

# Create Amazon EC2 Instance

EC2 Management Console

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:sort=instanceId

AWS Services Edit

Feng Qian N. Virginia Support

EC2 Dashboard  
Events  
Tags  
Reports  
Limits

INSTANCES

Instances

Spot Requests  
Reserved Instances

IMAGES

AMIs  
Bundle Tasks

ELASTIC BLOCK STORE

Volumes  
Snapshots

NETWORK & SECURITY

Security Groups  
Elastic IPs  
Placement Groups

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Check
	i-257d8cda	t2.micro	us-east-1d	running	2/2 checks passed

Instance: i-257d8cda Public DNS: ec2-52-23-220-80.compute-1.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID	i-257d8cda	Public DNS	ec2-52-23-220-80.compute-1.amazonaws.com
Instance state	running	Public IP	52.23.220.80
Instance type	t2.micro	Elastic IP	-
Private DNS	ip-172-31-11-	Availability zone	us-east-1d

Feedback English

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Click "Launch Instance"

EC2 Management Console

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group

### Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

Root device type: ebs Virtualization type: hvm



Ubuntu


Free tier eligible

**Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-d05e75b8** **Select**

64-bit

Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root device type: ebs Virtualization type: hvm



Windows


Free tier eligible

**Microsoft Windows Server 2012 R2 Base - ami-c9cea0ac** **Select**

64-bit

Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]

Root device type: ebs Virtualization type: hvm



Amazon RDS

**Are you launching a database instance? Try Amazon RDS.** **Hide**

Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale a relational database of your choice (MySQL, PostgreSQL, Oracle, SQL Server) in the cloud. It provides cost-efficient and resizable capacity while managing time-consuming database management tasks, freeing you up to focus on your applications.

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Select Ubuntu Server 14.04 LTS.

Make sure you see “Free tier eligible”, as this gives you one-year free trial of the VM.

EC2 Management Console

← → ↺ <https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:> ⚡ 🔑 ☆ ☰

AWS ▾

Services ▾

Edit ▾

Feng Qian ▾

N. Virginia ▾

Support ▾

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Tag Instance

6. Configure Security Group

## Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by:

All instance types ▾

Current generation ▾

Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family ▾	Type ▾	vCPUs ⓘ ▾	Memory (GiB) ▾	Instance Storage (GB) ⓘ ▾	EBS-Optimized Available ⓘ ▾	Netw Performance
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to M
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to M
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to M
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to M

Cancel

Previous

Review and Launch

Next: Configure Instance Details

Feedback

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Select t2 micro, then click “Review and Launch”. In the next screen, click “Launch”

Make sure you see “Free tier eligible”, as this gives you one-year free trial of the VM.

EC2 Management Console

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

AWS Services Edit

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

### Step 7: Review

Free tier eligible

Instance Type

t2.micro

Security Groups

Security group Description

Type

### Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

**Key pair name**

fengqian\_p438

Download Key Pair

You have to download the **private key file** (\*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel Launch Instances

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Select “Create a new key pair”. Enter a random key pair name, then download it by clicking “Download Key Pair”.

Then click “Launch Instances”.

EC2 Management Console

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AWS Services Edit

Feng Qian N. Virginia Support

EC2 Dashboard  
Events  
Tags  
Reports  
Limits

INSTANCES

Instances

Spot Requests  
Reserved Instances

IMAGES

AMIs  
Bundle Tasks

ELASTIC BLOCK STORE

Volumes  
Snapshots







NETWORK & SECURITY

Security Groups  
Elastic IPs  
Placement Groups

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

1 to 2 of 2

	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Check
		i-257d8cda	t2.micro	us-east-1d	 running	 2/2 checks passed
		i-ac4eb20e	t2.micro	us-east-1b	 pending	 Initialization failed

Instance: i-257d8cda Public DNS: ec2-52-23-220-80.compute-1.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID	i-257d8cda	Public DNS	ec2-52-23-220-80.compute-1.amazonaws.com
Instance state	running	Public IP	52.23.220.80
Instance type	t2.micro	Elastic IP	-
Private DNS	ip-172-31-11-	Availability zone	us-east-1d

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Wait for a while.  
Amazon is creating  
your instance.

EC2 Management Console

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AWS Services Edit

Feng Qian N. Virginia Support

EC2 Dashboard  
Events  
Tags  
Reports  
Limits

INSTANCES

Instances

Spot Requests  
Reserved Instances

IMAGES

AMIs  
Bundle Tasks

ELASTIC BLOCK STORE

Volumes  
Snapshots

NETWORK & SECURITY

Security Groups  
Elastic IPs  
Placement Groups

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1 to 2 of 2

Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	running	2/2 checks...	None	ec2-52-23-220-80.comp...	52.23.220.80
	running	Initializing	None	ec2-54-85-249-231.com...	54.85.249.231

Instance: i-ac4eb20e Public DNS: ec2-54-85-249-231.compute-1.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID	i-ac4eb20e	Public DNS	ec2-54-85-249-231.compute-1.amazonaws.com
Instance state	running	Public IP	54.85.249.231
Instance type	t2.micro	Elastic IP	-
Private DNS	ip-172-31-46-	Availability zone	us-east-1b

