

# EC2 Tasks

1) Launch one ec2 using Amazon Linux 2 image and add script in user data to installApache.

**Step 1: Launch an EC2 Instance**

Go to the EC2 Dashboard: In your AWS Management Console, navigate to the EC2 service.

Click on "Launch Instance"

Select the Amazon Linux 2

Choose an Instance Type:

Configure Instance:

Add Storage:

Configure Security Group:

- Add a security group to allow HTTP (port 80) and SSH (port 22) access.
- You can create a new security group with the following rules:
  - SSH: Port 22, source: **0.0.0.0/0** (or your specific IP)

■ HTTP: Port 80, source: 0.0.0.0/0

Add User Data:

- In the Configure Instance step, look for the User Data section.
- Paste the following script into the User Data text box to install Apache upon instance launch:

```
bash
Copy code
#!/bin/bash
# Update and install Apache
yum update -y
yum install -y httpd

# Start Apache service
systemctl start httpd

# Enable Apache to start on boot
systemctl enable httpd

# Create a simple test HTML page
echo "<html><body><h1>Welcome to Apache on Amazon Linux
2!</h1></body></html>" > /var/www/html/index.html
```

9. Review and Launch:

- Review all your settings and click Launch.

- Select or create a key pair for SSH access.

## Step 2: Access Your Instance

- Once the instance is running, access it using SSH (make sure you have your key pair).

**bash**

Copy code

```
ssh -i /path/to/your-key.pem ec2-user@<Public-IP>
```

- After logging in, you can check if Apache is running with:

**bash**

```
sudo systemctl status httpd
```

The screenshot shows the AWS Lambda 'Create Function' wizard. The current step is 'Function Settings'. The configuration includes:

- Name and tags**: Name is set to 'Apacheserver'.
- Software Image (AMI)**: Provided by Red Hat, Inc. ami-0c15e602d3d6c6c4a
- Virtual server type (instance type)**: t3.micro
- Firewall (security group)**: A dropdown menu is open, showing 'Create new security group' and 'Choose existing security group' options.
- Memory**: Set to 128 MB.
- Timeout**: Set to 10 seconds.
- Runtime**: Node.js 14.x.
- Environment variables**: An empty table.
- Code**: A dropdown menu is open, showing 'Upload a file' and 'Choose a GitHub repository' options.
- Role**: A dropdown menu is open, showing 'Create new role' and 'Choose existing role' options.
- Tags**: An empty table.

**Summary** section shows 1 instance.

## ▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE

Browse more AMIs Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Red Hat Enterprise Linux 9 (HVM), SSD Volume Type

Free tier eligible

## ▼ Summary

Number of instances | [Info](#)

1

### Software Image (AMI)

Provided by Red Hat, Inc.  
ami-0c15e602d3d6c6c4a

Virtual server type (instance type)  
t3.micro

Firewall (security group)

[Cancel](#)

[Launch](#)

[Preview](#)

## ▼ Instance type [Info](#) | [Get advice](#)

### Instance type

t3.micro  
Family: t3 2 vCPU 1 GiB Memory Current generation: true  
On-Demand Ubuntu Pro base pricing: 0.0139 USD per Hour  
On-Demand SUSE base pricing: 0.0104 USD per Hour  
On-Demand Linux base pricing: 0.0104 USD per Hour  
On-Demand RHEL base pricing: 0.0392 USD per Hour  
On-Demand Windows base pricing: 0.0196 USD per Hour

Additional costs apply for AMIs with pre-installed software

All generations

[Compare instance types](#)

## ▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

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## ▼ Summary

Number of instances | [Info](#)

1

### Software Image (AMI)

Provided by Red Hat, Inc.  
ami-0c15e602d3d6c6c4a

Virtual server type (instance type)  
t3.micro

Firewall (security group)

[Cancel](#)

[Launch instance](#)

[Preview code](#)

EC2 > Instances > Launch an instance

## ▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

### Key pair name - required

apache

[Create new key pair](#)

## ▼ Network settings [Info](#)

### VPC - required

vpc-0d01126ec14aaaf405  
172.31.0.0/16

(default)

[Create new VPC](#)

### Subnet

No preference

[Create new subnet](#)

## ▼ Summary

Number of instances | [Info](#)

1

### Software Image (AMI)

Provided by Red Hat, Inc.  
ami-0c15e602d3d6c6c4a

Virtual server type (instance type)  
t3.micro

Firewall (security group)

[Cancel](#)

[Launch instance](#)

[Preview code](#)

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32°C Haze 13:05 08/05/2025

The screenshot shows the AWS EC2 'Launch an instance' wizard. In the 'Inbound Security Group Rules' section, a rule is being configured:

- Type:** Custom TCP
- Protocol:** TCP
- Port range:** 22
- Source type:** Anywhere
- Source:** 0.0.0.0/0
- Description - optional:** 80

A warning message in a callout box states: "⚠️ 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." Below this is a button labeled "Add security group rule".

In the summary section, it shows 1 instance, the software image (AMI) provided by Red Hat, Inc. (ami-0c15e602d3d6c6c4a), the virtual server type (t3.micro), and the firewall (security group). Buttons for "Cancel", "Launch instance", and "Preview code" are present.

```

root@ip-172-31-23-241:~#
[1] root@ip-172-31-23-241 ~ % ssh -i "apache.pem" ec2-user@ec2-54-226-114-61.compute-1.amazonaws.com
The authenticity of host 'ec2-54-226-114-61.compute-1.amazonaws.com (54.226.114.61)' can't be established.
ED25519 key fingerprint is SHA256:ip7JGV/w4ljjX3+MiHBI/R60minqnTyRBEadYS6z2eY.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-54-226-114-61.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
Register this system with Red Hat Insights: rhc connect

Example:
# rhc connect --activation-key <key> --organization <org>

The rhc client and Red Hat Insights will enable analytics and additional
management capabilities on your system.
View your connected systems at https://console.redhat.com/insights

You can learn more about how to register your system
using rhc at https://red.ht/registration
[2] root@ip-172-31-23-241 ~ % sudo su -
[root@ip-172-31-23-241 ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
     Active: active (running) since Thu 2025-05-08 07:40:45 UTC; 2min 33s ago
       Docs: man:httpd.service(8)
   Main PID: 47900 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
      Tasks: 177 (limit: 4093)
     Memory: 38.4M
        CPU: 170ms
       CGroup: /system.slice/httpd.service
               └─47900 /usr/sbin/httpd -DFOREGROUND
                  ├─47901 /usr/sbin/httpd -DFOREGROUND
                  ├─47903 /usr/sbin/httpd -DFOREGROUND
                  ├─47904 /usr/sbin/httpd -DFOREGROUND
                  └─47905 /usr/sbin/httpd -DFOREGROUND

May 08 07:40:45 ip-172-31-23-241.ec2.internal systemd[1]: Starting The Apache HTTP Server...
May 08 07:40:45 ip-172-31-23-241.ec2.internal systemd[1]: Started The Apache HTTP Server.
May 08 07:40:45 ip-172-31-23-241.ec2.internal httpd[47900]: Server configured, listening on: port 80
[root@ip-172-31-23-241 ~]#

```



## Apache is running on Amazon Linux 2

2) Launch one ec2 using Ubuntu image and add script in user data to install Nginx.

- Click "Launch Instance".

2. Choose an Ubuntu AMI

3. Choose Instance Type

4. Add User Data Script

bash

Copy code

```
#!/bin/bash
```

```
# Update package list
```

```
apt update -y
```

```
# Install Nginx
```

```
apt install nginx -y
```

```
# Start and enable Nginx
```

```
systemctl start nginx
```

```
systemctl enable nginx
```

```
# Optional: Add a basic index.html page
```

```
echo "<h1>Welcome to Nginx on Ubuntu EC2</h1>" >
```

```
/var/www/html/index.html
```

6. Key Pair

- Select an existing key pair or create a new one for SSH access.

