

# FortiManager - Deploying on AliCloud

Version 6.0

**FORTINET DOCUMENT LIBRARY**

<https://docs.fortinet.com>

**FORTINET VIDEO GUIDE**

<https://video.fortinet.com>

**FORTINET BLOG**

<https://blog.fortinet.com>

**CUSTOMER SERVICE & SUPPORT**

<https://support.fortinet.com>

**FORTINET TRAINING & CERTIFICATION PROGRAM**

<https://www.fortinet.com/support-and-training/training.html>

**NSE INSTITUTE**

<https://training.fortinet.com>

**FORTIGUARD CENTER**

<https://fortiguard.com/>

**END USER LICENSE AGREEMENT**

<https://www.fortinet.com/doc/legal/EULA.pdf>

**FEEDBACK**

Email: [techdoc@fortinet.com](mailto:techdoc@fortinet.com)



July 22, 2019

FortiManager 6.0 Deploying on AliCloud

02-600-000000-20190722

# TABLE OF CONTENTS

<b>Obtaining the Deployment Image .....</b>	<b>4</b>
<b>Uploading the FortiManager Installer to AliCloud .....</b>	<b>5</b>
<b>Configuring Virtual Private Cloud .....</b>	<b>8</b>
<b>Creating the FortiManager deployment image .....</b>	<b>10</b>
<b>Creating security groups .....</b>	<b>12</b>
<b>Creating an instance .....</b>	<b>15</b>
<b>Connecting to the FortiManager VM .....</b>	<b>20</b>
<b>Change Log .....</b>	<b>21</b>

# Obtaining the Deployment Image

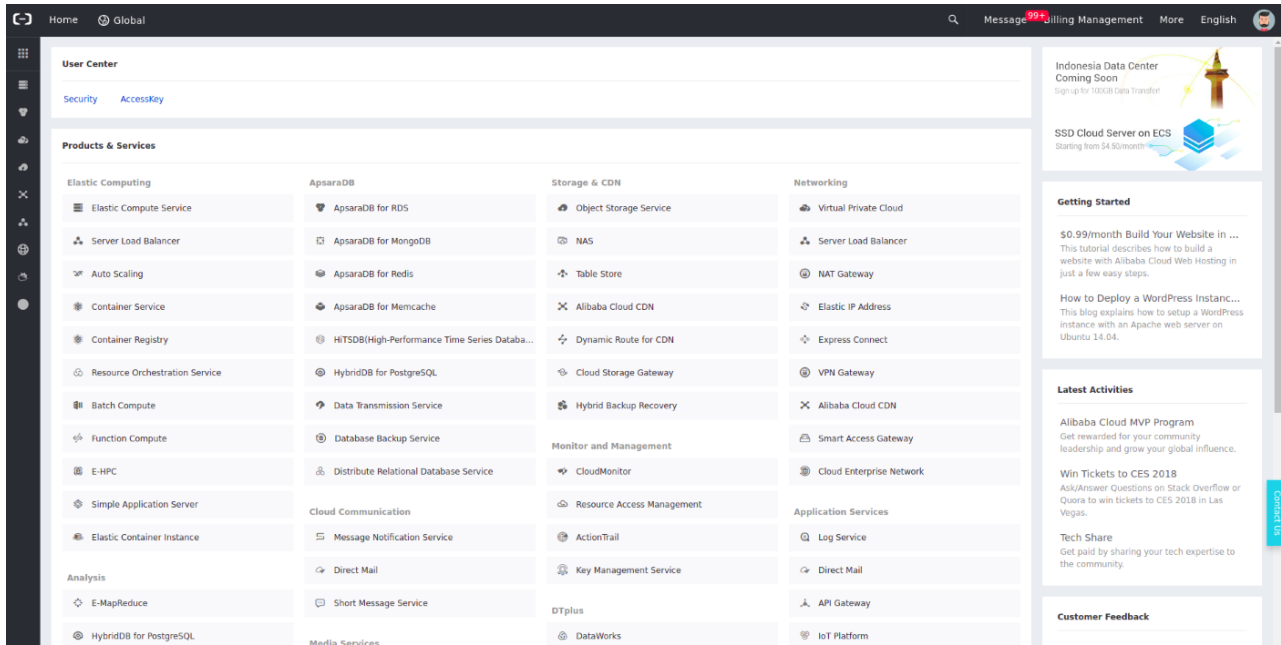
## To obtain the deployment image:

1. Go to the Fortinet support site (<https://support.fortinet.com/>) and log in.
2. Navigate to *Download > VM Images*.
3. Under *Select Product*, select FortiManager.
4. Under *Select Platform*, select *AliCloud*.
5. Download the deployment package file.

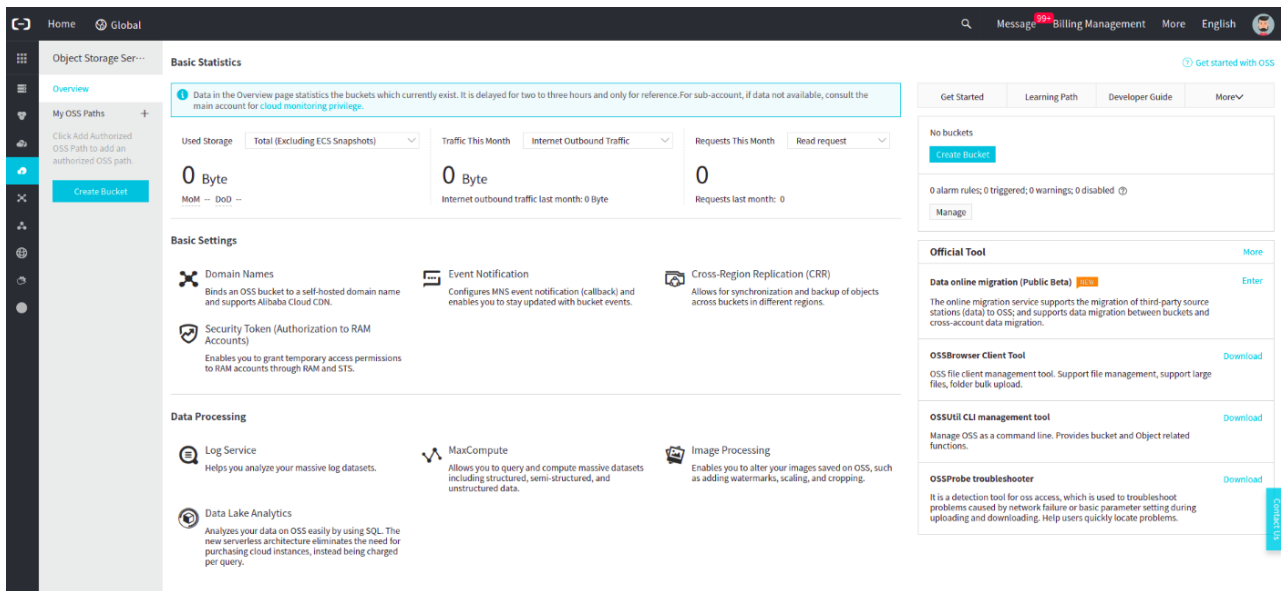
# Uploading the FortiManager Installer to AliCloud

