Alibaba Cloud
Elastic Compute Service

Release Notes

Issue: 20200120

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Document conventions

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

Style	Description	Example
{} or {a|b}	**This format is used for a required value, where only one item can be selected.**	`switch {active|stand}`

Contents

1 Feature release notes

This topic describes the release notes for ECS features.

For information about release notes for images, see *#unique_4***. For information about release notes for the Server Migration Center, see the "Update history" section of** *Server Migration Center***.**

September 2019

Feature	Description	Release date	Supported region	Documentation
Resize a cloud disk	· **SSD cloud disks and ultra cloud disks can be scaled up to 32 TiB** · **ESSDs support online resizing.**	**September 26, 2019**	**All**	· *#unique_6* · *#unique_7*
Security groups	**The maximum number of rules that can be added for a security group is increased to 200.**	**September 3, 2019**	**All**	*#unique_8*
Snapshots	**The quota for manual and automatic snapshots is increased to 256.**	**September 2, 2019**	**All**	*#unique_9*

August 2019

Feature	Description	Release date	Supported region	Documentation
Images	**The image export function is available for all Alibaba Cloud regions.**	**August 21, 2019**	**All**	*#unique_10*

Feature	Description	Release date	Supported region	Documentation
Snapshots	The snapshot service becomes commercially available. Both existing and new snapshots are billed according to the pay-as-you-go billing method.	August 21, 2019	All	*#unique_11*

June 2019

Feature	Description	Release date	Supported region	Documentation
Auto provisioning	Auto provisioning uses groups to schedule and maintain computing resources. It offers one-click deployment of instance clusters with specified billing methods, zones, and instance families.	June 28, 2019	All	*#unique_12*
ESSDs	ESSDs become commercially available after public review. Three performance levels of ESSDs are released.	June 28, 2019	For information about supported regions, see *#unique_13*.	*#unique_14*
vgn5i, a lightweight compute optimized instance family with GPUs, is released.	GRID drivers for vgn5i instances are offered.	June 19, 2019	All	• *#unique_15* • *#unique_16*

May 2019

Feature	Description	Release date	Supported region	Documentation
Block storage	**This feature calls API operations to create subscription disks.**	**May 15, 2019**	**All**	*#unique_17*

April 2019

Feature	Description	Release date	Supported region	Documentation
Elastic Network Interface (ENI)	**A single ENI supports multiple private IP addresses.**	**April 28, 2019**	**All**	*#unique_18*
Block storage	**Data disks can be resized online without restarting your ECS instance.**	**April 24, 2019**	**All**	*#unique_7*
Block storage	**System disks can be resized.**	**April 24, 2019**	**All**	*#unique_19*
Snapshots	**Snapshots of expired disks can be created.**	**April 20, 2019**	**All**	· *Create a snapshot* · *CreateSnapshot*

March 2019

Feature	Description	Release date	Supported region	Documentation
Public images	**Public image Aliyun Linux 2 is released.**	**March 27, 2019**	**All**	*#unique_22*
Instance families	**gn6i, a compute optimized instance family with GPUs, is released.**	**March 21, 2019**	**All**	*#unique_23*
Instance families	**sccgn6, a compute optimized Super Computing Cluster (SCC) instance family with GPUs, is released.**	**March 20, 2019**	**All**	*#unique_23*

Feature	Description	Release date	Supported region	Documentation
Instance families	vgn5i, a light-weight compute optimized instance family with GPUs, is released.	March 19, 2019	All	*#unique_23*
Reserved instances	The invitational review of reserved instances is started.	March 18, 2019	All	*RI overview*

January 2019

Feature	Description	Release date	Supported region	Documentation
Event notifications	Status change events and alert events for recycling preemptible instances are supported.	January 29, 2019	All	*System events*

December 2018

Feature	Description	Release date	Supported region	Documentation
Cloud Assistant	Cloud Assistant supports the UK (London) region.	December 31, 2018	All	*#unique_26*
Preemptible instances	Preemptible instance bills are accurate to the second.	December 17, 2018	All	*Preemptible instances*
Instances	Instance release protection is supported.	December 14, 2018	All	*Enable instance release protection*
ENIs	You can call the DescribeNetworkInterfaces API operation to query the public IP address that is attached to an ENI.	December 4, 2018	All	*#unique_29*