7. Launch the Instance You should see:

"Welcome to Nginx on Ubuntu EC2"

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

aws | Jira | Console Home | Instance details | OpenAI | Meet - Daily Syncup Call - 12 | Conditional Statements in Bash Script | Untitled document - Google Docs | GitHub

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EC2 > Instances > Launch an instance

**Launch an instance** [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags** [Info](#)

Name  Add additional tags

**Application and OS Images (Amazon Machine Image)** [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

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aws | Jira | Console Home | Instance details | OpenAI | Meet - Daily Syncup Call - 12 | Conditional Statements in Bash Script | Untitled document - Google Docs | GitHub

Search [Alt+S] | United States (N. Virginia) | lalithaganta

EC2 > Instances > Launch an instance

**Application and OS Images (Amazon Machine Image)** [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE [Browse more AMIs](#) Including AMIs from AWS, Marketplace and the Community

**Amazon Machine Image (AMI)**

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type [Free tier eligible](#)

ami-0945f9db4782764d4 (64-bit/x86) / ami-0c4e700770f58e21a (64-bit/x64)

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**Instance type** [Info](#) | [Get advice](#)

**Instance type**

t3.micro

Family: t3 2 vCPU 1 GiB Memory Current generation: true  
On-Demand Ubuntu Pro base pricing: 0.0139 USD per Hour  
On-Demand SUSE base pricing: 0.0104 USD per Hour  
On-Demand Linux base pricing: 0.0104 USD per Hour  
On-Demand RHEL base pricing: 0.0392 USD per Hour  
On-Demand Windows base pricing: 0.0196 USD per Hour

All generations

[Compare instance types](#)

**Additional costs apply for AMIs with pre-installed software**

**Key pair (login)** [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair

**Software Image (AMI)**  
Canonical, Ubuntu, 24.04, amd6... [read more](#)  
ami-084568db4383264d4

**Virtual server type (instance type)**  
t3.micro

**Firewall (security group)**

[Cancel](#) [Launch instance](#) [Preview code](#)

**Key pair name - required**

apache

[Create new key pair](#)

**Network settings** [Info](#)

**Network** [Info](#)  
vpc-0d1126ec14aaf405

**Subnet** [Info](#)  
No preference (Default subnet in any availability zone)

**Auto-assign public IP** [Info](#)  
Enable

Additional charges apply when outside of free tier allowance

**Firewall (security groups)** [Info](#)

**Software Image (AMI)**  
Canonical, Ubuntu, 24.04, amd6... [read more](#)  
ami-084568db4383264d4

**Virtual server type (instance type)**  
t3.micro

**Firewall (security group)**

[Cancel](#) [Launch instance](#) [Preview code](#)

EC2 > Instances > Launch an instance

User data - optional | Info  
Upload a file with your user data or enter it in the field.

```
#!/bin/bash
apt-get update -y
apt-get install -y nginx
systemctl start nginx
systemctl enable nginx
echo "<h1>Nginx is running on Ubuntu</h1>" >
/var/www/html/index.html
```

▼ Summary

Number of instances | Info  
1

Software Image (AMI)  
Canonical, Ubuntu, 24.04, amd64...[read more](#)  
ami-084568db4383264d4

Virtual server type (instance type)  
t3.micro

Firewall (security group)

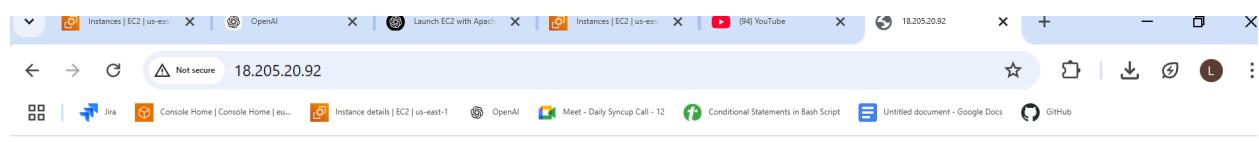
```
individual files in /usr/share/doc/"/copyright.

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-172-31-28-85:~$ sudo su -
root@ip-172-31-28-85:~# systemctl start nginx
root@ip-172-31-28-85:~# systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-05-08 07:59:11 UTC; 3min 37s ago
     Docs: man:nginx(8)
Main PID: 1545 (nginx)
   Tasks: 3 (limit: 1077)
  Memory: 2.4M (peak: 2.5M)
    CPU: 13ms
   CGroup: /system.slice/nginx.service
           └─1545 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             ├─1546 "nginx: worker process"
             └─1547 "nginx: worker process"

May 08 07:59:11 ip-172-31-28-85 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...
May 08 07:59:11 ip-172-31-28-85 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
root@ip-172-31-28-85:~# |
```



## **Nginx is running on Ubuntu**

3) Launch one windows server and install tomcat in windows.

1. Go to the EC2 Dashboard → Click "Launch Instance".

## 2. Choose AMI:

### 3. Choose Instance Type:

## Installs Amazon Corretto 11 (Java)

**Sets JAVA\_HOME and updates PATH**

**Downloads and extracts Tomcat 10**

- Starts Tomcat

## 5. Security Group Rules

- Add RDP (port 3389) to connect via Remote Desktop.
- Add HTTP (port 8080) for Tomcat access.

## 6. Key Pair

- Create/select a key pair to retrieve your admin password later.

## 7. Launch Instance

The screenshot shows the AWS EC2 'Launch an instance' wizard. At the top, there's a blue header bar with a message: 'It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices'. Below this are two buttons: 'Do not show me this message again' and 'Take a walkthrough'. The main form is divided into sections:

- Name and tags**: A section where you can enter a name for the instance (e.g., 'tomcat') and add additional tags.
- Application and OS Images (Amazon Machine Image)**: A section describing what an AMI is and providing a search bar to find specific AMIs.
- Summary**: A summary section showing the number of instances (1), the selected software image (Microsoft Windows Server 2025), the virtual server type (t3.micro), and the firewall/security group settings.

At the bottom of the page, there are links for CloudShell, Feedback, and various legal and preference links.

Screenshot of the AWS EC2 Instances Launch wizard.

The left panel shows the "Quick Start" tab selected, displaying recent AMIs: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE. A search bar at the top says "Search our full catalog including 1000s of application and OS images".

The right panel displays the "Summary" section with the following details:

- Number of instances:** 1
- Software Image (AMI):** Microsoft Windows Server 2025 ...[read more](#)  
ami-09cb80360d5069de4
- Virtual server type (instance type):** t3.micro
- Firewall (security group):** (not specified)

Buttons at the bottom include "Cancel", "Launch instance", and "Preview code".

Screenshot of the AWS EC2 Instances Launch wizard, showing additional configuration steps.

The left panel includes "Key pair (login)" and "Network settings" sections. In the "Key pair (login)" section, "windows" is selected as the key pair name, and a note states: "For Windows instances, you use a key pair to decrypt the administrator password. You then use the decrypted password to connect to your instance." A "Create new key pair" button is available.

The right panel displays the "Summary" section with the following details:

- Number of instances:** 1
- Software Image (AMI):** Microsoft Windows Server 2025 ...[read more](#)  
ami-09cb80360d5069de4
- Virtual server type (instance type):** t3.micro
- Firewall (security group):** (not specified)

Buttons at the bottom include "Cancel", "Launch instance", and "Preview code".

aws [Alt+S] Search United States (N. Virginia) lalithaganta

EC2 > Instances > i-01c0c93ab9cac938d > Get Windows password

Windows

Private key

Either upload your private key file or copy and paste its contents into the field below.

Private key contents - optional

```
-----BEGIN RSA PRIVATE KEY-----MIIEogIBAAKCAQEAvwsx9V4A7wXSxI/gLcCqYz5ZULqvwt0TN9YvcuWDNOuLPcqz9qTl7FsP7x2IndWMU5YRZUgod5uSh5qK1SN6o3yE+alWy2kdENDxS0BThCK8M28MAqlQAUki8qOIWhkhsUMkgv7Q3rl/8DMPeiulUuC+XtbkhXhixnmvqZxtE3UR0OGXYm2mpLYO9m54SRkYEbq3zsq+eBSz+GER3omJbiivqgdVjeDDU5YL9bjpY6dvMaMyLsj3e89yZxudvcNPBbj4BbirmluW825rkjbmop7mFnLhMDqAG6TiCnzPBkMnuChocBkt+DYgsp3oFZF EhkoROiEWbzF/VSnHwlDAQABAoBABVUYRdDO3joOx+vWIB8AxeFqjRvt/pChhp6Bltjkzq135NdSFoKR/bgGG89aREqrzzApCVhbt8w6go5
```

Cancel Decrypt password

Windows Security [Alt+S] United States (N. Virginia)

Enter your credentials

These credentials will be used to connect to ec2-100-27-205-215.compute-1.amazonaws.com.