To upload the FortiManager installer to AliCloud:

1. Log into Alibaba Cloud.
2. Go to *Console > Object Storage Service*.



3. Click *Create Bucket*.



**4. Configure the settings for the bucket and click *OK*.**

Create Bucket
Create a bucket ✕

**Note:** Storage Class and Region cannot be changed after the bucket is created.

Bucket Name  18/63 ✔

Region US (Silicon Valley) ▾

Alibaba Cloud services in the same region can communicate with each other over an internal network. Select a region with caution because the region cannot be changed after the purchase.

Endpoint oss-us-west-1.aliyuncs.com

Storage Class Standard IA Archive

Standard: high reliability, high availability, high performance, frequent access  
[How to Choose a Suitable Storage Class](#)

Access Control List (ACL) Private Public Read Public Read/Write

Private: Authentication is required for users to read or write files.

OK
Cancel

**5. Click the newly created bucket.**

**6. Click *Files*.**

**7. Click *Upload*.**

**8. Drag and drop the VM file to the bucket.**

Upload
✕

Upload To Current Specified

oss://fortialiyun/

File ACL Inherited from Bucket Private Public Read Public Read/Write

Inherited from Bucket: The read/write permissions of each file are the same as those of the bucket.

Upload

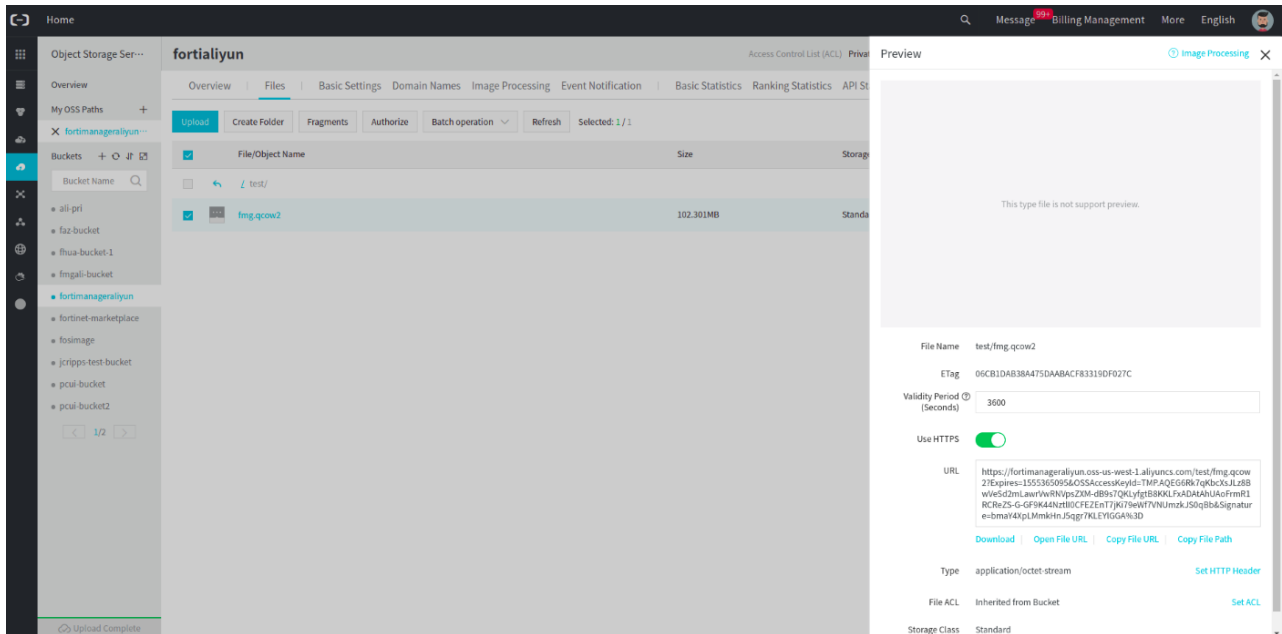
Drag and drop directories or files here, or [click here to upload](#)  
Maximum 100 files

File naming rules:

1. Use UTF-8 encoding;
2. Case sensitive;
3. A name must be 1 to 1023 bytes in length;
4. A name cannot start with a slash `/` or consecutive backslashes `\`.

**Note:** file with the same name in the Bucket will be replaced by uploaded file.

9. Click the uploaded file and copy the URL.



# Configuring Virtual Private Cloud

To configure Virtual Private Cloud:

1. Go to Virtual Private Cloud. Click *Create VPC*.

The screenshot shows the AliCloud console interface for managing Virtual Private Clouds (VPCs). The page title is 'VPCs' and it includes a search bar for Instance Name and ID. A table lists several VPC instances, all with a status of 'Available'. The table columns are: Instance ID/Name, IPv4 CIDR Block, Status, Default VPC, Route Table, VSwitch, and Actions. The actions for each VPC are 'Manage' and 'Delete'.