November 2018

Feature	Description	Release date	Supported region	Documentation
Custom images	**Custom images can be created through Packer.**	**November 30, 2018**	**All**	*#unique_30*
Instance families	**re4e, a memory optimized instance family with enhanced performance, is released.**	**November 30, 2018**	**All**	*#unique_23*
Block storage	**Subscription disks can be created separately and attached to a subscription instance.**	**November 29, 2018**	**All**	*#unique_31*
Deployment set	**Alibaba Cloud deployment sets are released.**	**November 16, 2018**	**All**	*Deployment set*

October 2018

Feature	Description	Release date	Supported region	Documentation
Instance families	**f3, a compute optimized instance family with FPGAs, is released.**	**October 31 , 2018**	**All**	*#unique_23*
API best practices	**API best practices are released.**	**October 19 , 2018**	**All**	*#unique_33*

September 2018

Feature	Description	Release date	Supported region	Documentation
Burstable performance instances (t5)	**Burstable performance instances support the unlimited mode.**	**September 30, 2018**	**All**	*Unlimited mode*
Instance metadata	**Instance metadata supports O&M system events.**	**September 14, 2018**	**All**	*Metadata*

Feature	Description	Release date	Supported region	Documentation
Instance health status	Health status of ECS instances is displayed on the instance details page.	September 14, 2018	All	*#unique_36*
Instance families	The new generation GPU cloud host GN6 (V100 model) is released.	September 12, 2018	All	*#unique_23*
Instance purchase	Batch renewal of instances and batch purchase of historical instances are supported .	September 7, 2018	All	*#unique_37*
System events	API operations that are used to create or cancel simulated system events are released.	September 3, 2018	All	· *CreateSimulatedSystemEvents* · *CancelSimulatedSystemEvents*
Billing methods	You can switch the billing method of an instance from subscription to pay-as-you-go.	September 1, 2018	All	*Switch the billing method from subscription to pay-as-you-go.*

August 2018

Feature	Description	Release date	Supported region	Documentation
Local disks	The O&M of instances to which local disks are attached is optimized.	August 31, 2018	All	*#unique_41*
Cloud Assistant overview	Cloud Assistant is supported in the ECS console.	August 17, 2018	All	*Cloud Assistant overview*
Instance families	Super Computing Cluster (SCC) is released .	August 16, 2018	All	*#unique_42*

July 2018

Feature	Description	Release date	Supported region	Documentation
Custom images	Images in the qcow2 format can be imported.	July 30, 2018	All	• *#unique_43* • *#unique_44*
Security groups	Security group rules can be modified.	July 25, 2018	All	*Modify security group rules*
The tag of an ENI.	Instances can be tagged when being created.	July 20, 2018	All	*Add a tag to resources*
Instance families	ebmc4, compute optimized ECS Bare Metal Instance family, is released.	July 18, 2018	All	*#unique_23*
Snapshots	The estimated remaining time for creating snapshots can be displayed.	July 17, 2018	All	*#unique_20*
Account and user privileges	Quota management is supported.	July 15, 2018	All	*#unique_47*
ESSDs	Enhanced SSDs (under public preview) are available in Beijing Zone G.	July 14, 2018	Beijing Zone G	*#unique_48*
Instance troubleshooting	System logs and screenshots can be viewed.	July 13, 2018	All	*#unique_49*
Security groups	You can submit a ticket to modify the maximum number of instances that can be added in a security group and the maximum number of security group rules.	July 10, 2018	All	*Limits*
Instance families	ic5, a compute optimized instance family, is released.	July 9, 2018	All	*#unique_23*

June 2018

Feature	Description	Release date	Supported region	Documentation
Public images	**You can select an OS such as Red Hat for public images to create ECS instances.**	**June 29, 2018**	**All**	*#unique_33*
Instance upgrade	**Pay-as-you-go instances can be upgraded or downgraded across instance families.**	**June 15, 2018**	**All**	*Instance families that support instance upgrades*
Billing methods	**Subscription instances can be renewed on a weekly basis.**	**June 12, 2018**	**All**	*#unique_37*
Security groups	**Security groups in a classic network can be cloned to a VPC in one click.**	**June 6, 2018**	**All**	*Clone a security group*
Active O&M	**Phase II of active O&M is released.**	**June 1, 2018**	**All**	*#unique_25*

