

# LAUNCHING UBUNTU INSTANCE

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Public IP is [18.191.9.144](http://18.191.9.144)

NOTE : I'm working on Mac OS and there is no version of MobaXterm that supports Mac OS.  
Hence I've used to launch the instance.



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us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

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Services Resource Groups

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 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	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

Feedback English (US)

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## 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	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-0cd98f931a8fffa8	8	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**

**Feedback** **English (US)**

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Services Resource Groups

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## 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 name:

Description:

Type	Protocol	Port Range	Source	Description
All traffic	All	0 - 65535	Anywhere	0.0.0.0/0, ::/0

[Add Rule](#)

**Warning**

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous Review and Launch

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AWS Services Resource Groups

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

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**⚠ Improve your instances' security. Your security group, launch-wizard-5, is open to the world.**

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

**AMI Details** [Edit AMI](#)

 **Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-0bbe28eb2173f6167**

Free tier eligible

Ubuntu Server 18.04 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.micro	Variable	1	1	EBS only	-	Low to Moderate

**Security Groups** [Edit security groups](#)

Security group name: launch-wizard-5  
Description: launch-wizard-5 created 2020-08-18T19:31:03.487+05:30

Type <i>(i)</i>	Protocol <i>(i)</i>	Port Range <i>(i)</i>	Source <i>(i)</i>	Description <i>(i)</i>
All traffic	All	All	0.0.0.0/0	
All traffic	All	All	::/0	

[Launch](#)

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Choose AMI      2. Choose Instance Type      3. Configure Instance      4. Add Storage

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**⚠** Improve your instances' security. Your security group, launch-wizard-5, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

▼ AMI Details

 <b>Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - an</b>
Ubuntu Server 18.04 LTS (HVM),EBS General Purpose (SSD) Volum
Free tier

▼ Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	Variable	1	1

## ▼ Security Groups

<b>Security group name</b>	launch-wizard-5
<b>Description</b>	launch-wizard-5 created 2020-08-18T19:

Type <small>i</small>	Protocol <small>i</small>	Port Range <small>i</small>	Source <small>i</small>	Description <small>i</small>
All traffic	All	All	0.0.0.0/0	
All traffic	All	All	../0	

[Cancel](#) [Launch Instances](#)

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aws Services Resource Groups

New EC2 Experience Tell us what you think

Launch Instance Connect Actions

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Limits

Downloads — ubuntu@ip-172-31-45-224: ~ — ssh -i Second\_instance.pem ubuntu@ec2-18-191-9-144.us-east-2.c...

```
Last login: Tue Aug 18 18:16:15 on ttys000
[sonaal@Sais-MacBook-Pro ~ % cd Downloads
[sonaal@Sais-MacBook-Pro Downloads % chmod 400 Second_instance.pem
[sonaal@Sais-MacBook-Pro Downloads % ssh -i Second_instance.pem ubuntu@ec2-18-191-9-144.us-east-2.compute.amazonaws.com
The authenticity of host 'ec2-18-191-9-144.us-east-2.compute.amazonaws.com (18.191.9.144)' can't be established.
ECDSA key fingerprint is SHA256:9mTgBwam3+3tv+def52eiXt0J5+s9x0.b0dJTapMmW4.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-18-191-9-144.us-east-2.compute.amazonaws.com,18.191.9.144' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1032-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 System information as of Tue Aug 18 14:12:18 UTC 2020

 System load:  0.0          Processes:      90
 Usage of /:   14.4% of 7.69GB   Users logged in:  0
 Memory usage: 17%
 Swap usage:   0%
 0 packages can be updated.
 0 updates are security updates.

 The programs included with the Ubuntu system are free software;
 the exact distribution terms for each program are described in the
 individual files in /usr/share/doc/*copyright.

 Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
 applicable law.

 To run a command as administrator (user "root"), use "sudo <command>".
 See "man sudo_root" for details.

ubuntu@ip-172-31-45-224:~$
```

Connect to your instance

Connection method  A standalone SSH client [i](#)  
 Session Manager [i](#)  
 EC2 Instance Connect (browser-based SSH connection) [i](#)

To access your instance:

1. Open an SSH client. (find out how to [connect using PuTTY](#))
2. Locate your private key file (Second\_instance.pem). The wizard automatically detects the key you used to launch the instance.
3. Your key must not be publicly viewable for SSH to work. Use this command if needed:  
`chmod 400 Second_instance.pem`
4. Connect to your instance using its Public DNS:  
`ec2-18-191-9-144.us-east-2.compute.amazonaws.com`

Example:

```
ssh -i "Second_instance.pem" ubuntu@ec2-18-191-9-144.us-east-2.compute.amazonaws.com
```

Please note that in most cases the username above will be correct, however please ensure that you read your AMI usage instructions to ensure that the AMI owner has not changed the default AMI username.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

Public DNS (IPv4) ec2-18-191-9-144.us-east-2.compute.amazonaws.com  
IPv4 Public IP 18.191.9.144  
IPv6 IPs -  
Elastic IPs  
Availability zone us-east-2c  
Security groups launch-wizard-5, view inbound rules, view outbound rules  
Scheduled events No scheduled events

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Next we run the following in the terminal :

1. sudo apt-get -y update
2. Sudo apt-get -y install nginx

After that we open the browser and type the Public IP