Instance ID/Name	IPv4 CIDR Block	Status	Default VPC	Route Table	VSwitch	Actions
vpc-fj9t9vbu70x02wjlw6mh zhmVPC1	192.168.0.0/16	Available	No	3	8	Manage Delete
vpc-fj17qst081pavictbnol FaaS-VPC	192.168.0.0/16	Available	No	1	4	Manage Delete
vpc-fj9q28c9px79kz27rv pcu-vpc	10.0.0.0/8	Available	No	2	10	Manage Delete
vpc-fj9ps90rcwh2ekow55 tempvpc1	192.168.0.0/16	Available	No	1	3	Manage Delete
vpc-fj9hg271lectx3jke20y9 jkatvpc001	10.0.0.0/8	Available	No	1	2	Manage Delete
vpc-fj9ye502mmr2pg53k	172.20.0.0/16	Available	Yes	1	1	Manage Delete
vpc-fj9qhu59om9kr9i83vh fazvpc	10.0.0.0/8	Available	No	1	1	Manage Delete
vpc-fj9kyzu162xo2z9jpot tempvpc	192.168.0.0/16	Available	No	1	0	Manage Delete
vpc-fj9mtm172qz8qybt1a fmgvpc	10.0.0.0/8	Available	No	1	1	Manage Delete
vpc-fj9k7ico621z27p1v4y fortigatevpc	192.168.0.0/16	Available	No	1	3	Manage Delete



2. Enter a name for the VPC. Configure the settings as required and click *OK*.

Create VPC ✕

**VPC**

Region  
US (Silicon Valley)

• Name ?  
vpc 6/128 ✓

• IPv4 CIDR Block ?  
192.168.0.0/16 ▼

⚠ The CIDR cannot be changed once the VPC is created.

Description ?  
 0/256

**VSwitch**

• Name ?  
switch 9/128 ✓

• Zone ?  
Silicon Valley Zone A ▼

Zone Resource ?  
ECS ✓ RDS ✓ SLB ✓

• IPv4 CIDR Block  
192 . 168 . 0 . 0 / 24 ▼

⚠ The CIDR cannot be changed once the VPC is created.

Number of Available Private IPs  
252

Description ?

OK Cancel

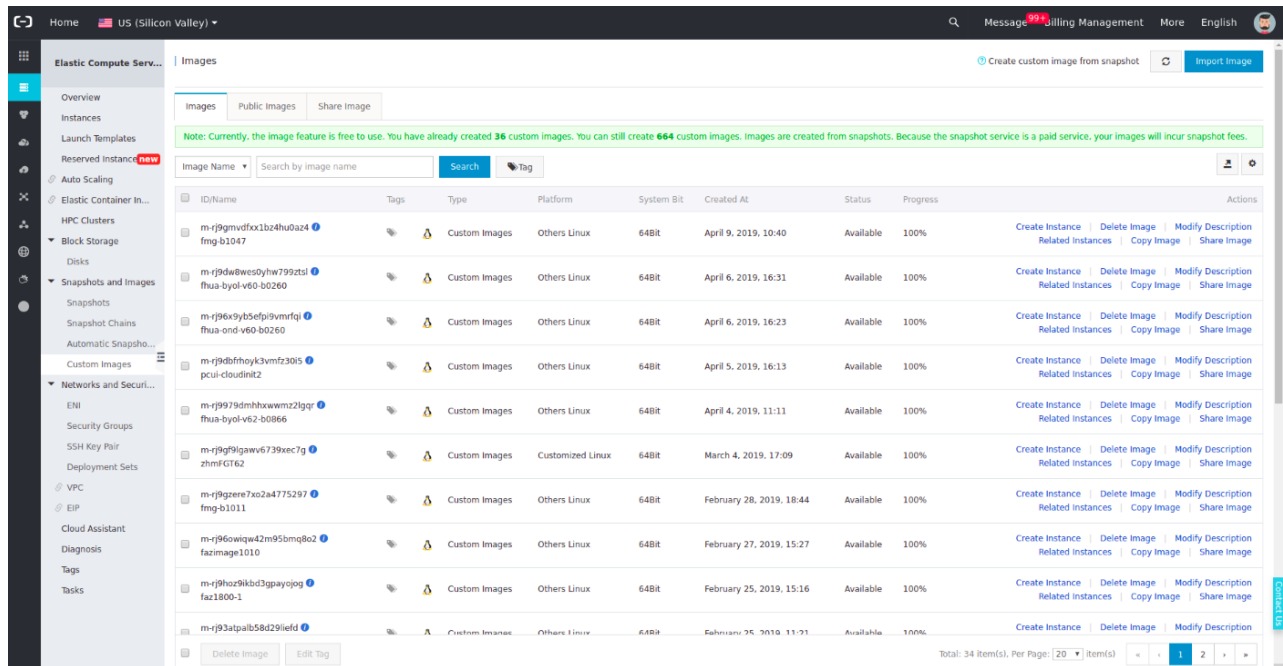
Contact Us

# Creating the FortiManager deployment image

The following procedure is applicable only if you are uploading a custom image. To deploy FortiManager from the Marketplace directly, go to [Creating an instance on page 15](#).

**To create the FortiManager deployment image:**

1. Go to *Snapshot and Images > Custom Images*.



2. Click *Import Image*. Configure the settings in the Import Image screen. Configure the following settings:

- OSS Object Address - paste the URL from step 9 in [Uploading the FortiManager Installer to AliCloud on page 5](#) into OSS Object Address.
- Image Name - specify a name for the image.
- Operating System - select *Linux*.
- System Disk Size - select the minimum disk size as *40 GB*.
- System Architecture - select *x86\_64*.
- Platform - select *Other Linux*.
- Image Format - select *QCOW2*.

Import Image [?](#) Import custom image ✕

When you create an image, a snapshot will be created at the same time. Because the snapshot service is a paid service, your images will incur snapshot fees.

