



Sign in as IAM user

Account ID (12 digits) or account alias

ceu

IAM user name

jia_li@student.ceu.edu

Password

.....

Sign in

[Sign in using root user email](#)

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English ▾

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Auto Scaling Groups

Feedback English (UK) ▾

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Security Groups (33) Info

Filter security groups

	Name	Security group ID	Security group name	VPC ID	Description
<input type="checkbox"/>	-	sg-02bba4e48fcce20d4	Windows Server	vpc-cf69a3a9	launch-wizard-43 crea...
<input type="checkbox"/>	-	sg-02d3212d0bca58e75	student-2003578	vpc-cf69a3a9	student-2003578
<input type="checkbox"/>	-	sg-032c8565031a66215	student-2001405	vpc-cf69a3a9	foo foo
<input type="checkbox"/>	-	sg-033057eca02513cc2	sq-2003888	vpc-cf69a3a9	Bruno
<input type="checkbox"/>	-	sg-033cdbf4d6cbef0b3	student-2001492	vpc-cf69a3a9	student-2001492
<input type="checkbox"/>	-	sg-034c1602b123ca683	student-abdu	vpc-cf69a3a9	abdu-sec-group
<input type="checkbox"/>	-	sg-0355239c5ef7d77c0	student2003877	vpc-cf69a3a9	sg-2003877
<input type="checkbox"/>	-	sg-03975d11f9f1b5476	1902120-de4-week3	vpc-cf69a3a9	de4 week 3
<input type="checkbox"/>	-	sg-042bf9883b77890c2	student-2003872	vpc-cf69a3a9	student-2003872
<input type="checkbox"/>	-	sg-0444d6a2884cc770c	student-2001316	vpc-cf69a3a9	security group for my ...
<input type="checkbox"/>	-	sg-04e300e4aee8db532	student-2001531	vpc-cf69a3a9	student-2001531
<input type="checkbox"/>	-	sg-05cae53e5db588645	student-2003873	vpc-cf69a3a9	anything
<input type="checkbox"/>	-	sg-05eb897a5dd3ec6ca	student-2001928	vpc-cf69a3a9	DE3
<input type="checkbox"/>	-	sg-0625d1d61ca7f1c22	student-2003898	vpc-cf69a3a9	DE3_2003898
<input type="checkbox"/>	ECS default - ECS S...	sg-06bb12bf3e3066546	EC2ContainerService-d...	vpc-06547675afa3264b8	ECS Allowed Ports
<input type="checkbox"/>	-	sg-0733f3f0be517c421	default	vpc-06547675afa3264b8	default VPC security gr...

Create security group

Feedback English (UK) ▾

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Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name Info

Name cannot be edited after creation.

Description Info**VPC** Info

Inbound rules Info

Type Info**Protocol** Info**Port range** Info**Source** Info**Description - optional** Info

Screenshot of the AWS Security Groups configuration page for a new security group.

Security Group Rules:

Type	Protocol	Port range	Source	Description - optional
SSH	TCP	22	Anywhere (0.0.0.0/0)	
			::/0	

Add rule

Outbound rules:

Type	Protocol	Port range	Destination	Description - optional
All traffic	All	All	Custom (0.0.0.0/0)	

Add rule

Tags - optional:
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.
No tags associated with the resource.

Add new tag
You can add up to 50 more tags

Create security group (button highlighted with a red arrow)

aws Services ▾

New EC2 Experience Tell us what you think X

EC2 Dashboard New

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Tags

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- Placement Groups New

Feedback English (UK) ▾

Security group (sg-0fb5e742b9227f88f | secgroup-2000692-homework) was created successfully

▶ Details

EC2 > Security Groups > sg-0fb5e742b9227f88f - secgroup-2000692-homework

sg-0fb5e742b9227f88f - secgroup-2000692-homework

Actions ▾

Details			
Security group name	Security group ID	Description	VPC ID
secgroup-2000692-homework	sg-0fb5e742b9227f88f	secgroup-2000692-homework	vpc-cf69a3a9
Owner	Inbound rules count	Outbound rules count	
455745865449	2 Permission entries	1 Permission entry	