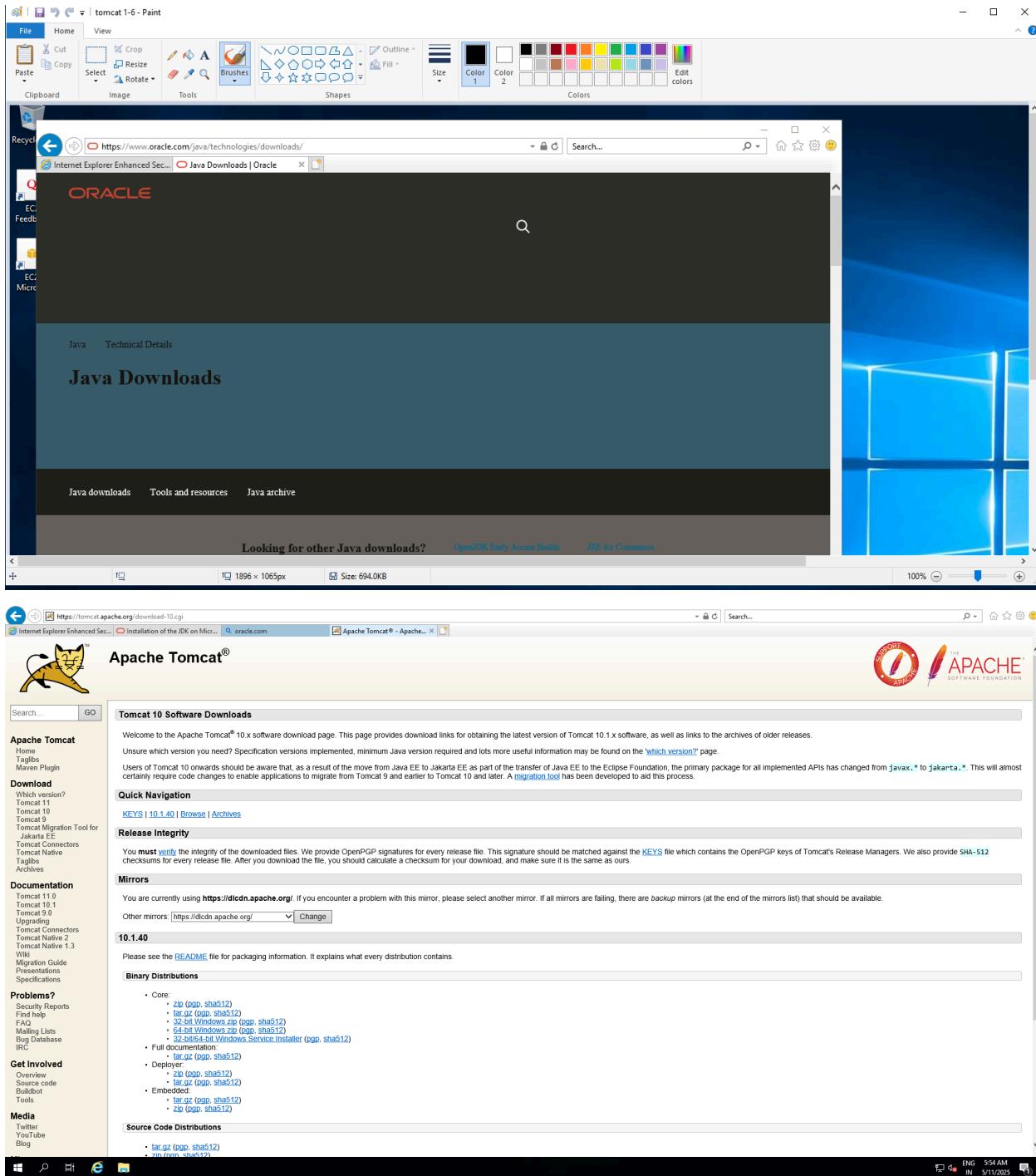
Administrator

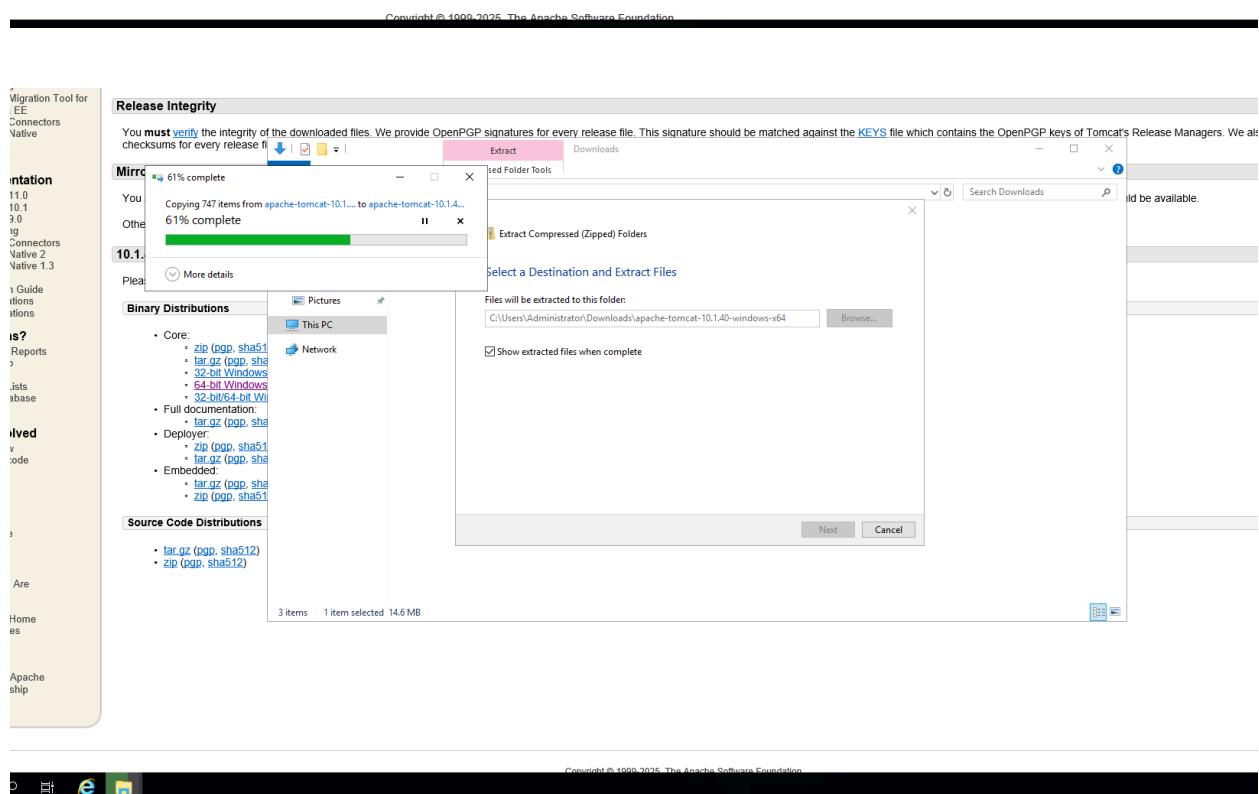
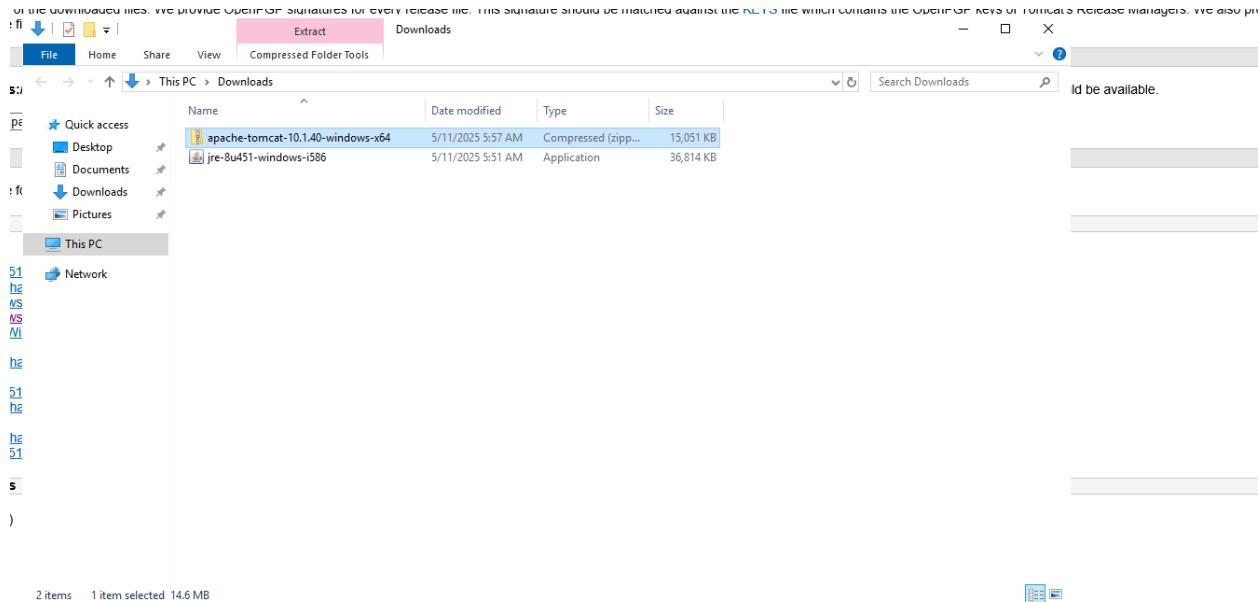
LAPTOP-LPTR344H \Administrator

Remember me

[More choices](#)

OK Cancel





java.com/en/download/

download through those services.