How to import an image:

1. Perform the following: [Activate OSS](#)
2. Upload the image file to the bucket in the same region that the image will be imported to.
3. Make sure that you have authorized ECS to access your OSS. [Confirm Address](#)
4. Check if the image meets [Notes](#)

\* Region of Image: US (Silicon Valley)

\* OSS Object Address:  [How to get the address of OSS files](#)

\* Image Name:

\* Operating System:

\* System Disk Size (GB):   
40 to 500 GB for Windows and 40 to 500 GB for Linux.

\* System Architecture:

\* Platform:

Image Format:

Image Description:

Add Data Disk Image

3. Click **OK**.

# Creating security groups

## To create security groups:

1. Go to *Elastic Compute Service > Network and Security*.
2. Click *Security Groups*.
3. Click *Create Security Group*.

Security Group ID/Name	Tags	VPC	Related Instances	Number of available IP	Network Type(All)	Created At	Description	Actions
sg-rj95l3vgwmdac63y18mk8s_sg		vpc-rj9q9vbu70b02wj8w6mhzhmVPC1	6	1994	VPC	April 1, 2019, 12:14	This is used by kubern...	Modify   Clone Security Group   Restore Rules   Manage Instances   Add Rules   Manage ENIs
sg-rj9gyf68w6sz37c2gy8l null		vpc-rj9hg27f1echx3pke20y9jkatovpc001	0	2000	VPC	March 5, 2019, 12:09	null	Modify   Clone Security Group   Restore Rules   Manage Instances   Add Rules   Manage ENIs
sg-rj96iglih3lag070c1pe sg_zhmvpc1		vpc-rj9q9vbu70b02wj8w6mhzhmVPC1	4	1989	VPC	March 4, 2019, 13:22	System created securit...	Modify   Clone Security Group   Restore Rules   Manage Instances   Add Rules   Manage ENIs
sg-rj9db3liunsmmqwpaqy sg-rj9db3liunsmmqwpaq...		vpc-rj917qbs081puvicbvmolFoBvPC	0	2000	VPC	February 6, 2019, 14:55	System created securit...	Modify   Clone Security Group   Restore Rules   Manage Instances   Add Rules   Manage ENIs
sg-rj98p6kd08ecw4w9akt pri-sec-grp		vpc-rj9kt7cc621127p1f4yfortigatevpc	0	2000	VPC	February 6, 2019, 10:25	-	Modify   Clone Security Group   Restore Rules   Manage Instances   Add Rules   Manage ENIs
sg-rj91vjc9gmm80u8u00b pcui-sg		vpc-rj9q92l8cqx7s9x127rvpcui-vpc	1	1997	VPC	January 7, 2019, 14:51	-	Modify   Clone Security Group   Restore Rules   Manage Instances   Add Rules   Manage ENIs
sg-rj99f72su035j9cws8 faztest		vpc-rj9qhx5l9om9vkr9r83vhfazvpc	2	1998	VPC	January 3, 2019, 10:51	-	Modify   Clone Security Group   Restore Rules   Manage Instances   Add Rules   Manage ENIs
sg-rj9bdnlickm9xh4akfg sg-rj9bdnlickm9xh4akf...		vpc-rj9gsp90rcrw2exkww55tempvpc1	0	2000	VPC	December 16, 2018, 23:37	System created securit...	Modify   Clone Security Group   Restore Rules   Manage Instances   Add Rules   Manage ENIs
sg-rj9g57ev1r551146226n sg-rj9g57ev1r551146226...		vpc-rj9hg27f1echx3pke20y9jkatovpc001	0	2000	VPC	December 7, 2018, 14:31	System created securit...	Modify   Clone Security Group   Restore Rules   Manage Instances   Add Rules   Manage ENIs
sg-rj9tp5ax5kwy3gqdlzqb sg-rj9tp5ax5kwy3gqdlzq...		vpc-rj9qhx5l9om9vkr9r83vhfazvpc	1	1998	VPC	November 29, 2018, 11:27	System created securit...	Modify   Clone Security Group   Restore Rules   Manage Instances   Add Rules   Manage ENIs

4. Configure the security group and click OK.

Create Security Group ✕

Template: Web Server Linux

\* Security Group Name: security-group-20190416  
The name can be 2 to 128 characters in length and can contain periods (.), underscores (\_), and hyphens (-). It cannot start with a special character or number.

Description: Security Group  
It can be 2 to 256 characters in length and cannot start with http:// or https://.

Network Type: VPC

\*VPC: vpc-rj917qbs081puvicbvnol [Create VPC](#)

---

Tag: Select a key or enter a new ... Select a value or enter a ne...

Ingress

Egress

Authorization Objects	Protocol Type	Port Range	Action
0.0.0.0/0	TCP	80/80	Allow
0.0.0.0/0	TCP	443/443	Allow
0.0.0.0/0	TCP	22/22	Allow
0.0.0.0/0	ICMP	-1/-1	Allow

OK
Cancel

5. Click *Create Rules Now*.

Notes ✕

After creating a security group, we recommend that you immediately create security group rules. Otherwise, you may not be able to access the internal network or Internet.

Create Rules Now
Close

6. Click *Add Security Group Rule*.

Home
Message 99% Billing Management More English

security-group-2019041...
FoVPC / vpc-rj917qbs081puvicbvnol
Tutorial Back Add Security Group Rule Quick Rule Creation

Security Group Rules
Import Rules Export Rules

Instances in Secur...

ENIs in Security Gro...