Inbound rules Outbound rules Tags

Inbound rules				
Type	Protocol	Port range	Source	Description - optional
SSH	TCP	22	0.0.0.0/0	-
SSH	TCP	22	::/0	-

Edit inbound rules

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Network & Security

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- Key Pairs [New](#)** ← Red arrow pointing here

Load Balancing

- Load Balancers
- Target Groups [New](#)

Feedback English (UK) ▾

Key pairs (27)

<input type="checkbox"/>	Name	Fingerprint	ID
<input type="checkbox"/>	kp-1901587-homework	a7:58:93:40:47:88:34:9e:1b:72:41:77:2...	key-0c77a608d35bb4548
<input type="checkbox"/>	kp-20003615	31:5:c3:d:d4:df:76:12:a0:9a:b3:29:77:a...	key-07971ffad9112e563
<input type="checkbox"/>	kp-2000692	87:3d:7c:73:8a:f5:9b:a5:bb:93:0b:32:b...	key-081e4f71bc18b7df9
<input type="checkbox"/>	kp-2001316	2d:79:aa:10:ca:85:26:fc:97:8e:83:55:a3...	key-0d4b482238d5ed789
<input type="checkbox"/>	kp-2001405	6e:55:11:9e:f9:03:4a:72:0c:7a:bd:8a:a4...	key-0e8df2d2fdfa5fe1d
<input type="checkbox"/>	kp-2001492	ef:30:d6:b5:b8:ba:c9:be:2b:e2:60:fb:de...	key-0b189c540cad62909
<input type="checkbox"/>	kp-2001531	9b:e5:60:93:3b:a6:6e:08:10:3a:7c:5c:d...	key-0b9fcaa7640168675
<input type="checkbox"/>	kp-2001928	f0:db:f1:11:90:54:35:6e:ad:75:f1:ea:15...	key-01ec87dd016772cf1
<input type="checkbox"/>	kp-2001928-homework	79:71:01:d1:9b:d5:27:52:99:6c:55:e9:b...	key-0badd513468f8175f
<input type="checkbox"/>	kp-2002392	83:7e:ba:be:ee:d8:13:99:2e:4f:b3:bd:3...	key-05bb974f8e2455b63
<input type="checkbox"/>	kp-2003316	a8:e4:e0:d6:e2:6a:da:ba:8c:e6:af:94:05...	key-0cae23ddebc802121
<input type="checkbox"/>	kp-2003374	17:f3:07:35:f4:00:b4:bc:6f:81:6e:ba:5a:...	key-01d4917a3f5a393aa
<input type="checkbox"/>	kp-2003382	d9:4c:1a:86:93:14:74:2f:85:1f:84:2b:0...	key-0b5bf2c6281e9beb0
<input type="checkbox"/>	kp-2003578	a6:9d:50:e7:9a:fe:9f:e5:2d:07:e1:05:cb...	key-02e1083fea5b876cf
<input type="checkbox"/>	kp-2003629	37:2a:2d:f7:df:c2:31:26:d6:96:5e:14:06...	key-00911e578934a4d3c
<input type="checkbox"/>	kp-2003870	f3:49:0a:f3:d8:40:b7:ac:03:38:47:7c:15...	key-0361edb083957330
<input type="checkbox"/>	kp-2003872	12:b8:a2:1c:3d:e7:0b:0e:f6:e0:c9:81:3b...	key-0c1ca579b285c3ef4
<input type="checkbox"/>	kp-2003873	d9:62:af:30:7b:94:ee:3d:13:1b:65:1b:e...	key-050354d16396c2678
<input type="checkbox"/>	kp-2003877	2a:3e:b8:ea:28:0e:2e:d9:2c:f7:2d:cf:ed:...	key-08cc9047eec5a2f96
<input type="checkbox"/>	kp-2003888	66:5e:74:70:a7:f4:9d:86:74:99:a4:ab:2f...	key-0f1763eec0a4d9d7f
<input type="checkbox"/>	kp-2003898	60:71:cc:74:58:14:b3:19:e2:88:01:20:e...	key-00f64570b0ae812d5
<input type="checkbox"/>	kp-2006313	32:18:6b:e2:66:56:b9:70:39:4b:90:f1:e...	key-0614521e49bf0120c
<input type="checkbox"/>	kn-9999999	67:17:6c:ef:75:85:21:f9:54:e1:79:21:b3	key-06e0a28fce32c88d7

Actions ▾ Create key pair

Filter key pairs

← 1 → ⚙

EC2 > Key pairs > Create key pair

Create key pair

Key pair

A key pair, consisting of a private key and a public key, is a set of security credentials that you use to prove your identity when connecting to an instance.

