

# Alibaba Cloud

## FPGA as a Service Release Notes

Document Version: 20210528

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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</b> > <b>Network</b> > <b>Set network type</b> .
<b>Bold</b>	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
<code>Courier font</code>	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 Elastic Compute Service (ECS) features.

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

## April 2021

Feature	Description	Release date	Region	References
Instance family	The g7 general purpose instance family, c7 compute optimized instance family, and r7 memory optimized instance family are released.	2021-04-19	Some	<a href="#">Instance families</a>
Image	Alibaba Cloud Linux 3 public images are released.	2021-04-16	All	<a href="#">Overview</a>
Reserved instance	Reserved instances can be applied to instances of more instance families.	2021-04-15	All	<a href="#">Overview</a>
Snapshot	The instance snapshot feature is released. You can simultaneously create snapshots for multiple disks on an instance by creating a snapshot for the instance. This ensures a consistent write order of data.	2021-04-06	Some	<a href="#">Create snapshots for multiple disks together by creating an instance snapshot</a>
Snapshot	The application-consistent snapshot feature is released. You can use application-consistent snapshots for rollback operations to ensure that applications start in a consistent state.	2021-04-06	Some	<a href="#">Enable the application-consistent snapshot feature</a>

## March 2021

Feature	Description	Release date	Region	References
Instance family	The g7t security-enhanced general purpose instance family, c7t security-enhanced compute optimized instance family, and r7t security-enhanced memory optimized instance family are released.	2021-03-31	Some	<ul style="list-style-type: none"><li>• <a href="#">Instance families</a></li><li>• <a href="#">Security-enhanced instance families</a></li></ul>

Feature	Description	Release date	Region	References
Instance family	The ebmhfg7 general purpose ECS Bare Metal Instance family with high clock speeds, ebmhfc7 compute optimized ECS Bare Metal Instance family with high clock speeds, and ebmhfr7 memory optimized ECS Bare Metal Instance family with high clock speeds are released.	2021-03-03	Some	<a href="#">Instance families</a>

## February 2021

Feature	Description	Release date	Region	References
Instance family	The i3g instance family with local SSDs is released.	2021-02-26	All	<a href="#">Instance families</a>
Instance family	The g7ne general purpose instance family with enhanced network performance is released.	2021-02-09	Some	<a href="#">Instance families</a>

## January 2021

Feature	Description	Release date	Region	References
Network	The maximum transmission unit (MTU) values of network interface controllers (NICs) can be specified and the Jumbo Frame feature can be enabled for instances of some instance types.	2021-01-29	Some	<a href="#">Set the MTU size of an NIC</a>
Instance family	The gn7 GPU-accelerated compute optimized instance family is released.	2021-01-12	Some	<a href="#">Instance families</a>

## December 2020

Feature	Description	Release date	Region	References
faasutil	faasutil is a next-generation command line tool provided by Alibaba Cloud FPGA as a Service (FaaS). This tool can make FPGA-accelerated instances easier to use, and more stable, secure, and scalable.	2020-12-08	Some	<ul style="list-style-type: none"><li>• <a href="#">Obtain faasutil</a></li><li>• <a href="#">Use faasutil</a></li></ul>

Feature	Description	Release date	Region	References
Snapshot	The instant access feature is available for public preview in the China (Hohhot) region. The number of supported regions is increasing.	2020-12-03	Some	<a href="#">Enable or disable the instant access feature</a>

## November 2020

Feature	Description	Release date	Region	References
Instance family	The re6p persistent memory optimized instance family is released.	2020-11-04	Some	<a href="#">Instance families</a>
Instance family	The i3 instance family with local SSDs is released.	2020-11-03	Some	<a href="#">Instance families</a>

## October 2020

Feature	Description	Release date	Region	References
Instance family	The g6se storage enhanced instance family is released.	2020-10-23	Some	<a href="#">Instance families</a>

## September 2020

Feature	Description	Release date	Region	References
Preemptible instance	When you create a preemptible instance by calling an API operation, you can configure the preemptible instance to have no protection period.	2020-09-25	All	<ul style="list-style-type: none"><li><a href="#">Overview</a></li><li><a href="#">RunInstances</a></li></ul>
Savings plan	Savings plans are provided as discount plans that can be applied to offset the bills of pay-as-you-go instances, excluding preemptible instances.	2020-09-18	All	<ul style="list-style-type: none"><li><a href="#">Overview</a></li><li><a href="#">Savings plans</a></li><li><a href="#">Purchase and apply savings plans</a></li></ul>