Ingress Outbound

Action	Protocol Type	Port Range	Authorization Type(All)	Authorization Objects	Description	Priority	Created At	Actions
Allow	Customized TCP	22/22	IPv4 CIDR Block	0.0.0.0/0	-	1	April 16, 2019, 12:04	Modify Clone Delete
Allow	Customized TCP	443/443	IPv4 CIDR Block	0.0.0.0/0	-	1	April 16, 2019, 12:04	Modify Clone Delete
Allow	Customized TCP	80/80	IPv4 CIDR Block	0.0.0.0/0	-	1	April 16, 2019, 12:04	Modify Clone Delete
Allow	All ICMP (IPv4)	-1/-1	IPv4 CIDR Block	0.0.0.0/0	-	1	April 16, 2019, 12:04	Modify Clone Delete
Delete								

7. Configure the settings as per your network infrastructure and click **OK**.

Add Security Group Rule ⓘ Add security group rules ✕

---

NIC: Internal Network ▾

Rule Direction: Ingress ▾

Action: Allow ▾

Protocol Type: Customized TCP ▾

\* Port Range: 80/80 ⓘ

Priority: 1 ⓘ

Authorization Type: IPv4 CIDR Bloc ▾

\* Authorization Objects: 0.0.0.0/0 ⓘ Tutorial

Description:

It can be 2 to 256 characters in length and cannot start with http:// or https://.

---

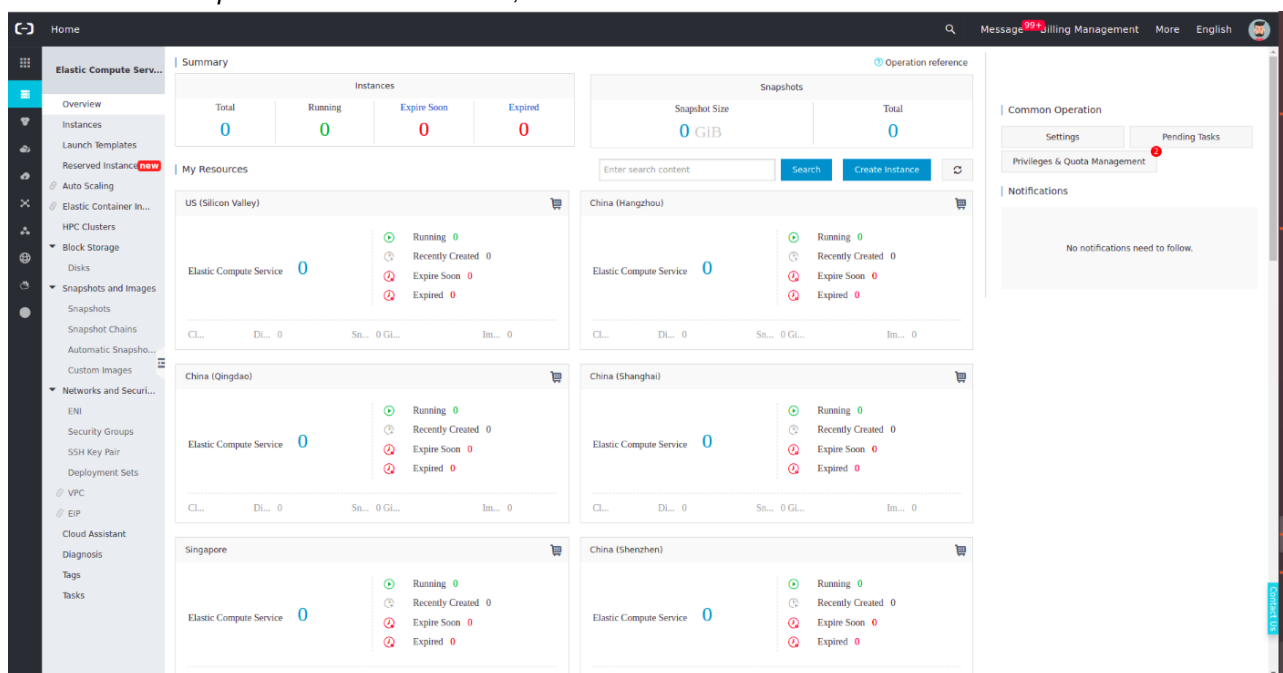
# Creating an instance

FortiManager can be deployed in the following ways:

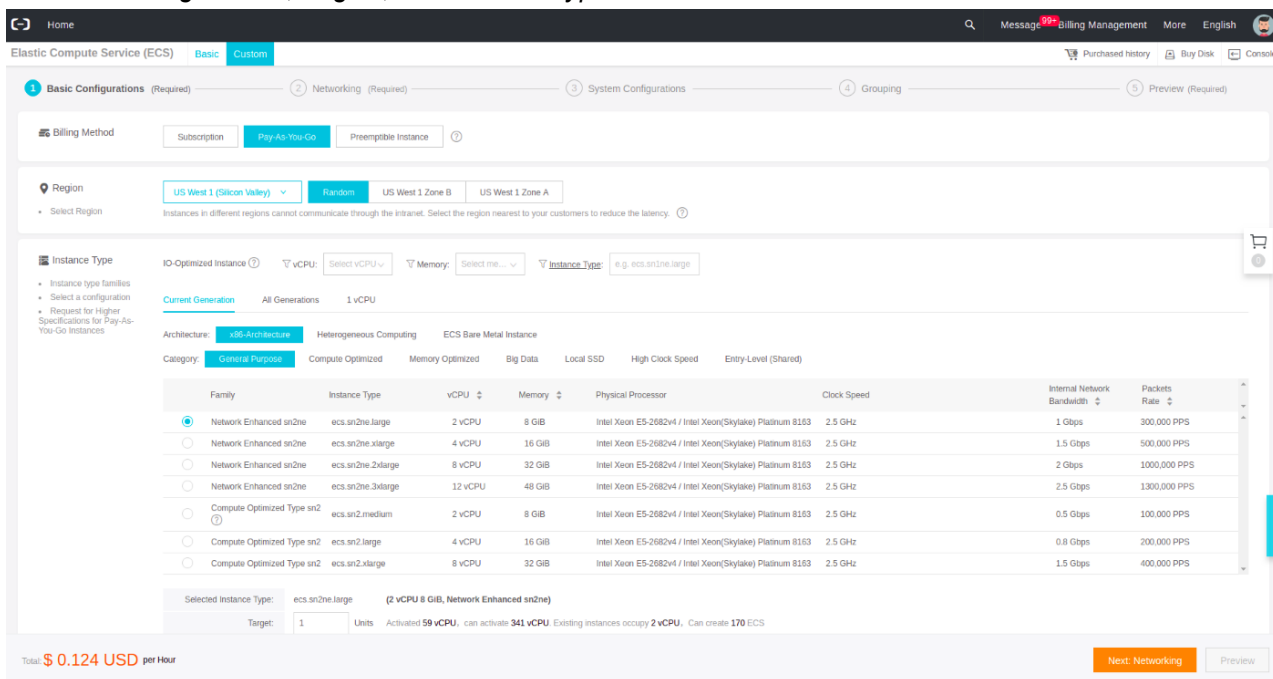
- Go to *Alibaba Cloud > Marketplace* and choose FortiManager. Click *Choose Your Plan* and continue from step 2 described below.
- Create a deployment image as described in [Creating the FortiManager deployment image on page 10](#) and follow the steps below.