Name

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

File format

 pem

For use with OpenSSH

 ppk

For use with PuTTY

Tags (Optional)

No tags associated with the resource.

[Add tag](#)

You can add 50 more tags

[Cancel](#)[Create key pair](#)

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New EC2 Experience Tell us what you think X

Key pairs (1/28) Actions ▾ Create key pair

Name	Fingerprint	ID
kp-1901587-homework	a7:58:93:40:47:88:34:9e:1b:72:41:77:2...	key-0c77a608d35bb4548
kp-20003615	31:5c:3d:d4:df:76:12:a0:9a:b3:29:77:a...	key-07971ffad9112e563
kp-2000692	87:3d:7c:73:8a:f5:9b:a5:bb:93:0b:32:b...	key-081e4f71bc18b7df9
<input checked="" type="checkbox"/> kp-2000692-homework	d4:77:43:42:16:82:f4:0c:c6:74:01:63:a...	key-007c21a8c3f72b2be
kp-2001316	2d:79:aa:10:ca:85:26:fc:97:8e:83:55:a3...	key-0d4b482238d5ed789
kp-2001405	6e:55:11:9e:f9:03:4a:72:0c:7a:bd:8a:a4...	key-0e8df2d2fdfa5fe1d
kp-2001492	ef:30:d6:b5:b8:ba:c9:be:2b:e2:60:fb:de...	key-0b189c540cad62909
kp-2001531	9b:e5:60:93:3b:a6:6e:08:10:3a:7c:5c:d...	key-0b9fcfaa7640168675
kp-2001928	f0:db:f1:11:90:54:35:6e:ad:75:f1:ea:15...	key-01ec87dd016772cf1
kp-2001928-homework	79:71:01:d1:9b:d5:27:52:99:6c:55:e9:b...	key-0badd513468f8175f
kp-2002392	83:7e:ba:be:ee:d8:13:99:2e:4f:b3:bd:3...	key-05bb974f8e2455b63
kp-2003316	a8:e4:e0:d6:e2:6a:da:ba:8c:e6:af:94:05...	key-0cae23ddebc802121
kp-2003374	17:f3:07:35:f4:00:b4:bc:6f:81:6e:ba:5a:...	key-01d4917a3f5a393aa
kp-2003382	d9:4c:1a:86:93:14:74:2f:85:1f:84:2b:0...	key-0b5bf2c6281e9beb0
kp-2003578	a6:9d:50:e7:9a:fe:9f:e5:2d:07:e1:05:cb...	key-02e1083fea5b876cf
kp-2003629	37:2a:2d:f7:df:c2:31:26:d6:96:5e:14:06...	key-00911e578934a4d3c
kp-2003870	f3:49:0a:f3:d8:40:b7:ac:03:38:47:7c:15...	key-0361edbf083957330
kp-2003872	12:b8:a2:1c:3d:e7:0b:0e:f6:e0:c9:81:3b...	key-0c1ca579b285c3ef4
kp-2003873	d9:62:af:30:7b:94:ee:3d:13:1b:65:1b:e...	key-050354d16396c2678

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New EC2 Experience Tell us what you think ×

Instances (3) Info

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Events New

Tags

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kp-2000692-ho...perm Show all ×

Instances (3) Info

Filter instances

Actions ▾ Launch instances 

Name	Instance ID	Instance state	Instance type	Status check	Alarm
KINESIS FEEDER DO NOT TERMINATE	i-0f3e23bd0e0a898a0	Stopped	t2.small	-	User:
KEEP shared RStudio Server for the Mastering R class	i-0a5df248e7ea17e9a	Stopped	t3a.large	-	User:
Windows DEMO VM - do not delete	i-0416f1ea968643c35	Running	t2.small	2/2 checks ...	User:

