	Documentation
No Fees for Stopped Instances (VPC-Connected)	The No Fees for Stopped Instances (VPC-Connected) feature is available for pay-as-you-go instances.	2017-12-14	All	<a href="#">No Fees for Stopped Instances (VPC-Connected)</a>
ENIs	The ENI feature is released.	2017-12-08	All	<a href="#">ENI overview</a>
FPGA-accelerated instance families	The f1 FPGA-accelerated compute optimized instance family is released.	2017-12-02	All	<a href="#">Instance families</a>
ECS API	The API operation used to create multiple instances at a time is released.	2017-12-01	All	<a href="#">RunInstances</a>
Instance troubleshooting	The real-time diagnostics feature is supported in the ECS console.	2017-12-01	All	<a href="#">Automatic diagnosis system</a>

## November 2017

Feature	Description	Release date	Supported region	Documentation
Cloud Migration Tool	The Cloud Migration Tool is released.	2017-11-27	All	<a href="#">What is SMC?</a>

Feature	Description	Release date	Supported region	Documentation
Security group rules	Security group rules can be imported and exported.	2017-11-23	All	<a href="#">Manage security group rules</a>
Subscription instances	The auto-renewal feature can be disabled for subscription instances.	2017-11-23	All	<a href="#">ModifyInstanceAutoRenewAttribute</a>
Billing methods	API operations used to create and renew weekly subscription instances are released.	2017-11-03	All	<a href="#">CreateInstance</a>
Instance RAM roles	RAM roles can be assigned to ECS instances.	2017-11-01	All	<a href="#">Overview</a>

## October 2017

Feature	Description	Release date	Supported region	Documentation
Elastic IP addresses (EIPs)	The public IP address of an instance in a VPC can be converted into an EIP.	2017-10-31	All	<a href="#">Convert an ECS public IP address to an EIP</a>
Preemptible instances	Preemptible Instance is released.	2017-10-18	All	<a href="#">Overview</a>
t5, a burstable instance family	The t5 burstable instance family is released.	2017-10-09	All	<a href="#">Overview</a>

## September 2017

Feature	Description	Release date	Supported region	Documentation
Billing methods	Bills of pay-as-you-go instances and disks are accurate to the second and generated by hour.	2017-09-29	All	<a href="#">Pay-as-you-go</a>
gn5i, an instance family	The gn5i GPU-accelerated compute optimized instance family is released. It is applicable to deep learning and online reasoning scenarios.	2017-09-23	All	<a href="#">Instance families</a>
ECS disk encryption	ECS disks can be encrypted.	2017-09-05	All	<a href="#">ECS disk encryption</a>

## August 2017

Feature	Description	Release date	Supported region	Documentation
Security group rules	Security group rules can be configured based on the 5-tuple.	2017-08-31	All	<a href="#">Security group quintuple rules</a>
ClassicLink	ClassicLink allows instances in the classic network can be connected to instances in VPCs.	2017-08-25	All	<a href="#">Network types</a>
Instance families	The new-generation ECS instances with high clock speed and local SSD-based instances that are equipped with the Skylake processor and support 25 GE networks are released.	2017-08-22	All	<a href="#">Instance families</a>
ECS API	The API operation used to change the bandwidth configurations of instances is released.	2017-08-17	All	<a href="#">ModifyInstanceNetworkSpec</a>
Custom images	Custom images can be imported.	2017-08-10	All	<a href="#">Import custom images</a>

## July 2017

Feature	Description	Release date	Supported region	Documentation
Images	Technical support for the Windows Server 2003 public images is discontinued. We recommend that you upgrade to Windows Server 2012 or later at your earliest convenience.	2017-07-20	All	<a href="#">Overview</a>
Security groups	Instances in a security group can be isolated from each other based on a security group rule.	2017-07-07	All	<a href="#">Isolation of instances within a security group</a>

## June 2017

Feature	Description	Release date	Supported region	Documentation
Classic network	If you create ECS instances for the first time at or after 12:00 (UTC+8) on June 16, 2017, you cannot select the classic network as the network for the instances. We recommend that you use a VPC.	2017-06-16	All	<a href="#">What is a VPC?</a>

## May 2017

Feature	Description	Release date	Supported region	Documentation
Instance RAM roles	The API operation used to manage RAM roles of instances is released.	2017-05-26	All	<a href="#">Use an instance RAM role by calling API operations</a>
Instance families	The network optimized instance family is released.	2017-05-23	All	<a href="#">Instance families</a>
Instance families	The d1 storage intensive instance family is released.	2017-05-12	All	<a href="#">Instance families</a>
Security groups	The default security group rule is modified to expose only ICMP ports, TCP port 22, and TCP port 3389.	2017-05-11	All	<a href="#">Default rules of the default security group</a>
Security groups	Security groups can be backed up, overwritten, and restored.	2017-05-10	All	<a href="#">Restore security group rules</a>