Feature	Description	Release date	Region	References
Instance family	The g6t security-enhanced general purpose instance family and c6t security-enhanced compute optimized instance family are released.	2020-09-08	Some	<ul style="list-style-type: none"><li>• <a href="#">Instance families</a></li><li>• <a href="#">Security-enhanced instance families</a></li></ul>
Instance family	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 family	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	Region	References
Tag	Tags can be bound to more resources, including reserved instances.	2020-08-18	All	<a href="#">Overview</a>
Snapshot	Snapshots can be replicated across regions to improve service reliability and availability.	2020-08-14	Some	<a href="#">Copy a snapshot</a>

## June 2020

Feature	Description	Release date	Region	References
Instance family	The d2c compute intensive big data instance family is released.	2020-06-23	Some	<a href="#">Instance families</a>
Instance family	The scchfc6 compute optimized Super Computing Cluster (SCC) instance family with high clock speeds, scchfg6 general purpose SCC instance family with high clock speeds, and scchfr6 memory optimized SCC instance family with high clock speeds are released.	2020-06-23	All	<a href="#">Instance families</a>



Feature	Description	Release date	Region	References
Instance family	The ebmc6e compute optimized ECS Bare Metal Instance family with enhanced performance, ebmg6e general purpose ECS Bare Metal Instance family with enhanced performance, and ebmr6e memory optimized ECS Bare Metal Instance family with enhanced performance are released.	2020-06-23	All	<a href="#">Instance families</a>
Storage capacity unit (SCU)	SCUs can be used to offset the pay-as-you-go bills of different storage resources, such as disks, Object Storage Service (OSS) buckets, Apsara File Storage NAS file systems, and snapshots.	2020-06-23	All	<ul style="list-style-type: none"> <li><a href="#">Overview</a></li> <li><a href="#">Storage capacity units</a></li> <li><a href="#">Usage rules</a></li> </ul>
Elastic Block Storage (EBS)	Sequence numbers of disks in ECS instances can be queried.	2020-06-16	All	<a href="#">Query the serial number of a disk</a>
Network	Virtual private clouds (VPCs) of ECS instances can be changed in the ECS console. This feature is in invitational preview.	2020-06-10	Some	<a href="#">Change the VPC of an ECS instance</a>
Enhanced SSD (ESSD)	ESSDs of the PL0 performance level are in public preview in the China (Hangzhou) and China (Beijing) regions. The number of supported regions is increasing.	2020-06-10	Some	<ul style="list-style-type: none"> <li><a href="#">ESSDs</a></li> <li><a href="#">EBS performance</a></li> </ul>
Local disk-related system event	Events about local disk damages can be queried, and damaged local disks can be isolated in the ECS console.	2020-06-09	All	<a href="#">Isolate damaged local disks in the ECS console</a>
Instance family	The hfg7 general purpose instance family with high clock speeds, hfc7 compute optimized instance family with high clock speeds, and hfr7 memory optimized instance family with high clock speeds are released.	2020-06-09	Some	<a href="#">Instance families</a>

Feature	Description	Release date	Region	References
Instance family	The g6e general purpose instance family with enhanced performance, c6e compute optimized instance family with enhanced performance, and r6e memory optimized instance family with enhanced performance are released.	2020-06-09	All	<a href="#">Instance families</a>
Instance family	The ebmr6p non-volatile memory optimized ECS Bare Metal Instance family with enhanced performance is released.	2020-06-09	Some	<a href="#">Instance families</a>

## May 2020

Feature	Description	Release date	Region	References
Image	Technical support for the CoreOS Container Linux public images is discontinued. CoreOS Container Linux has reached its end of life, and no more security patches are provided. For security concerns, we recommend that you no longer use CoreOS Container Linux images. Alibaba Cloud will soon release Fedora CoreOS public images as a replacement.	2020-05-26	All	<a href="#">Release notes</a>
Reserved instance	The normalization factor of instance types can be queried to help understand the computing power requirements in the splitting and merging of reserved instances and the size flexibility of regional reserved instances.	2020-05-14	All	<ul style="list-style-type: none"><li>• <a href="#">Overview</a></li><li>• <a href="#">View normalization factors</a></li></ul>