## Help Resources

- Why is Java 8 recommended
- What is Java
- Remove older versions
- Windows FAQ
- Security
- Support
- Other help

- When your Java installation completes, if you are using webstart, you **may need to restart your browser** (close all browser windows and re-open).

```
RELEASE-NOTES.txt - Notepad
File Edit Format View Help
=====
Licensed to the Apache Software Foundation (ASF) under one or more
contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at

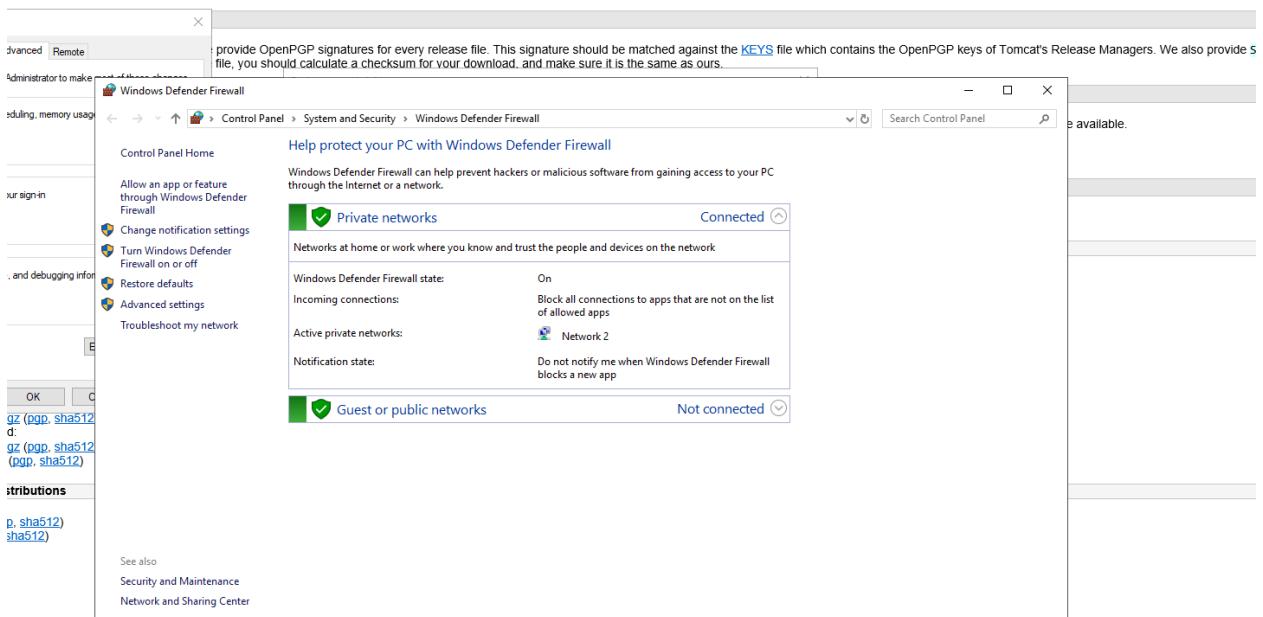
    http://www.apache.org/licenses/LICENSE-2.0

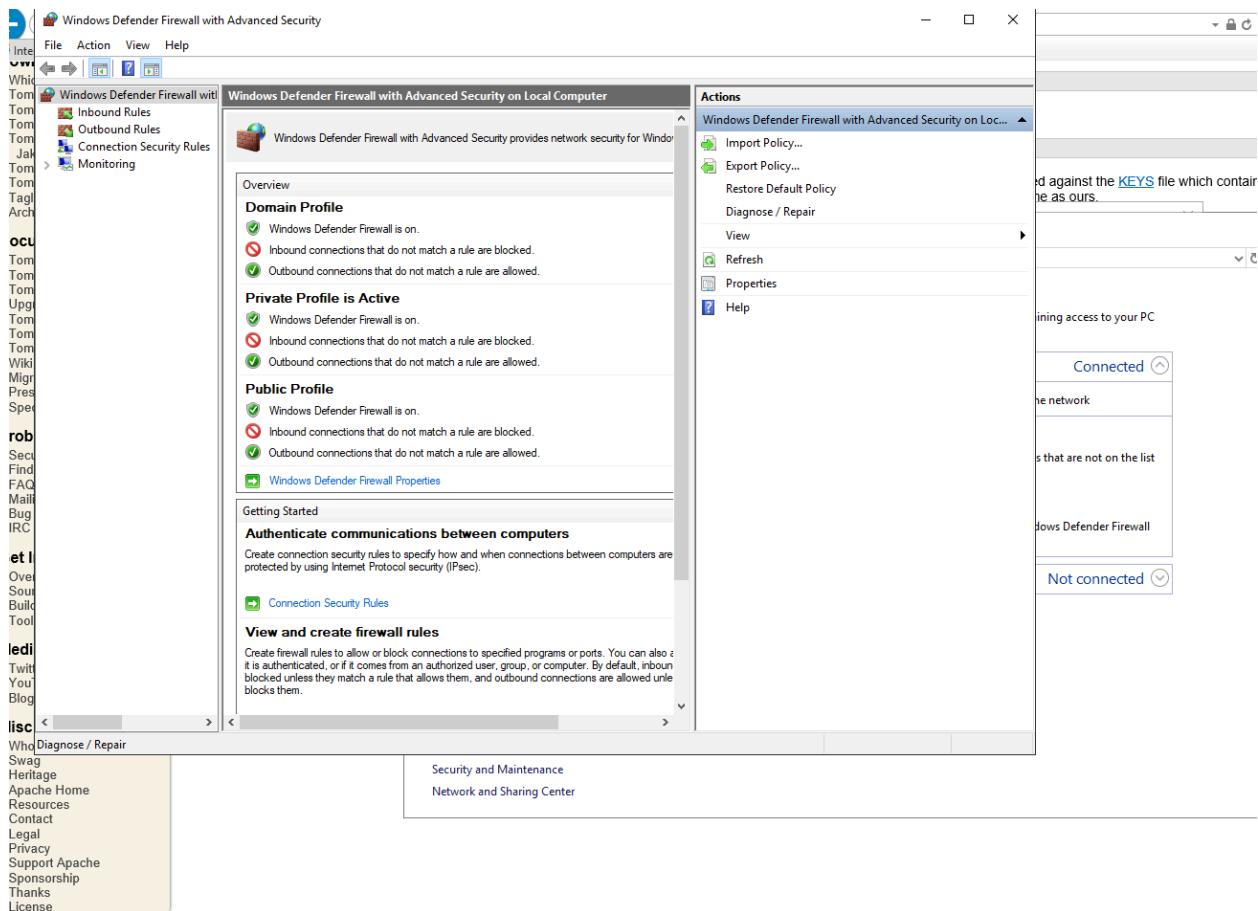
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
=====

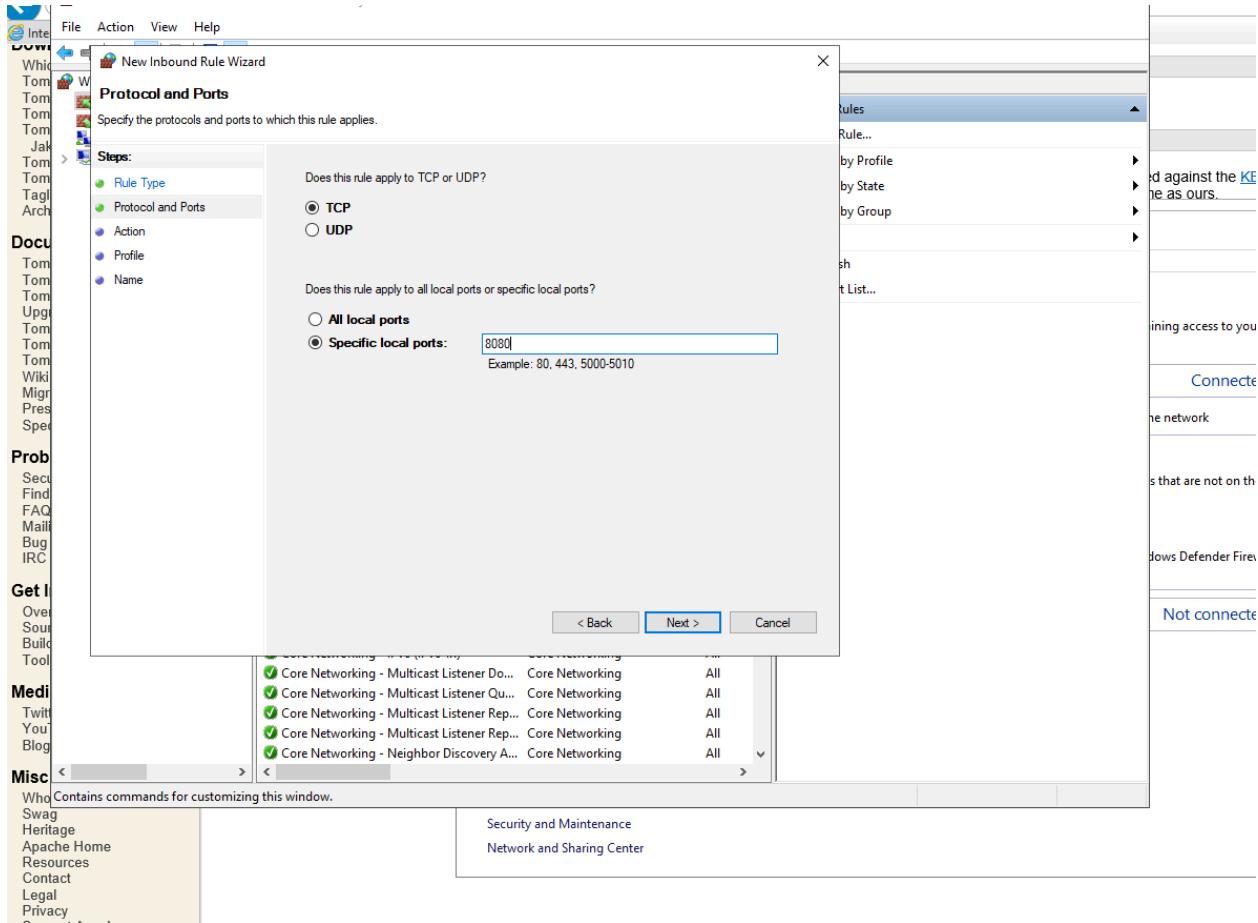
Apache Tomcat Version 10.1.40
Release Notes

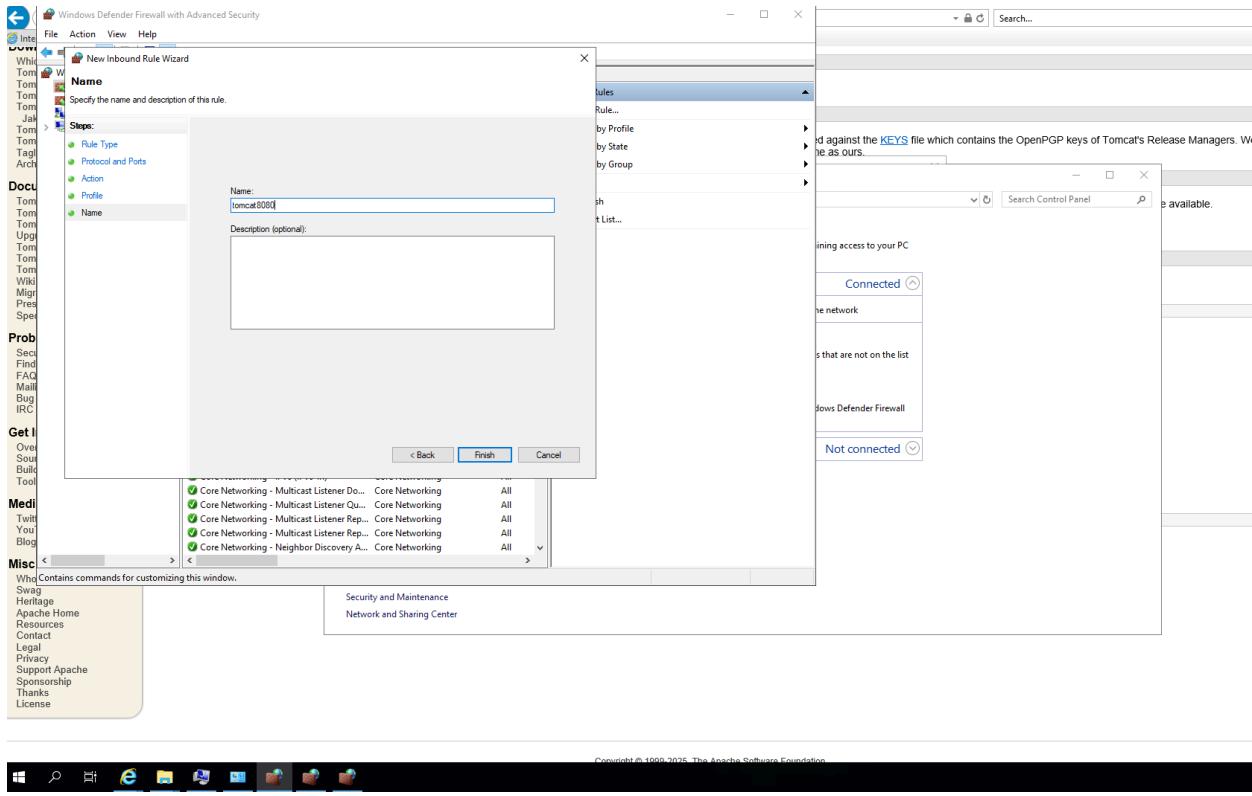
=====
CONTENTS:
=====

* Dependency Changes
* API Stability
* Bundled APIs
* Web application reloading and static fields in shared libraries
* Security manager URLs
* Symlinking static resources
* Viewing the Tomcat Change Log
* Cryptographic software notice
* When all else fails
```