**To create an instance:**

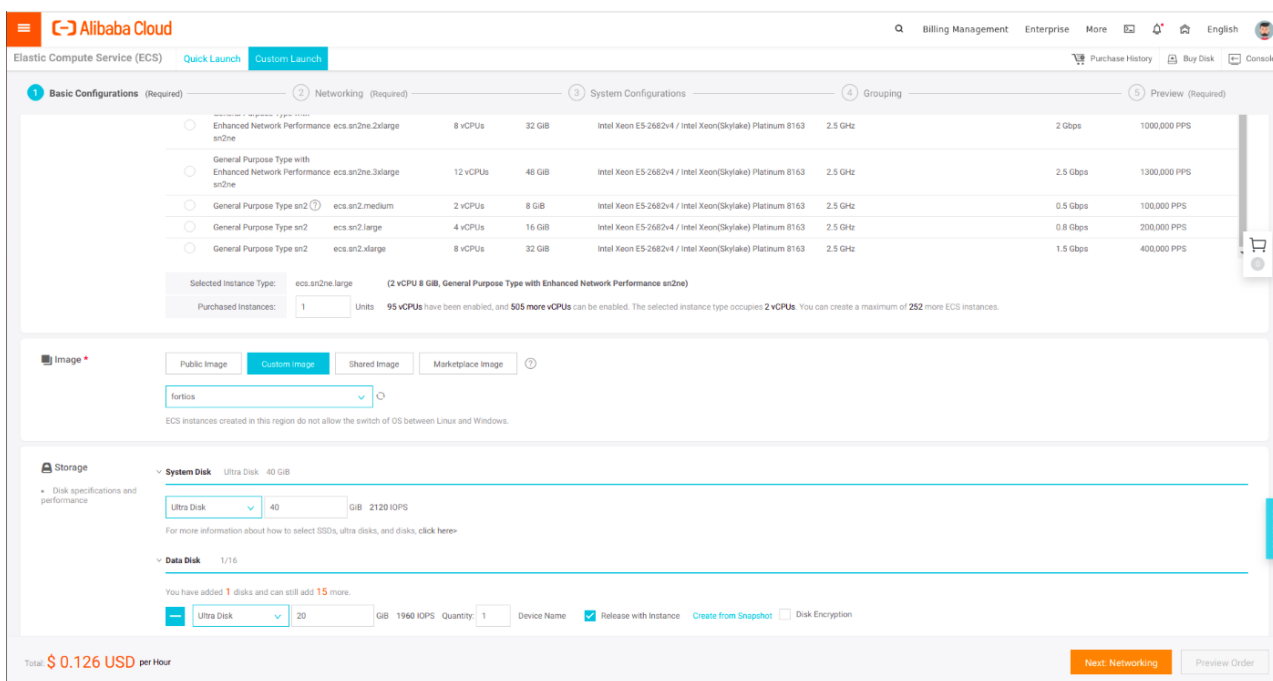
1. Go to *Elastic Computer Service > Instances*, and click *Create Instance*.