## April 2017

Feature	Description	Release date	Supported region	Documentation
SSH key pairs	The SSH key pair feature is released.	2017-04-25	All	<a href="#">Overview</a>

## February 2017

Feature	Description	Release date	Supported region	Documentation
Custom images	cloud-init is available for some custom images.	2017-02-24	All	<a href="#">Install cloud-init</a>

Feature	Description	Release date	Supported region	Documentation
Instance families	The i1 I/O optimized instance family with local SSDs is released.	2017-02-17	All	<a href="#">Instance families</a>
Snapshots	System disk snapshots can be used to create data disks.	2017-02-15	All	<a href="#">Create a disk from a snapshot</a>
Instance families	The gn4 GPU-accelerated compute optimized instance family is released.	2017-02-14	All	<a href="#">Instance families</a>

## January 2017

Feature	Description	Release date	Supported region	Documentation
Instance families	The ga1 visualization and compute optimized GPU-accelerated instance family is released.	2017-01-24	All	<a href="#">Instance families</a>
Instance families	The se1 dedicated instance family is released.	2017-01-21	All	<a href="#">Instance families</a>

## 2016

Feature	Description	Release date	Supported region	Documentation
Snapshots	Snapshot 2.0 is released.	2016-03-15	All	<a href="#">Snapshot overview</a>
Disk resizing	The feature of resizing system disks is released.	2016-01-15	All	<a href="#">Resize disks offline for Linux instances</a>

## 2015

Feature	Description	Release date	Supported region	Documentation
Custom images	The feature of importing custom images is released.	2015-12-15	All	<a href="#">Instructions for importing images</a>
Security groups	Security groups are supported in the ECS console.	2015-11-02	All	<a href="#">Create a security group</a>
Alibaba Cloud Marketplace images	Alibaba Cloud Marketplace images are available for commercial use.	2015-09-02	All	<a href="#">Alibaba Cloud Marketplace images</a>

Feature	Description	Release date	Supported region	Documentation
Tags	The tag feature is released.	2015-08-20	All	<a href="#">Overview</a>
System disks	The operating systems of pay-as-you-go instances can be replaced.	2015-08-13	All	<a href="#">Replace the system disk (public images)</a>
Custom images	Custom images can be shared.	2015-05-15	All	<a href="#">Shared images</a>
Disk resizing	Disks can be resized offline.	2015-04-20	All	<a href="#">Overview</a>
Custom images	The image replication feature is released.	2015-01-26	All	<a href="#">Copy custom images</a>

## 2014

Feature	Description	Release date	Supported region	Documentation
EBS	The independent disk feature is released.	2014-08-22	All	<a href="#">Block Storage overview</a>

## 2. Security announcement

### 2.1. Vulnerability announcement | Windows TCP/IP remote code execution vulnerability (CVE-2020-16898)

On October 13, 2020, Microsoft issued an alert for a remote code execution vulnerability that exists when the Windows TCP/IP stack improperly handles ICMPv6 Router Advertisement packets. Attackers can exploit this vulnerability to gain the ability to execute code on target servers or clients. Microsoft has rated the CVE-2020-16898 vulnerability as critical and provided monthly security patches to fix the vulnerability.

#### Detected vulnerability

- Vulnerability number: CVE-2020-16898
- Vulnerability severity: critical
- Affected versions:
  - Windows Server 2019
  - Windows Server 2019 (Server Core installation)
  - Windows Server, version 1903 (Server Core installation)
  - Windows Server, version 1909 (Server Core installation)
  - Windows Server, version 2004 (Server Core installation)

#### Details

A remote code execution vulnerability (CVE-2020-16898) exists when the Windows TCP/IP stack improperly handles ICMPv6 Router Advertisement packets. To exploit this vulnerability, an attacker would only need to send specially crafted ICMPv6 Router Advertisement packets to a remote Windows computer. The remote attacker does not need to get into contact with the target computer or obtain the corresponding permissions. The attacker can implement remote code execution (RCE) by sending attack data packets to the target computer. No exploits of the vulnerability have been disclosed.

#### Security suggestions

Install the patch for the CVE-2020-16898 vulnerability as soon as possible.