Select an instance above

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

Step 1: Choose an Amazon Machine Image (AMI)

[Quick Start](#)

[Cancel and Exit](#)

1 to 39 of 39 AMIs

AMI Name	Description	Root device type	Virtualization type	ENAs Enabled	Select
Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-014ce76919b528bff (64-bit x86) / ami-0f706da0eaaffbaaf (64-bit Arm)	Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.	ebs	hvm	Yes	<input checked="" type="button"/> Select
Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-032e5b6af8a711f30 (64-bit x86) / ami-04bf89f1458bbef8a (64-bit Arm)	Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type	ebs	hvm	Yes	<input checked="" type="button"/> Select
SUSE Linux Enterprise Server 15 SP2 (HVM), SSD Volume Type - ami-051cbea0e7660063d (64-bit x86) / ami-01b29647f47846dc1 (64-bit Arm)	SUSE Linux Enterprise Server 15 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.	ebs	hvm	Yes	<input checked="" type="button"/> Select
Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-0aef57767f5404a3c (64-bit x86) / ami-08eae9b2b97caf274 (64-bit Arm)	Ubuntu Server 20.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).	ebs	hvm	Yes	<input checked="" type="button"/> Select
Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-0dc8d444ee2a42d8a (64-bit x86) / ami-0c7316a2d5e1a85a1 (64-bit Arm)	Ubuntu Server 18.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).	ebs	hvm	Yes	<input checked="" type="button"/> Select

Free tier only [\(i\)](#)

[Cancel and Exit](#)

1 to 39 of 39 AMIs

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

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 families ▾ Current generation ▾ Show/Hide Columns

Currently selected: t2.nano (~ ECUs, 1 vCPUs, 2.4 GHz, ~ 0.5 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input checked="" type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous **Review and Launch** **Next: Configure Instance Details**

Easy Amazon EC2 Instance Comparison																																																																							
Region: Europe (Ireland) Cost: Hourly Reserved: 1-year - Full Upfront Columns Compare Selected Clear Filters CSV																																																																							
Filter: Min Memory (GiB): 0 Min vCPUs: 0 Min Storage (GiB): 0 Search:																																																																							
<table><thead><tr><th>Name</th><th>API Name</th><th>Memory</th><th>vCPUs</th><th>Instance Storage</th><th>Network Performance</th><th>Linux On Demand cost</th><th>Linux Reserved cost</th><th>Windows On Demand cost</th><th>Windows Reserved cost</th></tr></thead><tbody><tr><td>Search</td><td>nano</td><td>Search</td><td>Search</td><td>Search</td><td>Search</td><td>Search</td><td>Search</td><td>Search</td><td>Search</td></tr><tr><td>T3A Nano</td><td>t3a.nano</td><td>0.5 GiB</td><td>2 vCPUs for a 1h 12m burst</td><td>EBS only</td><td>Up to 5 Gigabit</td><td>\$0.005100 hourly</td><td>\$0.002968 hourly</td><td>\$0.009700 hourly</td><td>\$0.007648 hourly</td></tr><tr><td>T4G Nano</td><td>t4g.nano</td><td>0.5 GiB</td><td>2 vCPUs for a 1h 12m burst</td><td>EBS only</td><td>Up to 5 Gigabit</td><td>\$0.004600 hourly</td><td>\$0.002740 hourly</td><td>unavailable</td><td>unavailable</td></tr><tr><td>T2 Nano</td><td>t2.nano</td><td>0.5 GiB</td><td>1 vCPUs for a 1h 12m burst</td><td>EBS only</td><td>Low to Moderate</td><td>\$0.006300 hourly</td><td>\$0.004110 hourly</td><td>\$0.008600 hourly</td><td>\$0.006393 hourly</td></tr><tr><td>T3 Nano</td><td>t3.nano</td><td>0.5 GiB</td><td>2 vCPUs for a 1h 12m burst</td><td>EBS only</td><td>Up to 5 Gigabit</td><td>\$0.005700 hourly</td><td>\$0.003311 hourly</td><td>\$0.010300 hourly</td><td>\$0.007991 hourly</td></tr></tbody></table>												Name	API Name	Memory	vCPUs	Instance Storage	Network Performance	Linux On Demand cost	Linux Reserved cost	Windows On Demand cost	Windows Reserved cost	Search	nano	Search	T3A Nano	t3a.nano	0.5 GiB	2 vCPUs for a 1h 12m burst	EBS only	Up to 5 Gigabit	\$0.005100 hourly	\$0.002968 hourly	\$0.009700 hourly	\$0.007648 hourly	T4G Nano	t4g.nano	0.5 GiB	2 vCPUs for a 1h 12m burst	EBS only	Up to 5 Gigabit	\$0.004600 hourly	\$0.002740 hourly	unavailable	unavailable	T2 Nano	t2.nano	0.5 GiB	1 vCPUs for a 1h 12m burst	EBS only	Low to Moderate	\$0.006300 hourly	\$0.004110 hourly	\$0.008600 hourly	\$0.006393 hourly	T3 Nano	t3.nano	0.5 GiB	2 vCPUs for a 1h 12m burst	EBS only	Up to 5 Gigabit	\$0.005700 hourly	\$0.003311 hourly	\$0.010300 hourly	\$0.007991 hourly							
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<p>Why? Because it's frustrating to compare instances using Amazon's own instance type, pricing, and other pages.</p> <p>Who? It was started by @powdahound, contributed to by many, and awaits your improvements on GitHub.</p> <p>How? Data is scraped from multiple pages on the AWS site. This was last done at 2020-11-24 02:15:51 UTC.</p> <p>Warning: This site is not maintained by or affiliated with Amazon. The data shown is not guaranteed to be accurate or current. Please report issues you see.</p>																																																																							
 kp-2000692-ho...perm	^	Show all	X																																																																				