May 2018

Feature	Description	Release date	Supported region	Documentation
Custom images	**The image compliance tool is released.**	**May 28, 2018**	**All**	*#unique_52*
System events	**ECS system events are migrated to CloudMonit or and can be queried.**	**May 25, 2018**	**All**	*#unique_25*
Launch templates	**The ECS instance launch template is released.**	**May 11, 2018**	**All**	*Create a launch template*

April 2018

Feature	Description	Release date	Supported region	Documentation
Billing methods	**You can switch the billing method of an instance from pay-as-you-go to subscription.**	**April 23, 2018**	**All**	*#unique_54*
Instance upgrade	**Subscription ECS instances can be renewed and upgraded or downgraded after expiration.**	**April 13, 2018**	**All**	*#unique_55*

March 2018

Feature	Description	Release date	Supported region	Documentation
GPU instances	**The NGC GPU-accelerated container is supported.**	**March 28, 2018**	**All**	*Deploy an NGC on gn5 instances*
System events	**The system event feature is released.**	**March 26, 2018**	**All**	*#unique_25*
ECS Bare Metal Instance	**ECS Bare Metal Instance is released.**	**March 14, 2018**	**All**	*#unique_57*
Instance identity	**The ECS instance identity feature is released.**	**March 1, 2018**	**All**	*#unique_58*

February 2018

Feature	Description	Release date	Supported region	Documentation
ECS API operations	**The API operation that is used to check whether ECS instances can be upgraded or downgraded is released.**	**February 10, 2018**	**All**	*#unique_59*

Feature	Description	Release date	Supported region	Documentation
Subscription instances	The number of expiration days of a subscription instance prior to instance release is extended from 7 days to 15 days.	February 7, 2018	All	*#unique_60*
ECS API operations	The API operation that is used to create and query resources is released.	February 2, 2018	All	*#unique_61*

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 supported for pay-as-you-go instances.	December 14, 2017	All	*#unique_62*
ENI overview	The ENI feature is released.	December 8, 2017	All	*ENI overview*
Instance family with FPGAs	f1, a compute optimized instance family with FPGAs, is released.	December 2, 2017	All	*#unique_23*
ECS API operations	The API operation that is used to create multiple instances at a time is released.	December 1, 2017	All	*#unique_64*
Instance troubleshooting	The ECS console supports real-time diagnostics.	December 1, 2017	All	*#unique_65*

November 2017

Feature	Description	Release date	Supported region	Documentation
Server Migration Center	Server Migration Center is released.	November 27, 2017	All	*#unique_5*
Security group rules	Security group rules can be imported and exported.	November 23, 2017	All	*Manage security group rules*
Subscription instances	Subscription instances can have the auto-renewal function disabled.	November 23, 2017	All	*#unique_66*
Billing methods	Weekly subscription instances can be created and renewed by calling API operations.	November 3, 2017	All	*#unique_67*
Instance RAM roles	RAM roles can be assigned to ECS instances.	November 1, 2017	All	*#unique_68*

October 2017

Feature	Description	Release date	Supported region	Documentation
Elastic IP Address (EIP)	The public IP address of an instance in a VPC can be converted to an EIP.	October 31, 2017	All	*Convert an ECS public IP address to an EIP*
Preemptible instances	Preemptible instances are released.	October 18, 2017	All	*#unique_27*
Burstable performance instances (t5)	t5 burstable performance instances are released.	October 9, 2017	All	*#unique_34*

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 . Bills are generated by hour.**	**September 29, 2017**	**All**	*Pay-as-you-go*
Instance family gn5i	**gn5i, a compute optimized instance family with GPUs, is released. It is applicable to deep learning and online reasoning scenarios.**	**September 23, 2017**	**All**	*#unique_23*
ECS disk encryption	**ECS disks can be encrypted.**	**September 5, 2017**	**All**	*ECS disk encryption*