Home Documentation Configuration Examples Wiki Mailing Lists Find Help

## Apache Tomcat/9.0.104

If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

- [Security Considerations How-To](#)
- [Manager Application How-To](#)
- [Clustering/Session Replication How-To](#)

Server Status Manager App Host Manager

### Developer Quick Start

<a href="#">Tomcat Setup</a>	<a href="#">Realms &amp; AAA</a>	<a href="#">Examples</a>	<a href="#">Servlet Specifications</a>
<a href="#">First Web Application</a>	<a href="#">JDBC DataSources</a>		<a href="#">Tomcat Versions</a>

**Managing Tomcat**  
For security, access to the [manager webapp](#) is

**Documentation**  
[Tomcat 9.0 Documentation](#)

**Getting Help**  
[FAQ and Mailing Lists](#)

**4) Take snapshot of the instance created in Task 1.**

**1. Identify the Root Volume**

- Go to the EC2 Dashboard.
- Click on Instances in the left-hand menu.
- Find and select the instance you launched in Task 1.
- Scroll down to the Storage section.

**2. Create Snapshot**

- Go to the Elastic Block Store → Volumes in the EC2 Dashboard.
- Find the volume using the Volume ID.
- Select the volume → Click Actions → Create Snapshot.

**3. Fill Snapshot Details**

- Name: e.g., **AmazonLinux2-Apache-Snapshot**
- Description: e.g., **Snapshot of EC2 instance with Apache installed**

Click Create Snapshot.

**4. Monitor Snapshot Creation**

- Go to Snapshots in the EC2 sidebar.
- Wait for the status to show "completed".

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;\$case=tags:true%5C,client:false;\$regex... [Alt+S]

aws | Jira | Console Home | Instance details | OpenAI | Meet - Daily Syncup Call - 12 | Conditional Statements in Bash Script | Untitled document - Google Docs | GitHub

Search [Alt+S] Instances (2/9) Info Last updated 1 minute ago Connect Instance state Actions Launch instances

EC2 Instances (2/9) Find Instance by attribute or tag (case-sensitive) All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm sta
apache2	i-043cd41c0bc12ba81	Stopped	t2.micro	-	<a href="#">View alarm</a>
my nginx	i-0d88686eaa8ddc8c4	Stopped	t2.micro	-	<a href="#">View alarm</a>
Nginx	i-0221908bcd05e7d43	Stopped	t3.micro	-	<a href="#">View alarm</a>
my project	i-0124762e144b1b5a9	Stopped	t3.micro	-	<a href="#">View alarm</a>
Lalitha_test	i-024ac8395206f89d3	Stopped	t2.micro	-	<a href="#">View alarm</a>
<input checked="" type="checkbox"/> Apacheserver	i-0625a519ff36650a0	Running	t3.micro	3/3 checks passed	<a href="#">View alarm</a>

2 instances selected

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aws | Search [Alt+S] Instances (2/9) Info Last updated 3 minutes ago Connect Instance state Actions Launch instances

EC2 Instances (2/9) Find Instance by attribute or tag (case-sensitive) All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm sta
apache2	i-043cd41c0bc12ba81	Stopped	t2.micro	-	<a href="#">View alarm</a>
my nginx	i-0d88686eaa8ddc8c4	Stopped	t2.micro	-	<a href="#">View alarm</a>
Nginx	i-0221908bcd05e7d43	Stopped	t3.micro	-	<a href="#">View alarm</a>
my project	i-0124762e144b1b5a9	Stopped	t3.micro	-	<a href="#">View alarm</a>
Lalitha_test	i-024ac8395206f89d3	Stopped	t2.micro	-	<a href="#">View alarm</a>
<input checked="" type="checkbox"/> Apacheserver	i-0625a519ff36650a0	Running	t3.micro	3/3 checks passed	<a href="#">View alarm</a>

2 instances selected

Connect View details Manage instance state Instance settings Networking Security Image and templates Monitor and troubleshoot View alarm

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main area displays a table of instances with columns for Name, Instance ID, Instance state, and Instance type. Two instances are selected: 'Apacheserver' (Instance ID i-0625a519ff36650a0) and 'Lalitha\_test' (Instance ID i-024ac8395206f89d3). A context menu is open over the selected instances, with the 'Image and templates' option highlighted. Other options in the menu include Connect, View details, Manage instance state, Instance settings, Networking, Security, Create image, Create template from instance, and Launch more like this.