#### Solutions

You can use one of the following solutions to fix the vulnerability:

- Go to the Microsoft official website to download the corresponding patch. For more information, visit [CVE-2020-16898 | Windows TCP/IP Remote Code Execution Vulnerability](#).
- You can detect and fix the vulnerability in the Windows system vulnerabilities module of Alibaba Cloud Security Center. For more information, see [Windows system vulnerabilities](#).
- You can disable ICMPv6 RDNS to mitigate the risk.


You can run the following PowerShell command to disable ICMPv6 RDNS to prevent attackers from exploiting the vulnerability. This solution is applicable only to Windows 1709 or later.

```
netsh int ipv6 set int *INTERFACENUMBER* rbaseddnsconfig=disable
```

 **Note** After ICMPv6 RDNSS is disabled, you do not need to restart your computer for the modification to take effect.

You can also run the following PowerShell command to enable ICMPv6 RDNSS again. However, this will leave your computer vulnerable to attack again.

```
netsh int ipv6 set int *INTERFACENUMBER* rbaseddnsconfig=enable
```

 **Note** After ICMPv6 RDNSS is enabled, you do not need to restart your computer for the modification to take effect.

If you have any questions or feedback, [submit a ticket](#) to contact Alibaba Cloud.

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# 2.2. Vulnerability announcement | Linux kernel vulnerability (CVE-2020-14386)

On September 4, 2020, the CVE-2020-14386 Linux kernel vulnerability was published in the Linux community. The vulnerability is found in the `net/packet/af_packet.c` Linux kernel. Attackers can exploit the vulnerability to perform out-of-bounds writes, which can lead to risks such as unauthorized privilege escalation and container escapes.

## Detected vulnerability

- Vulnerability number: CVE-2020-14386
- Vulnerability severity: high
- Affected versions:
  - Linux distributions that have kernel versions later than 4.6
  - Affected ECS images:
    - Alibaba Cloud Linux 2.1903 (formerly Aliyun Linux 2.1903)
    - CentOS 8
    - Red Hat Enterprise Linux 8
    - Debian 9/10
    - OpenSUSE 15
    - SUSE Linux Enterprise Server 12/15
    - Ubuntu 18.04/20.04

## Details



CVE-2020-14386 is a memory corruption vulnerability on the kernel module. In Linux operating systems that have a kernel version later than 4.6, non-root users as well as users of Kubernetes and Docker containers may trigger this vulnerability. Attackers can exploit the vulnerability to perform out-of-bounds writes, which can lead to unauthorized privilege escalation and container escapes.

## Security suggestion

Install the patch for vulnerability CVE-2020-14386 at your earliest convenience.

## Solution

- Fix and upgrade the Alibaba Cloud Linux 2.1903 (formerly Aliyun Linux 2.1903) image.
  - i. Upgrade the kernel version by using one of the following methods:
    - Run the following command to upgrade the kernel to a version that has this vulnerability fixed:


```
yum -y install kernel-4.19.91-21.2.al7
```

- Run the following command to upgrade the kernel to the latest version:

```
yum -y update kernel
```

- ii. Run the following command to restart the system:

```
reboot
```

 **Note** For security upgrades for Alibaba Cloud Linux 2.1903, see [Alibaba Cloud Linux 2.1903 Security Advisories](#).

- For more information about how to upgrade SUSE Linux Enterprise Server, Ubuntu, and Debian images, visit [CVE-2020-14386](#), [USN-4489-1: Linux kernel vulnerability](#), and [Security Tracker CVE-2020-14386](#).

If you have any requests or feedback, [submit a ticket](#) to contact Alibaba Cloud.

## Announcing party

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# 2.3. Vulnerability announcement | Zero-day vulnerabilities in VM escape

At the 8th Internet Security Conference 2020 (ISC 2020), the zero-day vulnerabilities in QEMU/KVM VM escape were publicized. Zero-day vulnerabilities in VM escape can be exploited to read and write unauthorized data up to 0xffffffff (that is 4 GB in size) from a heap and enable a complete VM escape. Alibaba Cloud has fixed these vulnerabilities.

## Detected vulnerability

The zero-day vulnerabilities in QEMU/KVM VM escape were first exposed in the Tianfu Cup 2019 International Cybersecurity Contest on November 17, 2019. At the ISC 2020 held on August 13th, the vulnerabilities were publicized. Zero-day vulnerabilities in VM escape can be exploited to read and write unauthorized data up to 0xffffffff (that is 4 GB in size) from a heap and enable a complete VM escape. Code can then be executed in the host and result in serious information leaks. So far, QEMU has not provided any official patches for the vulnerabilities.

## Solution

Alibaba Cloud has fixed these vulnerabilities as of December 2019. You do not need to perform any operations to fix the vulnerabilities.