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

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	<input type="text" value="1"/>	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot instances	
Network	<input type="text" value="vpc-cf69a3a9 (default)"/>	<input type="button" value="Create new VPC"/>
Subnet	<input type="text" value="No preference (default subnet in any Availability Zone)"/>	<input type="button" value="Create new subnet"/>
Auto-assign Public IP	<input type="button" value="Use subnet setting (Enable)"/>	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	<input type="button" value="Open"/>	
Domain join directory	<input type="text" value="No directory"/>	<input type="button" value="Create new directory"/>
For domain join to succeed, the selected AMI must include a compatible AWS Systems Manager Agent (SSM Agent).		
IAM role	<input type="text" value="None"/>	<input type="button" value="Create new IAM role"/>
Select an IAM role that has read access to Secrets Manager, and that has the following AWS managed policies attached to it: AmazonSSMManagedInstanceCore and AmazonSSMDirectoryServiceAccess . Learn more		
<p>⚠️ You do not have permissions to list instance profiles. Contact your administrator, or check your IAM permissions.</p>		
CPU options	<input type="checkbox"/> Specify CPU options	
Shutdown behavior	<input type="text" value="Stop"/>	
Stop - Hibernate behavior	<input type="checkbox"/> Enable hibernation as an additional stop behavior	
Cancel Previous Review and Launch Next: Add Storage		

[1. Choose AMI](#) [2. Choose Instance Type](#) [3. Configure Instance](#) [4. Add Storage](#) [5. Add Tags](#) [6. Configure Security Group](#) [7. Review](#)

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type i	Device i	Snapshot i	Size (GiB) i	Volume Type i	IOPS i	Throughput (MB/s) i	Delete on Termination i	Encryption i
Root	/dev/sda1	snap-0ce9e21f8b1826226	<input type="text" value="8"/>	<input type="button" value="General Purpose SSD (gp2)"/>	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

[Add New Volume](#)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

[Cancel](#)[Previous](#)[Review and Launch](#)[Next: Add Tags](#)

[1. Choose AMI](#) [2. Choose Instance Type](#) [3. Configure Instance](#) [4. Add Storage](#) [5. Add Tags](#) [6. Configure Security Group](#) [7. Review](#)