The screenshot shows the 'Create image' wizard. The current step is 'Create image'. It has the following fields:

- Instance ID:** i-0625a519ff36650a0 (Apacheserver)
- Image name:** mysnapshots
- Image description - optional:** snapshots
- Reboot instance:**  When selected, Amazon EC2 reboots the instance so that data is at rest when snapshots of the attached volumes are taken. This ensures data consistency.

The screenshot shows the AWS EC2 AMIs page. The left sidebar has sections for Instances and Images, with 'AMIs' selected. The main content area displays 'Amazon Machine Images (AMIs) (1)'. A table lists one item: 'mysnapshots' (AMI ID: ami-056a72a4883a85499, Source: 664418957525/mysnapshots). There are buttons for Recycle Bin, EC2 Image Builder, Actions, and Launch instance from AMI.

This screenshot is identical to the one above, showing the same AMI listing and interface. The table includes columns for Source (664418957525/mysnapshots), Owner (664418957525), Visibility (Private), Status (Pending), and Creation date (2025/05/09).

## 5) Assign password less authentication for ec2 created on Task 2

### Option 1: Already Using AWS Key Pair (Default EC2 Login)

By default, when you launched the Ubuntu EC2 instance, AWS required you to associate a key pair (e.g., `my-key.pem`) – that's already passwordless SSH using private key

```
ssh -i ~/Downloads/my-key.pem ubuntu@<EC2-Public-IP>
```

No further steps are needed if you use the .pem file to log in.

## Option 2: Set Up Your Own Public Key for Passwordless SSH

If you want to add your own custom SSH public key, here's how:

1. Generate a Key Pair (on your local machine)

bash

Copy code

```
ssh-keygen -t rsa -b 4096 -f ~/.ssh/myubuntu_key
```

2. SSH into the Ubuntu EC2 using existing AWS key

bash

Copy code

```
ssh -i ~/Downloads/my-key.pem ubuntu@<EC2-Public-IP>
```

3. Add Your Public Key to the EC2 Instance

```
mkdir -p ~/.ssh
```

```
echo "<paste-your-public-key-content-here>" >>
```

```
~/.ssh/authorized_keys
```

```
chmod 600 ~/.ssh/authorized_keys
```

```
chmod 700 ~/.ssh
```

You can copy the public key using:

Now you can connect without password like this:

```
ssh -i ~/.ssh/myubuntu_key ubuntu@<EC2-Public-IP>
```

```

MINGW64/c/Users/HP/Downloads - 
HP@LAPTOP-LPTR344H MINGW64 ~/Downloads (master)
$ ssh -i "apache.pem" ubuntu@ec2-13-217-197-4.compute-1.amazonaws.com
The authenticity of host 'ec2-13-217-197-4.compute-1.amazonaws.com (13.217.197.4)' can't be established.
ED25519 key fingerprint is SHA256:FcdbBPz23HvQhjIXmasDElUXMoAQIQLhtQULuqXwMo.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:24: ec2-18-205-20-92.compute-1.amazonaws.com
Are you sure you want to continue connecting (yes/no/[fingerprint]?)? yes
warning: Permanently added 'ec2-13-217-197-4.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1024-aws x86_64)

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

system information as of Sat May 10 12:26:08 UTC 2025

System load: 0.11 Temperature: -273.1 C
Usage of /: 28.8% of 6.71GB Processes: 114
Memory usage: 22% Users logged in: 0
Swap usage: 0% IPv4 address for ens5: 172.31.28.85

Expanded Security Maintenance for Applications is not enabled.

86 updates can be applied immediately.
44 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Thu May  8 08:02:11 2025 from 103.143.169.218
ubuntu@ip-172-31-28-85:~$ ls
ubuntu@ip-172-31-28-85:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-28-85:~$ cd /home/ubuntu/
ubuntu@ip-172-31-28-85:~$ cd /
bin/          etc/          lib64/         opt/          sbin/         sys/
bin usr-is-merged/ home/        lost+found/  proc/        sbin usr-is-merged/ tmp/
boot/         lib/          media/        root/        snap/         usr/
dev/          lib usr-is-merged/ mnt/        run/         srv/          var/
ubuntu@ip-172-31-28-85:~$ cd /
bin/          etc/          lib64/         opt/          sbin/         sys/
bin usr-is-merged/ home/        lost+found/  proc/        sbin usr-is-merged/ tmp/
boot/         lib/          media/        root/        snap/         usr/
dev/          lib usr-is-merged/ mnt/        run/         srv/          var/
ubuntu@ip-172-31-28-85:~$ cd /
bin/          etc/          lib64/         opt/          sbin/         sys/
bin usr-is-merged/ home/        lost+found/  proc/        sbin usr-is-merged/ tmp/
boot/         lib/          media/        root/        snap/         usr/
dev/          lib usr-is-merged/ mnt/        run/         srv/          var/
ubuntu@ip-172-31-28-85:~$ cd /home^C
ubuntu@ip-172-31-28-85:~$ cd /home/ubuntu/
ubuntu@ip-172-31-28-85:~$ ls
ubuntu@ip-172-31-28-85:~$ sudo su -
root@ip-172-31-28-85:~# ls
snap
root@ip-172-31-28-85:~# ls
snap
root@ip-172-31-28-85:~# cat snap
cat: snap: Is a directory
root@ip-172-31-28-85:~# cd .ssh/
root@ip-172-31-28-85:~/ssh# ls
authorized_keys
root@ip-172-31-28-85:~/ssh# vi authorized_keys
root@ip-172-31-28-85:~/ssh# exit
logout
ubuntu@ip-172-31-28-85:~$ exit
logout
Connection to ec2-13-217-197-4.compute-1.amazonaws.com closed.

```



```

bin/          etc/          lib64/         opt/          sbin/         sys/
bin usr-is-merged/ home/        lost+found/  proc/        sbin usr-is-merged/ tmp/
boot/         lib/          media/        root/        snap/         usr/
dev/          lib usr-is-merged/ mnt/        run/         srv/          var/
ubuntu@ip-172-31-28-85:~$ cd /
bin/          etc/          lib64/         opt/          sbin/         sys/
bin usr-is-merged/ home/        lost+found/  proc/        sbin usr-is-merged/ tmp/
boot/         lib/          media/        root/        snap/         usr/
dev/          lib usr-is-merged/ mnt/        run/         srv/          var/
ubuntu@ip-172-31-28-85:~$ cd /
bin/          etc/          lib64/         opt/          sbin/         sys/
bin usr-is-merged/ home/        lost+found/  proc/        sbin usr-is-merged/ tmp/
boot/         lib/          media/        root/        snap/         usr/
dev/          lib usr-is-merged/ mnt/        run/         srv/          var/
ubuntu@ip-172-31-28-85:~$ cd /home^C
ubuntu@ip-172-31-28-85:~$ cd /home/ubuntu/
ubuntu@ip-172-31-28-85:~$ ls
ubuntu@ip-172-31-28-85:~$ sudo su -
root@ip-172-31-28-85:~# ls
snap
root@ip-172-31-28-85:~# ls
snap
root@ip-172-31-28-85:~# cat snap
cat: snap: Is a directory
root@ip-172-31-28-85:~# cd .ssh/
root@ip-172-31-28-85:~/ssh# ls
authorized_keys
root@ip-172-31-28-85:~/ssh# vi authorized_keys
root@ip-172-31-28-85:~/ssh# exit
logout
ubuntu@ip-172-31-28-85:~$ exit
logout
Connection to ec2-13-217-197-4.compute-1.amazonaws.com closed.