## April 2020

Feature	Description	Release date	Region	References
Instance family	The ebmr6-6t memory optimized ECS Bare Metal Instance family with enhanced performance is released.	2020-04-28	All	<a href="#">Instance families</a>

Feature	Description	Release date	Region	References
Instance family	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	Region	References
Instance family	The i2ne and i2gne instance families with local SSDs are released.	2020-03-11	All	<a href="#">Instance families</a>

## January 2020

Feature	Description	Release date	Region	References
Tag	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>• <a href="#">Control access to resources by using tags</a></li> <li>• <a href="#">Create a resource with a specific tag</a></li> <li>• <a href="#">Use OOS to bind tags to multiple ECS resources at a time</a></li> <li>• <a href="#">Use OOS to modify a tag value of multiple resources</a></li> </ul>
Instance family	The d2s storage intensive big data instance family is released.	2020-01-17	Some	<a href="#">Instance families</a>
Instance family	The vgn6i lightweight GPU-accelerated compute optimized instance family is released.	2020-01-16	Some	<a href="#">Instance families</a>
Instance family	The s6 shared standard instance family is released.	2020-01-16	Some	<a href="#">Instance families</a>
Image	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>

## December 2019

Feature	Description	Release date	Region	References
Storage capacity unit (SCU)	40 GiB, 100 GiB, and 500 GiB are added as capacity options for SCUs.	2019-12-05	Some	<a href="#">Overview</a>

## November 2019

Feature	Description	Release date	Region	References
Tag	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 the tags of resources and export resource information.	2019-11-28	All	<a href="#">Use the tag editor to manage resource tags</a>
Snapshot	The quota for automatic snapshots is increased to 1,000.	2019-11-15	All	<a href="#">Snapshot overview</a>
Instance family	The g6e GPU-accelerated compute optimized instance family is released.	2019-11-14	Some	<a href="#">Instance families</a>
Instance family	The ebmg6e 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	Region	References
Instance family	The hfc6, hfg6, and hfr6 instance families with high clock speeds are released.	2019-10-15	Some	<a href="#">Instance families</a>
Instance family	The ebmhfc6, ebmhfg6, and ebmhfr6 ECS Bare Metal Instance families are released.	2019-10-10	All	<a href="#">Instance families</a>

## September 2019

Feature	Description	Release date	Region	References
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Feature	Description	Release date	Region	References
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 family	The ebmc6, ebmg6, and ebmr6 ECS Bare Metal Instance families are released.	2019-09-24	All	<a href="#">Instance families</a>
Instance family	The t6 burstable instance family is released.	2019-09-12	Some	<a href="#">Instance families</a>
Security group	The maximum number of security group rules that a security group can contain is increased to 200.	2019-09-03	All	<a href="#">Limits</a>
Snapshot	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	Region	References
Instance family	The ebmg6v GPU-accelerated compute optimized ECS Bare Metal Instance family is released.	2019-08-26	Some	<a href="#">Instance families</a>
Instance family	The ebmg6i GPU-accelerated compute optimized ECS Bare Metal Instance family is released.	2019-08-26	Some	<a href="#">Instance families</a>
Image	The image export feature is available in all Alibaba Cloud regions.	2019-08-21	All	<a href="#">Export a custom image</a>
Snapshot	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	Region	References
Instance family	The g6 general purpose instance family is released.	2019-07-30	Some	<a href="#">Instance families</a>
Instance family	The c6 compute optimized instance family is released.	2019-07-30	Some	<a href="#">Instance families</a>
Instance family	The r6 memory optimized instance family is released.	2019-07-30	Some	<a href="#">Instance families</a>
Instance family	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 family	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 family	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	Region	References
Auto Provisioning	Auto Provisioning uses auto provisioning groups to schedule and maintain compute 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>
ESSD	The ESSD service is available for commercial use after the public preview is complete. 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="#">ESSDs</a>

Feature	Description	Release date	Region	References
vgn5i, 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	Region	References
EBS	Subscription disks can be created by calling API operations.	2019-05-15	All	<a href="#">CreateDisk</a>

## April 2019

Feature	Description	Release date	Region	References
Elastic network interface (ENI)	A single ENI can be assigned 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>
Snapshot	Snapshots can be created for expired disks.	2019-04-20	All	<ul style="list-style-type: none"><li>• <a href="#">Create a normal snapshot</a></li><li>• <a href="#">CreateSnapshot</a></li></ul>