August 2017

Feature	Description	Release date	Supported region	Documentation
Security group rules	**Security group rules can be configured based on the 5-tuple.**	**August 31, 2017**	**All**	*#unique_72*
ClassicLink	**Instances in a classic network can be connected with instances in a VPC through ClassicLink.**	**August 25, 2017**	**All**	*Network types*
Instance families	**The new-generation high speed ECS instances and local SSD instances that are equipped with the Skylake processor and support 25 GE networks are released.**	**August 22, 2017**	**All**	*#unique_23*

Feature	Description	Release date	Supported region	Documentation
ECS API operations	**The bandwidth of instances can be changed by calling API operations.**	**August 17, 2017**	**All**	*#unique_74*
Custom image	**Custom images can be imported.**	**August 10, 2017**	**All**	*#unique_43*

July 2017

Feature	Description	Release date	Supported region	Documentation
Security groups	**You can isolate instances in a security group by configuring a security group rule.**	**July 7, 2017**	**All**	*#unique_75*

June 2017

May 2017

Feature	Description	Release date	Supported region	Documentation
Instance RAM roles	**API operations that are used to manage RAM roles of instances are released.**	**May 26, 2017**	**All**	*#unique_76*
Instance families	**Network-optimized instances are released.**	**May 23, 2017**	**All**	*#unique_23*
Instance families	**d1, a storage optimized instance family, is released.**	**May 12, 2017**	**All**	*#unique_23*
Security groups	**The default security group policy is modified to expose only ICMP ports, TCP port 22, and TCP port 3389.**	**May 11, 2017**	**All**	*Default rules of the default security group*

Feature	Description	Release date	Supported region	Documentation
Security groups	Security groups can be backed up, overwritten , and restored.	May 10, 2017	All	*Restore security group rules*

April 2017

Feature	Description	Release date	Supported region	Documentation
SSH key pairs	SSH key pairs are released.	April 25, 2017	All	*#unique_78*

February 2017

Feature	Description	Release date	Supported region	Documentation
Custom images	The cloud-init tool supports some of the custom images.	February 24, 2017	All	*#unique_79*
Instance families	i1, an I/O optimized instance family with local SSDs, is released.	February 17, 2017	All	*#unique_23*
Snapshots	The system disk snapshot can be used to create data disks.	February 15, 2017	All	*Create a disk by using a snapshot*
Instance families	gn4, a compute optimized instance family with GPUs, is released.	February 14, 2017	All	*#unique_23*

January 2017

Feature	Description	Release date	Supported region	Documentation
Instance families	ga1, a compute optimized instance family with GPUs for visualization computing , is released.	January 24 , 2017	All	*#unique_23*

Feature	Description	Release date	Supported region	Documentation
Instance families	**se1, a memory optimized instance family, is released.**	**January 21 , 2017**	**All**	*#unique_23*

2016

Feature	Description	Release date	Supported region	Documentation
Snapshots	**Snapshot 2.0 is released.**	**March 15, 2016**	**All**	*#unique_9*
Disk resizing	**The system disk resizing feature is released.**	**January 15 , 2016**	**All**	*#unique_19*

2015

Feature	Description	Release date	Supported region	Documentation
Custom images	**The image import feature is released.**	**December 15, 2015**	**All**	*#unique_81*
Security groups	**Security groups are supported in the ECS console.**	**November 2, 2015**	**All**	*#unique_82*
Marketplac e image	**Marketplace images become commercially available.**	**September 2, 2015**	**All**	*#unique_83*
The tag of an ENI.	**The tag feature is released.**	**August 20, 2015**	**All**	*#unique_84*
System disks	**The operating system of pay-as-you-go instances can be changed.**	**August 13, 2015**	**All**	*#unique_85*
Custom image	**Images can be shared to other users.**	**May 15, 2015**	**All**	*Share custom images*
Disk resizing	**Disks can be resized offline.**	**April 20, 2015**	**All**	*#unique_6*
Custom image	**The image copying feature is released.**	**January 26 , 2015**	**All**	*#unique_87*

2014

Feature	Description	Release date	Supported region	Documentation
Block storage	**Pay-as-you-go disks are released.**	**August 22, 2014**	**All**	*What is Block Storage?*

2 [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, making 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 install the patch for vulnerability CVE-2020-0601 by using one of the following methods:

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

Announcing party

Alibaba Cloud Computing Ltd.

If you have any requests or feedback, *submit a ticket* **to contact Alibaba Cloud.**