```

```

root@ip-172-31-28-85:~/.ssh# vi authorized_keys
root@ip-172-31-28-85:~/.ssh# exit
logout
ubuntu@ip-172-31-28-85:~$ exit
logout
Connection to ec2-13-217-197-4.compute-1.amazonaws.com closed.

HP@LAPTOP-LPTR344H MINGW64 ~/Downloads (master)
$ ssh ^C

HP@LAPTOP-LPTR344H MINGW64 ~/Downloads (master)
$ ssh ubuntu@ip-172-31-28-85
ssh: Could not resolve hostname ip-172-31-28-85: Name or service not known

HP@LAPTOP-LPTR344H MINGW64 ~/Downloads (master)
$ ssh ubuntu@13-217-197-4
ssh: could not resolve hostname 13-217-197-4: Name or service not known

HP@LAPTOP-LPTR344H MINGW64 ~/Downloads (master)
$ ssh ubuntu@13.217.197.4
The authenticity of host '13.217.197.4' (13.217.197.4) can't be established.
ED25519 key fingerprint is SHA256:FcdbPDz3hvQj1XMasDElUXMoQ1qILhtQLuqxwMo.
This host key is known by the following other names/addresses:
 ~/.ssh/known_hosts:24: ec2-18-205-20-92.compute-1.amazonaws.com
 ~/.ssh/known_hosts:27: ec2-13-217-197-4.compute-1.amazonaws.com
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '13.217.197.4' (ED25519) to the list of known hosts.
ubuntu@13.217.197.4: Permission denied (publickey).

HP@LAPTOP-LPTR344H MINGW64 ~/Downloads (master)
$ ssh -i "apache.pem" ubuntu@ec2-13-217-197-4.compute-1.amazonaws.com
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1024-aws x86_64)

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

System information as of Sat May 10 12:38:39 UTC 2025

 System load: 0.0 Temperature: -273.1 C
 Usage of /: 33.7% of 6.71GB Processes: 114
 Memory usage: 29% Users logged in: 0

```



Type here to search      File Home Office Help Search Start Task View File Explorer Recycle Bin Taskbar Network Power

```

Expanded Security Maintenance for Applications is not enabled.

42 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

*** System restart required ***
Last login: sat May 10 12:26:09 2025 from 103.143.169.218
ubuntu@ip-172-31-28-85:~$ sudo su -
root@ip-172-31-28-85:~# cd ssh
-bash: cd: ssh: No such file or directory
root@ip-172-31-28-85:~# cd .ssh
root@ip-172-31-28-85:~/.ssh# ls
authorized_keys
root@ip-172-31-28-85:~/.ssh# chmod 600 authorized_keys
root@ip-172-31-28-85:~/.ssh# exit
logout
ubuntu@ip-172-31-28-85:~$ exit
logout
Connection to ec2-13-217-197-4.compute-1.amazonaws.com closed.

```

```
sh-rsa AAAAB3NzaC1yc2EAAAQABAAQgQDAjthJckhjUYj0eTmE8dGfLruD0g] /3tG/E2gUCLaA386RSbwjGHPQffq00AaG6Xgv
DNhxg44N9F1DHpiMxG0IMnnw+3YDjfPk2abnkYkP14/Ea0ebkfoAvTpXGQ0WkZig9nTvsU+1kwAeaw8j1Zwd/CkH/ftsxUmcNVBPd
+eh+ERTUwz59aukiIxeStYux0Rkh23VuiIkmd90i343K6sE6JCRD9N4Dj12vYiizSTOyR18sgvJsrzA9aJxwVEHoDL3UR+ozz9bg
ELXXvV9idH+ZGcW5sAQUTAjA5uprJ7hY5I68IIisyt9b4spt+9ISrkKvL+3Amy7nxVCnp8ua2jZIdbifm6WLE8LDfu40AMWTWP2zER
Ur1mu1Rdkfx738cfRNFOjs+CitqDUH2R2ErkEK51ie7BukZZRNDl5tfFp06bSXGjkRXMKcGvopgeFtkzXTV5B+WXjCvCwpQzkelje3L
1qAEaTwh5D2VNSewTndTMObCZ8uzVs= User123@DESKTOP-G7T3NP[
```

```
sh-rsa AAAAB3NzaC1yc2EAAAQABAAQc0z88DAuPRSwxsAM1Zj3aZACvbLIE7305ZjtUjsyZqTzr/Dst+7s7E5YeoMqrB/r4
J+LhTwL4YGDxzeB17UaAGvK6KHV4Gj948w3hanuoyBBSEcljd8NcSq6GFWh30hggIHdQARgsZ+qdEymXipXhUze0LswrUEWmzKsx4
VVhp2jbk1Zq2nFqaMZMuNlu19JmpyRbvsz9hAI6vvusgjxSRuQNXIg+2wqN3rSV0BWR3YNz9wsldTAAv1mqnuX5wie0CMNzr7tWwku
QKC0ccKZmcKJy/8FriSx+HhdRiAbGzngtunsMA0f1CFKbMYIRSuWvhlocwb4i7rmn2j WAS
```

```
ED25519 key fingerprint is SHA256:gAq7dZ2g7IOEHksF6tiitQhtJxw8pD3DqYtJOUDgVuY.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:27: ec2-13-60-218-109.eu-north-1.compute.amazonaws.com
  ~/.ssh/known_hosts:30: ec2-56-228-18-245.eu-north-1.compute.amazonaws.com
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '56.228.18.245' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1024-aws x86_64)
```

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

```
System information as of Thu May 1 13:04:50 UTC 2025
```

System load: 0.0	Temperature: -273.1 C
Usage of /: 30.5% of 6.71GB	Processes: 112
Memory usage: 23%	Users logged in: 0
Swap usage: 0%	IPv4 address for ens5: 172.31.29.92

```
Expanded Security Maintenance for Applications is not enabled.
```

```
77 updates can be applied immediately.
44 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
```

```
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
```

6) Launch any ec2 using spot purchasing option.

Click "Launch Instance".

Name and Tags

Give your instance a name like: **spot-instance-test**.

Choose an AMI

**Choose Instance Type**

**Configure Purchasing Option (Spot)**

**Configure Other Settings**

**Add storage, tags, and select a security group that allows at least:**

- **SSH (port 22) or RDP (port 3389) depending on OS**
- **HTTP (port 80) if it's a web server**
- **Choose Key Pair**

**Select or create a key pair for SSH/RDP access.**

**Launch**

The screenshot shows the 'Launch an instance' wizard on the AWS EC2 console. The top navigation bar includes the AWS logo, search bar, and region selection (United States (N. Virginia)). The main steps are 'EC2 > Instances > Launch an instance'. The current step is 'Name and tags' (Info). A 'Name' field contains 'spotinstance' with a 'Add additional tags' link. Below this is the 'Application and OS Images (Amazon Machine Image)' section, which is collapsed. To the right, the 'Summary' section is expanded, showing 1 instance, the selected AMI ('Amazon Linux 2023 AMI 2023.7.2...'), the instance type ('t2.micro'), and the security group ('Firewall (security group)'). At the bottom right are 'Cancel', 'Launch instance' (in orange), and 'Preview code' buttons. The footer includes links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences, along with system status icons.

S | Search [Alt+S] | United States (N. Virginia) | Lalit

EC2 > Instances > Launch an instance

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Recents | My AMIs | **Quick Start**

Amazon Linux | macOS | Ubuntu | Windows | Red Hat | SUSE | [Browse more AMIs](#)

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI | Free tier eligible

CloudShell | Feedback | © 2025, Amazon Web Services, Inc. or its affiliates. | Privacy | Terms | Cookie

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.7.2... [read more](#)

ami-0f88e80871fd81e91

Virtual server type (instance type)

t2.micro

Firewall (security group)

Cancel **Launch instance** [Preview code](#)

S | Search [Alt+S] | United States (N. Vir

EC2 > Instances > Launch an instance

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

SPOT | [Create new key pair](#)

▼ Network settings [Info](#)

Network [Info](#)

vpc-0d1126ec14aaf405

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Edit

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.7.2

ami-0f88e80871fd81e91

Virtual server type (instance type)

t2.micro

Firewall (security group)

Cancel **Launch instance** [Preview code](#)

S Jira C Instance details | EC2 | us-east-1 O OpenAI M Meet - Daily Syncup Call - 12 Conditional Statements in Bash Script U Untitled document - Google Docs G GitHub aaws

aws Search [Alt+S] United States (N. Virginia) lalithaga

EC2 > Instances > Launch an instance

None

Capacity Blocks  
Launch instances for your active capacity blocks

Spot instances  
Request Spot Instances at the Spot price, capped at the On-Demand price