## March 2019

Feature	Description	Release date	Region	References
Public image	Aliyun Linux 2 public images are released.	2019-03-27	All	<a href="#">Overview</a>

Feature	Description	Release date	Region	References
Instance family	The gn6i GPU-accelerated compute optimized instance family is released.	2019-03-21	All	<a href="#">Instance families</a>
Instance family	The sccgn6 GPU-accelerated compute optimized SCC instance family is released.	2019-03-20	All	<a href="#">Instance families</a>
Instance family	The vgn5i lightweight GPU-accelerated compute optimized instance family is released.	2019-03-19	All	<a href="#">Instance families</a>
Reserved instance	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 in the classic network.	2019-03-01	All	<a href="#">Install the Cloud Assistant client</a>

## January 2019

Feature	Description	Release date	Region	References
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	Region	References
Cloud Assistant	Cloud Assistant is available in the UK (London) region.	2018-12-31	All	<a href="#">Overview</a>
Preemptible instance	Preemptible instances are billed by second.	2018-12-17	All	<a href="#">Preemptible instances</a>
Instance	The release protection feature is supported.	2018-12-14	All	<a href="#">Enable or disable release protection for ECS instances</a>
ENI	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	Region	References
Custom image	Packer can be used to create custom images.	2018-11-30	All	<a href="#">Create a custom image by using Packer</a>
Instance family	The re4e memory optimized instance family with enhanced performance is released.	2018-11-30	All	<a href="#">Instance families</a>
EBS	Subscription disks can be separately created and attached to subscription instances.	2018-11-29	All	<a href="#">Create a subscription disk</a>
Deployment set	The deployment set feature is released.	2018-11-16	All	<a href="#">Overview</a>

## October 2018

Feature	Description	Release date	Region	References
Instance family	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 wizard</a>

## September 2018

Feature	Description	Release date	Region	References
t5, 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 family	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	Region	References
System event	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 method	Subscription instance can be changed into pay-as-you-go instances.	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	Region	References
Local disk	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="#">Overview</a>
Instance family	SCC instance families are released.	2018-08-16	All	<a href="#">Instance families</a>

## July 2018

Feature	Description	Release date	Region	References
Custom image	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 group	Security group rules can be modified.	2018-07-25	All	<a href="#">Modify security group rules</a>
Tag	Tags can be bound to resources when you create the resources.	2018-07-20	All	<a href="#">Bind a tag</a>
Instance family	The ebmc4 compute optimized ECS Bare Metal Instance family is released.	2018-07-18	All	<a href="#">Instance families</a>
Snapshot	The estimated remaining time required to create snapshots is displayed.	2018-07-17	All	<a href="#">Create a normal snapshot</a>

Feature	Description	Release date	Region	References
Account and user privileges	Quota management is supported.	2018-07-15	All	<a href="#">View quotas (old version)</a>
ESSD	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 group	A ticket can be submitted 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 family	The ic5 compute intensive instance family is released.	2018-07-09	All	<a href="#">Instance families</a>

## June 2018

Feature	Description	Release date	Region	References
Public image	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 wizard</a>
Instance configuration 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 method	Subscription instances can be renewed on a weekly basis.	2018-06-12	All	<a href="#">Manually renew an instance</a>
Security group	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	Region	References
Custom image	The image compliance tool is released.	2018-05-28	All	<a href="#">Use the image compliance tool</a>

Feature	Description	Release date	Region	References
System event	ECS system events are migrated to CloudMonitor and can be queried.	2018-05-25	All	<a href="#">Overview</a>
Launch template	The launch template feature is released.	2018-05-11	All	<a href="#">Create a launch template</a>

## April 2018

Feature	Description	Release date	Region	References
Billing method	Pay-as-you-go instances can be changed into subscription instances.	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 expired subscription instances can be downgraded when the instances are being renewed.	2018-04-13	All	<a href="#">Downgrade the configurations of an instance during renewal</a>

## March 2018

Feature	Description	Release date	Region	References
GPU-accelerated instance	NVIDIA GPU Cloud (NGC) GPU-accelerated containers are supported.	2018-03-28	All	<a href="#">Deploy an NGC environment on gn5 instances</a>
System event	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="#">Overview</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	Region	References
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>