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When the state becomes “running”, you can connect to your instance using the public IP address.



ubuntu@ip-172-31-46-248: ~

```
root@ubuntu:/home/fengqian# ssh -i fengqian_p438.pem ubuntu@54.85.249.231
Welcome to Ubuntu 14.04.2 LTS (GNU/Linux 3.13.0-48-generic x86_64)
```

\* Documentation: <https://help.ubuntu.com/>

System information as of Mon Oct 5 19:59:48 UTC 2015

System load:	0.0	Processes:	97
Usage of /:	9.8% of 7.74GB	Users logged in:	0
Memory usage:	5%	IP address for eth0:	172.31.46.248
Swap usage:	0%		

Graph this data and manage this system at:  
<https://landscape.canonical.com/>

Get cloud support with Ubuntu Advantage Cloud Guest:  
<http://www.ubuntu.com/business/services/cloud>

0 packages can be updated.  
0 updates are security updates.

Last login: Mon Oct 5 19:59:52 2015 from 140-182-213-70.dhcp-bl.indiana.edu  
ubuntu@ip-172-31-46-248:~\$



EC2 Management Console

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:sort=instanceId

AWS Services Edit

Feng Qian N. Virginia Support

EC2 Dashboard  
Events  
Tags  
Reports  
Limits

INSTANCES

Instances

Spot Requests  
Reserved Instances

IMAGES

AMIs  
Bundle Tasks

ELASTIC BLOCK STORE

Volumes  
Snapshots

NETWORK & SECURITY

Security Groups  
Elastic IPs  
Placement Groups

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

1 to 2 of 2

Public IP	Key Name	Monitoring	Launch Time	Security Groups
52.23.220.80	ec2.public	disabled	October 5, 2015 at 1:54:09 ...	launch-wizard-4
54.85.249.231	fengqian_p438	disabled	October 5, 2015 at 3:53:36 ...	launch-wizard-7

Instance: i-ac4eb20e Public DNS: ec2-54-85-249-231.compute-1.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID	i-ac4eb20e	Public DNS	ec2-54-85-249-231.compute-1.amazonaws.com
Instance state	running	Public IP	54.85.249.231
Instance type	t2.micro	Elastic IP	-
Private DNS	ip-172-31-46-	Availability zone	us-east-1b

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To open a port, click the link of “Security Groups”

EC2 Management Console

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:sort=instanceId

AWS Services Edit

Feng Qian N. Virginia Support

EC2 Dashboard  
Events  
Tags  
Reports  
Limits

INSTANCES

Instances

Spot Requests  
Reserved Instances

IMAGES

AMIs  
Bundle Tasks

ELASTIC BLOCK STORE

Volumes  
Snapshots

NETWORK & SECURITY

Security Groups  
Elastic IPs  
Placement Groups

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

1 to 2 of 2

Public IP	Key Name	Monitoring	Launch Time	Security Groups
52.23.220.80	ec2.public	disabled	October 5, 2015 at 1:54:09 ...	launch-wizard-4
54.85.249.231	fengqian_p438	disabled	October 5, 2015 at 3:53:36 ...	launch-wizard-7

Instance: i-ac4eb20e Public DNS: ec2-54-85-249-231.compute-1.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID	i-ac4eb20e	Public DNS	ec2-54-85-249-231.compute-1.amazonaws.com
Instance state	running	Public IP	54.85.249.231
Instance type	t2.micro	Elastic IP	-
Private DNS	ip-172-31-46-	Availability zone	us-east-1b

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To open a port, click the link of “Security Groups”

EC2 Management Console

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#SecurityGroups:search=sg-76de2910

AWS Services Edit

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EC2 Dashboard  
Events  
Tags  
Reports  
Limits

INSTANCES  
Instances  
Spot Requests  
Reserved Instances

IMAGES  
AMIs  
Bundle Tasks

ELASTIC BLOCK STORE  
Volumes  
Snapshots

NETWORK & SECURITY  
**Security Groups**  
Elastic IPs  
Placement Groups

Create Security Group Actions

search : sg-76de2910 Add filter

Name	Group ID	Group Name	VPC ID
	sg-76de2910	launch-wizard-7	vpc-b511a7d0

Security Group: sg-76de2910

Description Inbound Outbound Tags

Edit

Type	Protocol	Port Range	Source
SSH	TCP	22	0.0.0.0/0

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To open an inbound port, click the “Inbound” tab, then click “Edit”

EC2 Management Console

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#SecurityGroups:search=sg-76de2910

AWS Services Edit

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EC2 Dashboard Events Tags Reports Limits

Create Security Group Actions

search : sg-76de2910 Add filter

1 to 1 of 1

Name Group ID Group Name VPC ID

### Edit inbound rules

Type	Protocol	Port Range	Source
Custom TCP Rule	TCP	6000	Anywhere 0.0.0.0/0

Add Rule Cancel Save

SSH TCP 22 0.0.0.0/0

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Enable the port number(s) you will use in the project.