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances ⓘ Volumes ⓘ
<i>This resource currently has no tags</i> Choose the Add tag button or click to add a Name tag . Make sure your IAM policy includes permissions to create tags.		
Add Tag (Up to 50 tags maximum)		



[Cancel](#) [Previous](#) **Review and Launch** [Next: Configure Security Group](#)

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

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group:

- Create a new security group
- Select an existing security group

Security Group ID	Name	Description	Actions
sg-03975d11f9f1b5476	1902120-de4-week3	de4 week 3	Copy to new
sg-f25b8f88	default	default VPC security group	Copy to new
sg-0923545c36544b6da	kinesis-feeder	kinesis-feeder	Copy to new
sg-07b43f8039001ad3f	s-2003578-homework	s-2003578-homework	Copy to new
sg-0fb5e742b9227f88f	secgroup-2000692-homework	secgroup-2000692-homework	Copy to new
sg-0d05bf2232197c31c	sg_1901587_homework	Key description _ sg-1901587-homework	Copy to new
sg-0ec51b7357aad367	sq-2003382	sq-2003382	Copy to new
sg-033057eca02513cc2	sq-2003888	Bruno	Copy to new
sg-0b9a6d823b2ad4702	student-2000692	student-2000692	Copy to new
sg-0444d6a2884cc770c	student-2001316	security group for my first virtual machine	Copy to new

Inbound rules for sg-0fb5e742b9227f88f (Selected security groups: sg-0fb5e742b9227f88f)

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	
SSH	TCP	22	::/0	

Review and Launch 

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

Step 7: Review Instance Launch

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-0aef57767f5404a3c

Free tier eligible Ubuntu Server 20.04 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

Instance Type Edit instance type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.nano	-	1	0.5	EBS only	-	Low to Moderate

Security Groups Edit security groups

Security Group ID	Name	Description
sg-0fb5e742b9227f88f	secgroup-2000692-homework	secgroup-2000692-homework

All selected security groups inbound rules

Type (i)	Protocol (i)	Port Range (i)	Source (i)	Description (i)
SSH	TCP	22	0.0.0.0/0	
SSH	TCP	22	::/0	

Instance Details Edit instance details

Storage Edit storage

Tags Edit tags

Cancel Previous Launch

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

Step 7: Review Instance Launch

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-0aef57767f5404a3c

Free tier eligible Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs
t2.nano	-	1

Security Groups

Security Group ID
sg-0fb5e742b9227f88f

All selected security groups inbound rules

Type (i)	Protocol
SSH	TCP
SSH	TCP

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](#).

Choose an existing key pair
Select a key pair
kp-2000692-homework

I acknowledge that I have access to the selected private key file (kp-2000692-homework.pem), and that without this file, I won't be able to log into my instance.

Cancel Launch Instances



Launch Status

✓ Your instances are now launching

The following instance launches have been initiated: i-006d0c3c3c42f1b23 [View launch log](#)



ⓘ Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

▼ Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)
- [Create and attach additional EBS volumes](#) (Additional charges may apply)
- [Manage security groups](#)

[View Instances](#)

aws Services ▾

New EC2 Experience Tell us what you think

EC2 Instances i-006d0c3c3c42f1b23

EC2 Dashboard New

Events New

Tags

Limits

Instances Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts Dedicated Hosts New

Scheduled Instances

Capacity Reservations

Images AMIs

Elastic Block Store Volumes

Snapshots

Lifecycle Manager

Network & Security Security Groups New

Elastic IPs New

Placement Groups New

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Instance summary for i-006d0c3c3c42f1b23 (Li Deborah Jia HW) Info

Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-006d0c3c3c42f1b23 (Li Deborah Jia HW)	52.51.229.27 open address	172.31.17.38
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	ec2-52-51-229-27.eu-west-1.compute.amazonaws.com open address	ip-172-31-17-38.eu-west-1.compute.internal
Instance type	Elastic IP addresses	VPC ID
t2.nano	-	vpc-cf69a3a9
AWS Compute Optimizer finding	IAM Role	Subnet ID
<p>⌚ {"message": "User: arn:aws:iam::455745865449:user/jia_li@student.ceu.edu is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: *"; "response": {"__type": "\\"AccessDeniedException\\", "message": "\\nUser: arn:aws:iam::455745865449:user/jia_li@student.ceu.edu is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: *"}}</p> <p>Retry</p>	-	subnet-c9807e81