If you have any questions or feedback, [submit a ticket](#) to contact Alibaba Cloud.

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# 2.4. Vulnerability announcement | Windows SMBv3 remote code execution vulnerability (CVE-2020-0796)

Microsoft released a patch for vulnerability CVE-2020-0796 on March 12, 2020. CVE-2020-0796 is a remote code execution vulnerability in Windows Server Message Block 3.1.1 (SMBv3). An attacker who successfully exploited the vulnerability can gain the ability to execute code on the target server or client. Alibaba Cloud has synchronized this update to the Windows system update source. We recommend that you update the operating system of your ECS instance with the latest patches at your earliest convenience.

## Detected vulnerability

- Vulnerability number: CVE-2020-0796
- Vulnerability severity: critical
- Patch update date: March 12, 2020
- Vulnerability location: SMBv3 on Windows 10 and Windows Server
- Affected versions:
  - Windows 10 versions 1903 and 1909
  - Windows Server Version 1903
  - Windows Server Version 1909

 **Note** As of April 1, 2020, Alibaba Cloud has updated the security patch for the Windows Server version 1909 public image against vulnerability CVE-2020-0796. You do not need to update the patch again when you use this public image to create an ECS instance or replace the system disk of the instance in the ECS console.

## Details

A remote code execution vulnerability exists in the way that the Microsoft SMBv3 protocol handles some requests. An attacker who successfully exploited the vulnerability can gain the ability to execute code on the target server or client.

- To exploit the vulnerability against a server, an unauthenticated attacker could send a specially crafted packet to a target SMBv3 server.
- To exploit the vulnerability against a client, an unauthenticated attacker can configure a malicious SMBv3 server and convince a user to connect to the server.

## Security suggestion

Install the patch for vulnerability CVE-2020-0601 at your earliest convenience.

## Solution

You can use one of the following methods to install the patch for vulnerability CVE-2020-0796:

- Method 1: Use the Windows Update program to install the new security updates or cumulative updates released in March 2020.
- Method 2: Visit the official Microsoft website to download the patch.
  - i. Download and install the service stack update KB4541338.
    - Download URL: [KB4541338](#).
    - For Windows Server version 1909, download the service stack update from [windows10.0-kb4541338-x64](#).
  - ii. Download and install the cumulative update KB4551762.
    - Download URL: [KB4551762](#).
    - For Windows Server version 1909, download the cumulative update from [windows10.0-kb4551762-x64](#).
  - iii. Restart the operating system of the ECS instance.

If you have any questions or feedback, [submit a ticket](#) to contact Alibaba Cloud.

## References

- [Security announcement from Microsoft](#)
- [Help documentation for the patch](#)

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# 2.5. Vulnerability announcement | Windows CryptoAPI spoofing vulnerability (CVE-2020-0601)

Microsoft released a patch for vulnerability CVE-2020-0601 on January 14, 2020. CVE-2020-0601 is a vulnerability that malicious parties can exploit to bypass the validation mechanisms of Windows CryptoAPI. This vulnerability allows malicious parties to spoof code-signing certificates to sign malware, which makes the malware seen as originating from a trusted source. Alibaba Cloud has synchronized this update to the Windows system update source. We recommend that you update the operating system of your ECS instance with the latest patches at your earliest convenience.

## Detected vulnerability

- Vulnerability number: CVE-2020-0601
- Vulnerability severity: critical
- Patch update time: January 14, 2020
- Affected versions:
  - Windows 10
  - Windows Server 2016
  - Windows Server 2019
  - Windows Server Version 1809
  - Windows Server Version 1903
  - Windows Server Version 1909

## Details

Vulnerability CVE-2020-0601 exists in the way Windows CryptoAPI (Crypt32.dll) validates Elliptic Curve Cryptography (ECC) certificates, and poses critical security risks to the following trusted entities:

- HTTPS connections
- Signed files and emails
- Signed executable programs that are started in user mode

Malicious parties can exploit this vulnerability to spoof code-signing certificates that can be used to sign malicious files or to launch man-in-the-middle attacks to decrypt confidential information over user connections to the affected software.

## Security suggestion

Install the patch for vulnerability CVE-2020-0601 at your earliest convenience.

## Solution

You can use one of the following methods to install the patch for vulnerability CVE-2020-0601:

- Method 1: Use the Windows Update program to install the new security updates or cumulative updates released in January 2020.
- Method 2: Visit the official Microsoft website to download the patch from [CVE-2020-0601 | Windows CryptoAPI Spoofing Vulnerability](#).

If you have any questions or feedback, [submit a ticket](#) to contact Alibaba Cloud.

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