**Discard Spot instance options**

**Spot Instance Options** | Info  
Specify Spot Instance Options such as Maximum Price, Request type, expiration date and interruption behavior

**Maximum price** | Info  
 No maximum price  
Request Spot Instances at the Spot price, capped at the On-Demand price

Set your maximum price (per instance/hour)

**Request type** | Info  
One-time

**Valid to** | Info  
 No request expiry date  
The default value is no expiry date

**Summary**

Number of instances | Info  
1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.7.2... [read more](#)  
ami-0f88e80871fd81e91

Virtual server type (instance type)  
t2.micro

Firewall (security group)

Cancel **Launch instance** [Preview code](#)

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aws Search [Alt+S] United States (N. Virginia) lalithaga

EC2 > Instances > Launch an instance

**Success**  
Successfully initiated launch of instance (i-0f992c654d1fe29e9)

**Launch log**

**Next Steps**

What would you like to do next with this instance, for example "create alarm" or "create backup"

1 2 3 4 5 6

**Create billing and free tier usage alerts**  
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage.

**Connect to your instance**  
Once your instance is running, log into it from your local computer.  
[Connect to instance](#)

**Connect an RDS database**  
Configure the connection between an EC2 instance and a database to allow traffic flow between them.

**Create EBS snapshot policy**  
Create a policy that automates the creation, retention, and deletion of EBS snapshots.

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**Instances (2/11) Info**

Last updated less than a minute ago

Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm sta
testinstance	i-0770515000403143	Stopped	t2.micro	-	View alarm
apache2	i-043cd41c0bc12ba81	Stopped	t2.micro	-	View alarm
my nginx	i-0d88686eaa8ddc8c4	Stopped	t2.micro	-	View alarm
Nginx	i-0221908bcd05e7d43	Stopped	t3.micro	-	View alarm
<input checked="" type="checkbox"/> spotinstance	i-0f992c654d1fe29e9	Running	t2.micro	Initializing	View alarm
my project	i-0124762e144b1b5a9	Stopped	t3.micro	-	View alarm
Lalitha test	i-024ac8395206f89d3	Stopped	t2.micro	-	View alarm

2 instances selected

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## 7) Enable Termination policy on ec2 created in Task 2.

**Instances (1/11) Info**

Last updated 1 minute ago

Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm sta
Nginx	i-0221908bcd05e7d43	Stopped	t3.micro	-	View alarm
spotinstance	i-0f992c654d1fe29e9	Running	t2.micro	-	View alarm
my project	i-0124762e144b1b5a9	Stopped	t3.micro	-	View alarm
Lalitha_test	i-024ac8395206f89d3	Stopped	t2.micro	-	View alarm
Apacheserver	i-0625a519ff36650a0	Stopped	t3.micro	-	View alarm
<input checked="" type="checkbox"/> MY_INSTANCE	i-05025d9add685a4d5	Running	t2.micro	-	View alarm

i-05025d9add685a4d5 (MY\_INSTANCE)

The screenshot shows the AWS EC2 Instances page with 11 instances listed. A context menu is open over the instance named 'MY\_INSTANCE'. The menu options include: Attach to Auto Scaling Group, Change termination protection, Change stop protection, Change shutdown behavior, and Change auto-recovery behavior. The 'Change auto-recovery behavior' option is highlighted.

The screenshot shows the AWS EC2 Instances page with 11 instances listed. A modal dialog box titled 'Change termination (deletion) protection' is open. It contains a message about preventing accidental deletion, a section for selecting the instance ID (i-05025d9add685a4d5), and a 'Termination protection' section where the 'Enable' checkbox is checked. At the bottom are 'Cancel' and 'Save' buttons.

## 8) Launch one ec2 using Aws CLI .

1. Install AWS CLI: [Install guide](#)

Configure AWS CLI (with your credentials) :

Copy code

`aws configure`

2. Have the following ready:

- AMI ID (e.g., Amazon Linux 2:  
**ami-0c02fb55956c7d316** in many regions)
- Key pair name (e.g., **my-key**)
- Security group ID (e.g., **sg-0123456789abcdef0**)
- Subnet ID (optional, for specific VPC use)

CLI Command to Launch EC2 Instance

bash

Copy code

```
aws ec2 run-instances \
--image-id ami-0c02fb55956c7d316 \
--instance-type t2.micro \
--key-name my-key \
--security-group-ids sg-0123456789abcdef0 \
--subnet-id subnet-0123456789abcdef0 \
--tag-specifications
' ResourceType=instance, Tags=[ {Key=Name, Value=CLI-Launched-Instance} ]' \
--count 1
```

Developer tools AI resources

AWS Command Line Interface Setup

Welcome to the AWS Command Line Interface Setup Wizard

The Setup Wizard will install AWS Command Line Interface on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

the Re  
n was r  
t the ins  
CLI vers  
  
ownload  
AWS  
<https://s3.amazonaws.com/aws-cli/AWSCLI64PY3.msi>  
[]  
AWS CLI MSI installer for Windows (32-bit):  
<https://s3.amazonaws.com/aws-cli/AWSCLI1Z2DV2.msi>

Back Next Cancel

s    **Developer tools**    **AI resources**     AWS Command Line Interface Setup     *Search in this guide*

Ready to install AWS Command Line Interface



Click **Install** to begin the installation. Click **Back** to review or change any of your installation settings. Click **Cancel** to exit the wizard.

The latest version was released recently. Check the latest version of the AWS CLI version.

Download

- AWS CLI MSI installer for Windows (64-bit):  
<https://s3.amazonaws.com/aws-cli/AWSCLI64PY3.msi>  







s    **Developer tools**    **AI resources**     AWS Command Line Interface Setup     *Search in this guide*

Installing AWS Command Line Interface



Please wait while the Setup Wizard installs AWS Command Line Interface.

Status: Generating script operations for action:

The latest version was released recently. Check the latest version of the AWS CLI version.

Download

- AWS CLI MSI installer for Windows (64-bit):  
<https://s3.amazonaws.com/aws-cli/AWSCLI64PY3.msi>  


aws | Search [Alt+S] Global | lalithaganta

IAM > Security credentials

## Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles
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Root access management New

### My security credentials Root user Info

The root user has access to all AWS resources in this account, and we recommend following best practices. To learn more about the types of AWS credentials and how they're used, see AWS Security Credentials in AWS General Reference

**You don't have MFA assigned**  
As a security best practice, we recommend you assign MFA.

**Assign MFA**

#### Account details

Actions ▾

Account name	lalithaganta	Email address	lalithaganta2003@gmail.com
AWS account ID	664418957525	Canonical user ID	bbd101a659e223d0a81bbd53cb8bf56ebb01724b371248fcf 397ecf12c8d1b22

aws | Search [Alt+S] Global | lalithaganta

IAM > Security credentials > Create access key

Step 1

Alternatives to root user access keys

Step 2

Retrieve access key

### Alternatives to root user access keys Info

**Root user access keys are not recommended**  
We don't recommend that you create root user access keys. Because you can't specify the root user in a permissions policy, you can't limit its permissions, which is a best practice.  
Instead, use alternatives such as an IAM role or a user in IAM Identity Center, which provide temporary rather than long-term credentials. [Learn More](#)  
If your use case requires an access key, create an IAM user with an access key and apply least privilege permissions for that user. [Learn More](#)

**Continue to create access key?**

I understand creating a root access key is not a best practice, but I still want to create one.

**Create access key**

aws | Search [Alt+S] Global | lalithaganta

IAM > Security credentials

## Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

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### CloudFront key pairs (0)

Actions ▾ Upload Create CloudFront key pair

No CloudFront key pairs

Create CloudFront key pair

### X.509 Sianina certificates (0)

Actions ▾ Upload Create X.509 certificate

```
MINGW64:/c/Users/HP/Downloads
$ aws --version
aws-cli/1.40.12 Python/3.12.6 windows/10 botocore/1.38.13

HP01LAPTOP-LPTR344H MINGW64 ~/Downloads (master)
$ aws configure
AWS Access Key ID [None]: AKTAZVMTUXDKUEUZQ2NV
AWS Secret Access Key [None]: saIFXxc4LOBJVuCgm5ZpZ6/dvQ27Z4Z7vUYjf1tA
Default region name [None]: eu-north-1
Default output format [None]: json

HP01LAPTOP-LPTR344H MINGW64 ~/Downloads (master)
$ aws configure list
  Name            Value          Type    Location
  --              --           None    None
profile          <not set>      None    None
access_key       ****Q2NV**** shared-credentials-file
secret_key       ****fitA**** shared-credentials-file
region          eu-north-1    config-file  ~/.aws/config
```