C Connect Instance state ▲

Stop instance Start instance Hibernate instance Reboot instance Terminate instance

Internal

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New EC2 Experience Tell us what you think X

EC2 Dashboard New Events New Tags Limits Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts New Scheduled Instances Capacity Reservations Images AMIs Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups New Elastic IPs New Placement Groups New Feedback English (UK) ▾ © 2008 - 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use

EC2 Instances i-006d0c3c3c42f1b23

Instance summary for i-006d0c3c3c42f1b23 (Li Deborah Jia HW) Info Updated less than a minute ago

Instance ID: i-006d0c3c3c42f1b23 (Li Deborah Jia HW) Public IPv4 address: 52.51.229.27 | open address Private IPv4 addresses: 172.31.17.38

Instance state: Running Public IPv4 DNS: ec2-52-51-229-27.eu-west-1 Private IPv4 DNS: ip-172-31-17-38.eu-west-1.compute.internal

Instance type: t2.nano AWS Compute Optimizer finding: {"message": "User: arn:aws:iam::455745865449:user/jia_li is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: \"/\".", "response": "\\"__type\\": \"AccessDeniedException\""} User: arn:aws:iam::455745865449:user/jia_li@student.ceu.edu is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: \"/\"."}

Retry

Terminate instance? X

Instance IDs: i-006d0c3c3c42f1b23 (Li Deborah Jia HW)

To confirm that you want to terminate the instance, choose the **terminate** button below. Terminating the instance cannot be undone.

Cancel Terminate



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New EC2 Experience Tell us what you think × Successfully terminated i-006d0c3c3c42f1b23

EC2 Dashboard New Events New Tags Limits

Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts New Scheduled Instances Capacity Reservations

Images AMIs

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups New Elastic IPs New Placement Groups New

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Instance summary for i-006d0c3c3c42f1b23 (Li Deborah Jia HW) Info

Updated less than a minute ago

C Connect Instance state ▾

Instance ID	Public IPv4 address	Private IPv4 addresses
i-006d0c3c3c42f1b23 (Li Deborah Jia HW)	-	-

Instance state	Public IPv4 DNS	Private IPv4 DNS
Shutting-down	-	-

Instance type	Elastic IP addresses	VPC ID
t2.nano	-	-

AWS Compute Optimizer finding	IAM Role	Subnet ID
<pre>⊗ {"message": "User: arn:aws:iam::455745865449:user/jia_li@student.ceu.edu is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: *","response": "{\"__type\":\"AccessDeniedException\",\"message\": \"User: arn:aws:iam::455745865449:user/jia_li@student.ceu.edu is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: *\")}"</pre>	-	-

Security Details Networking Storage Monitoring Tags

▼ Security details

IAM Role	Owner ID	Launch time

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New EC2 Experience Tell us what you think X