2. Select the *Billing Method, Region, and Instance Type.*

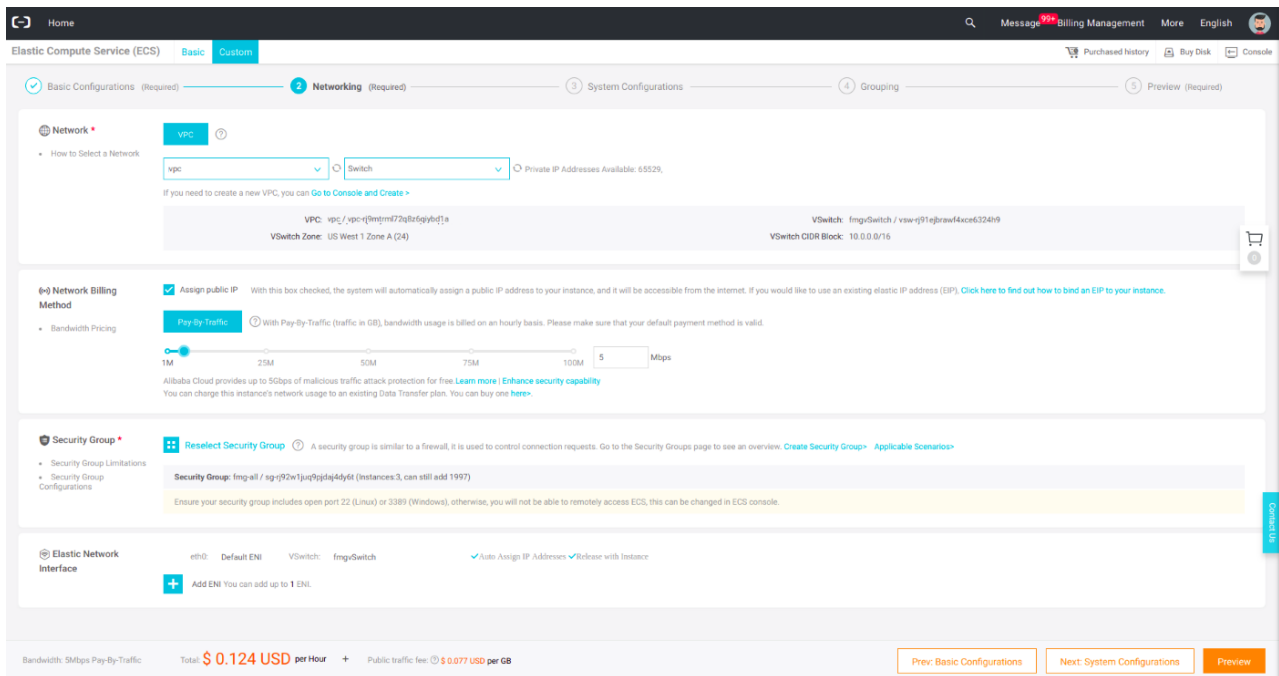


3. Select the *Image* uploaded in [Creating the FortiManager deployment image on page 10](#). If you are deploying FortiManager from the Marketplace, the image is selected automatically. Specify the storage. Create a *System Disk* and a *Data Disk*. Click *Next*.

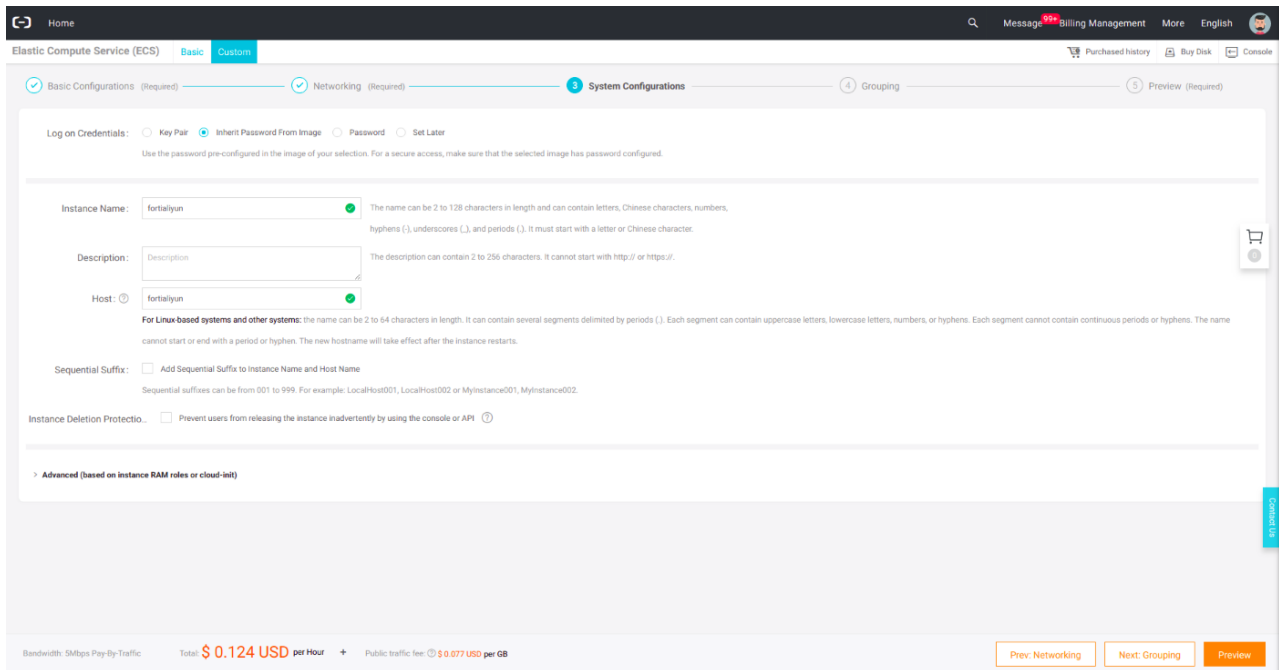


4. In *Network*, select the VPC and the Switch created in [Configuring Virtual Private Cloud on page 8](#). In *Network Billing Method*, select *Assign Public IP*. Select the Security Group created in [Creating security groups on page 12](#). Click *Next*.