Feature	Description	Release date	Region	References
Subscription instance	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	Region	References
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>
ENI	The ENI feature is released.	2017-12-08	All	<a href="#">ENI overview</a>
FPGA-accelerated instance family	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	Region	References
Cloud Migration tool	The Cloud Migration tool is released.	2017-11-27	All	<a href="#">What is SMC?</a>
Security group rule	Security group rules can be imported and exported.	2017-11-23	All	<a href="#">Manage security group rules</a>
Subscription instance	The auto-renewal feature can be disabled for subscription instances.	2017-11-23	All	<a href="#">ModifyInstanceAutoRenewAttribute</a>

Feature	Description	Release date	Region	References
Billing method	API operations used to create and renew weekly subscription instances are released.	2017-11-03	All	<a href="#">CreateInstance</a>
Instance RAM role	RAM roles can be assigned to ECS instances.	2017-11-01	All	<a href="#">Overview</a>

## October 2017

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

## September 2017

Feature	Description	Release date	Region	References
Billing method	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 instance family	The gn5i GPU-accelerated compute optimized instance family is released. It is applicable to deep learning and online inference scenarios.	2017-09-23	All	<a href="#">Instance families</a>
Cloud disk encryption	Cloud disks can be encrypted.	2017-09-05	All	<a href="#">Encryption overview</a>

## August 2017

Feature	Description	Release date	Region	References
Security group rule	Security group rules can be configured based on 5-tuples.	2017-08-31	All	<a href="#">Security group quintuple rules</a>

Feature	Description	Release date	Region	References
ClassicLink	ClassicLink allows instances in the classic network to be connected to instances in VPCs.	2017-08-25	All	<a href="#">Network types</a>
Instance family	The new-generation instances with high clock speeds and local SSD-based instances that are powered by Skylake processors 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 image	Custom images can be imported.	2017-08-10	All	<a href="#">Import custom images</a>

## July 2017

Feature	Description	Release date	Region	References
Image	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 group	Instances in a security group can be isolated from each other based on a security group rule.	2017-07-07	All	<a href="#">Network isolation within a basic security group</a>

## June 2017

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

## May 2017

Feature	Description	Release date	Region	References
Instance RAM role	The API operation used to manage instance RAM roles is released.	2017-05-26	All	<a href="#">Use an instance RAM role by calling API operations</a>
Instance family	The network optimized instance family is released.	2017-05-23	All	<a href="#">Instance families</a>
Instance family	The d1 storage intensive instance family is released.	2017-05-12	All	<a href="#">Instance families</a>
Security group	The default security group rule is modified to expose only Internet Control Message Protocol (ICMP) ports, Transmission Control Protocol (TCP) port 22, and TCP port 3389.	2017-05-11	All	<a href="#">Overview</a>
Security group	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	Region	References
Secure Shell (SSH) key pair	The SSH key pair feature is released.	2017-04-25	All	<a href="#">Overview</a>

## February 2017

Feature	Description	Release date	Region	References
Custom image	cloud-init is available for some custom images.	2017-02-24	All	<a href="#">Install cloud-init</a>
Instance family	The i1 I/O optimized instance family with local SSDs is released.	2017-02-17	All	<a href="#">Instance families</a>
Snapshot	System disk snapshots can be used to create data disks.	2017-02-15	All	<a href="#">Create a disk from a snapshot</a>
Instance family	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	Region	References
Instance family	The ga1 visualization and compute optimized GPU-accelerated instance family is released.	2017-01-24	All	<a href="#">Instance families</a>
Instance family	The se1 dedicated instance family is released.	2017-01-21	All	<a href="#">Instance families</a>

## 2016

Feature	Description	Release date	Region	References
Snapshot	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	Region	References
Custom image	The feature of importing custom images is released.	2015-12-15	All	<a href="#">Instructions for importing images</a>
Security group	Security groups are supported in the ECS console.	2015-11-02	All	<a href="#">Create a security group</a>
Alibaba Cloud Marketplace image	Alibaba Cloud Marketplace images are available for commercial use.	2015-09-02	All	<a href="#">Alibaba Cloud Marketplace images</a>
Tag	The tag feature is released.	2015-08-20	All	<a href="#">Overview</a>
System disk	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 image	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 image	The image replication feature is released.	2015-01-26	All	<a href="#">Copy custom images</a>

## 2014

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