EC2 Dashboard New

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Network & Security

- Security Groups New
- Elastic IPs New
- Placement Groups New

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Security Groups (1/34) Info

Filter security groups

	Name	Security group ID	Security group name	VPC ID	Actions	Create security group
<input type="checkbox"/>	-	sg-03975d11f9f1b5476	1902120-de4-week3	vpc-cf69a3a9	View details	1 >
<input type="checkbox"/>	-	sg-0733f3f0be517c421	default	vpc-0654767	Edit inbound rules	Edit outbound rules
<input type="checkbox"/>	-	sg-0837e2200f1dd3772	default	vpc-062f5b0l	Manage tags	Manage stale rules
<input type="checkbox"/>	-	sg-08bb1e907df9bb519	default	vpc-0328f7fa	Copy to new security group	Delete security group
<input type="checkbox"/>	-	sg-0ab944d61f39c252a	default	vpc-0f3a45c4c4d2b7569	default VPC security gr...	
<input type="checkbox"/>	-	sg-f25b8f88	default	vpc-cf69a3a9	default VPC security gr...	
<input type="checkbox"/>	ECS default - ECS S...	sg-06bb12bf3e3066546	EC2ContainerService-d...	vpc-06547675afa3264b8	ECS Allowed Ports	
<input type="checkbox"/>	-	sg-0923545c36544b6da	kinesis-feeder	vpc-cf69a3a9	kinesis-feeder	
<input type="checkbox"/>	-	sg-07b43f8039991ad3f	s-2003578-homework	vpc-cf69a3a9	s-2003578-homework	
<input checked="" type="checkbox"/>	-	sg-0fb5e742b9227f88f	secgroup-2000692-ho...	vpc-cf69a3a9	secgroup-2000692-ho...	
<input type="checkbox"/>	Yuri Almeida Cunha	sg-0d05bf2232197c31c	sg_1901587_homework	vpc-cf69a3a9	Key description _sg-1...	
<input type="checkbox"/>	-	sg-0ec518b7357aad367	sq-2003382	vpc-cf69a3a9	sq-2003382	
<input type="checkbox"/>	-	sg-033057eca02513cc2	sq-2003888	vpc-cf69a3a9	Bruno	
<input type="checkbox"/>	-	sg-0b9a6d823b2ad4702	student-2000692	vpc-cf69a3a9	student-2000692	
<input type="checkbox"/>	-	sg-0444d6a2884cc770c	student-2001316	vpc-cf69a3a9	security group for my ...	
<input type="checkbox"/>	-	sg-032c8565031a66215	student-2001405	vpc-cf69a3a9	foo foo	

sg-0fb5e742b9227f88f - secgroup-2000692-homework

Details Inbound rules Outbound rules Tags

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New EC2 Experience Tell us what you think X

EC2 Dashboard New

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Security Groups (34) Info

Filter security groups

Name	Security group ID	Security group name	VPC ID	Description
sg-03975d11f9f1b5476	1902120-de4-week3	vpc-cf69a3a9	de4 week 3	
sg-0733f3f0be517c421	default	vpc-06547675afa3264b8	default VPC security gr...	
sg-0837e2200f1dd3772	default	vpc-062f5b0b026d9de34	default VPC security gr...	
sg-08bb1e907df9bb519	default	vpc-0328f7fa6605b0f6b	default VPC security gr...	
sg-0ab944d61f39c252a	default	vpc-0f3a45c4c4d2b7569	default VPC security gr...	

Delete security groups

Are you sure that you want to delete this security group?

- sg-0fb5e742b9227f88f - secgroup-2000692-homework

Cancel Delete

Red arrow pointing to the Delete button.

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Savings Plans
Reserved Instances
Dedicated Hosts New
Scheduled Instances
Capacity Reservations

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Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

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Elastic IPs New
Placement Groups New
Key Pairs New (highlighted with a red box)
Network Interfaces New

Load Balancing
Load Balancers
Target Groups New

Auto Scaling
Launch Configurations
Auto Scaling Groups

Key pairs (1/2)

Filter key pairs
search: 2000692 X Clear filters

	Name	Fingerprint	ID
<input type="checkbox"/>	kp-2000692	87:3d:7c:73:8a:f5:9b:a5:bb:93:0b:32:b...	key-081e4f71bc18b7df9
<input checked="" type="checkbox"/>	kp-2000692-homework	d4:77:43:42:16:82:f4:0c:c6:74:01:63:a...	key-007c21a8c3f72b2be

Actions ▾ Create key pair
Import key pair
Delete
Manage tags

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Network Interfaces New

Load Balancing
Load Balancers
Target Groups New

Auto Scaling
Launch Configurations
Auto Scaling Groups

Key pairs (1/2)

Filter key pairs

search: 2000692 Clear filters

Name	Fingerprint	ID
kp-2000692	87:3d:7c:73:8a:f5:9b:a5:bb:93:0b:32:b...	key-081e4f71bc18b7df9
kp-2000692-homework	d4:77:43:42:16:82:f4:0c:c6:74:01:63:a...	key-007c21a8c3f72b2be

kp-2000692-homework could be associated with one or more instances.

Delete kp-2000692-homework

To confirm deletion, type *delete* in the field