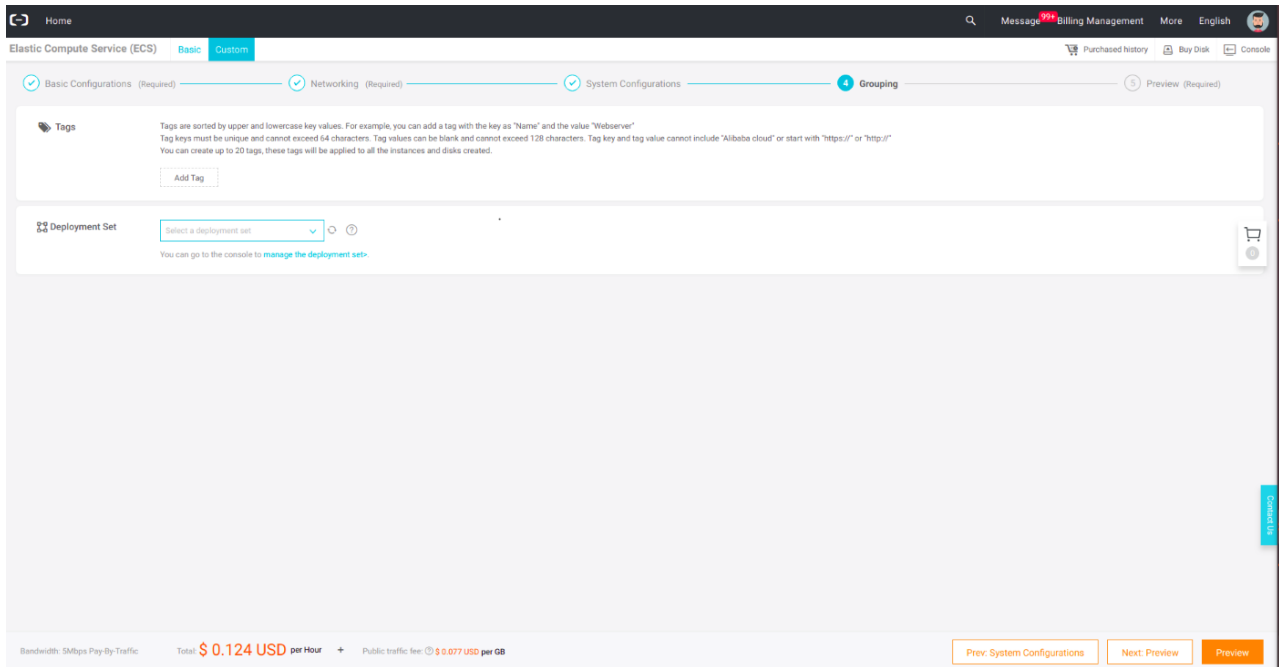




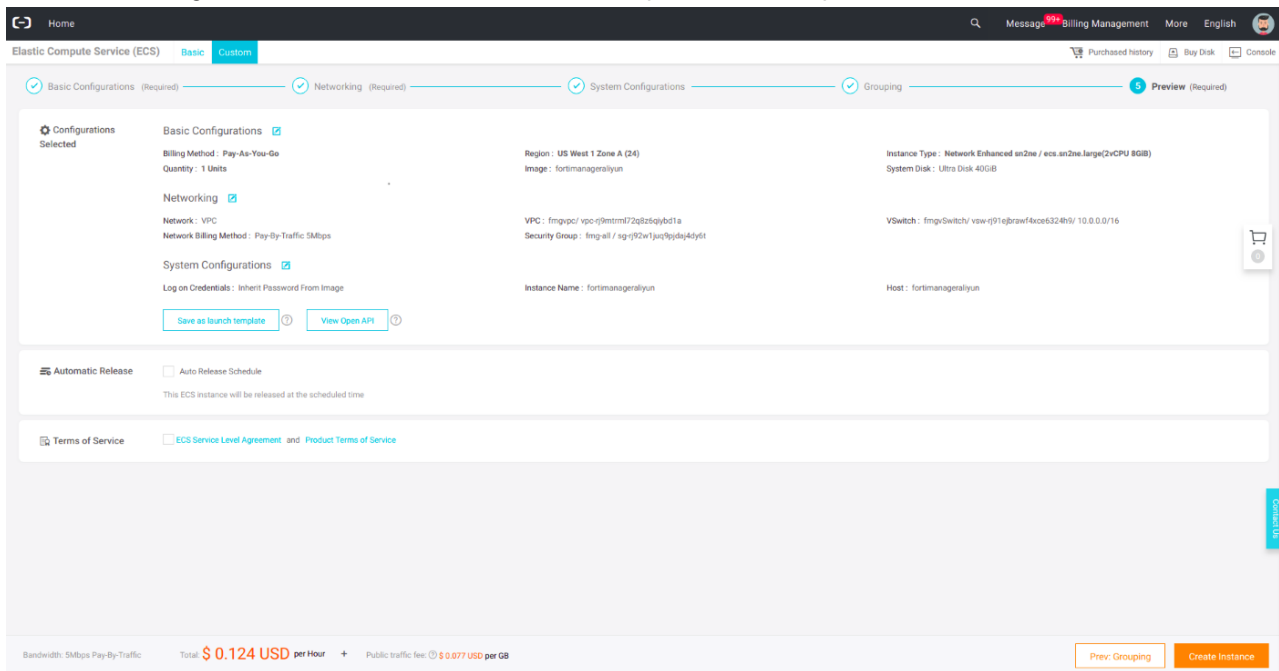
5. Add tags and select a *Deployment Set*. This step is optional. Click *Preview*.



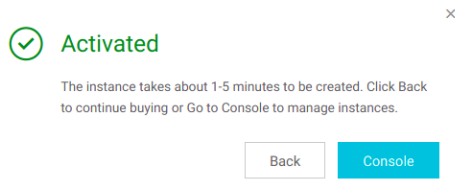
6. Add tags and select a *Deployment Set*. This step is optional. Click *Preview*.



7. Review the configuration, set an *Automatic Release* if required, and accept the *Terms of Service*



8. Click *Create Instance*. The instance takes about 1 to 5 minutes to be created.



Alibaba Cloud can provide you with more preferential and flexible cloud services. See the following documentation:

[Auto Scaling Service>](#)

[No fees for stopped instances\(VPC-Connected\)>](#)

[Switch from Pay-As-You-Go to subscription>](#)

[Change configurations of Pay-As-You-Go instances>](#)

[Change EIP Internet bandwidth>](#)

# Connecting to the FortiManager VM

To connect to the FortiManager VM, you need the public IP address.

The default username is admin and the default password is the AliCloud instance ID, which is represented as a number that can be found after locating the instance in AliCloud console.

## To connect to the FortiManager VM:

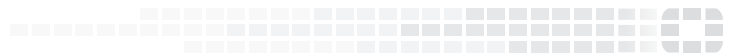
1. Click the FortiManager instance, and view details to get the public IP address.
2. Locate the instance ID and copy it to the clipboard.
3. In a browser, go to the public IP address for the FortiManager instance.
4. Enter the following information, and press Enter:
  - Login: admin
  - Password: Paste the instance ID from the clipboard.You are logged into the FortiManager GUI.
5. Change your password by following the prompts.

# Change Log

Date	Change Description
2019-05-01	Initial release.



**FORTINET®**



Copyright© 2019 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiCare® and FortiGuard®, and certain other marks are registered trademarks of Fortinet, Inc., in the U.S. and other jurisdictions, and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Counsel, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests. In no event does Fortinet make any commitment related to future deliverables, features or development, and circumstances may change such that any forward-looking statements herein are not accurate. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.