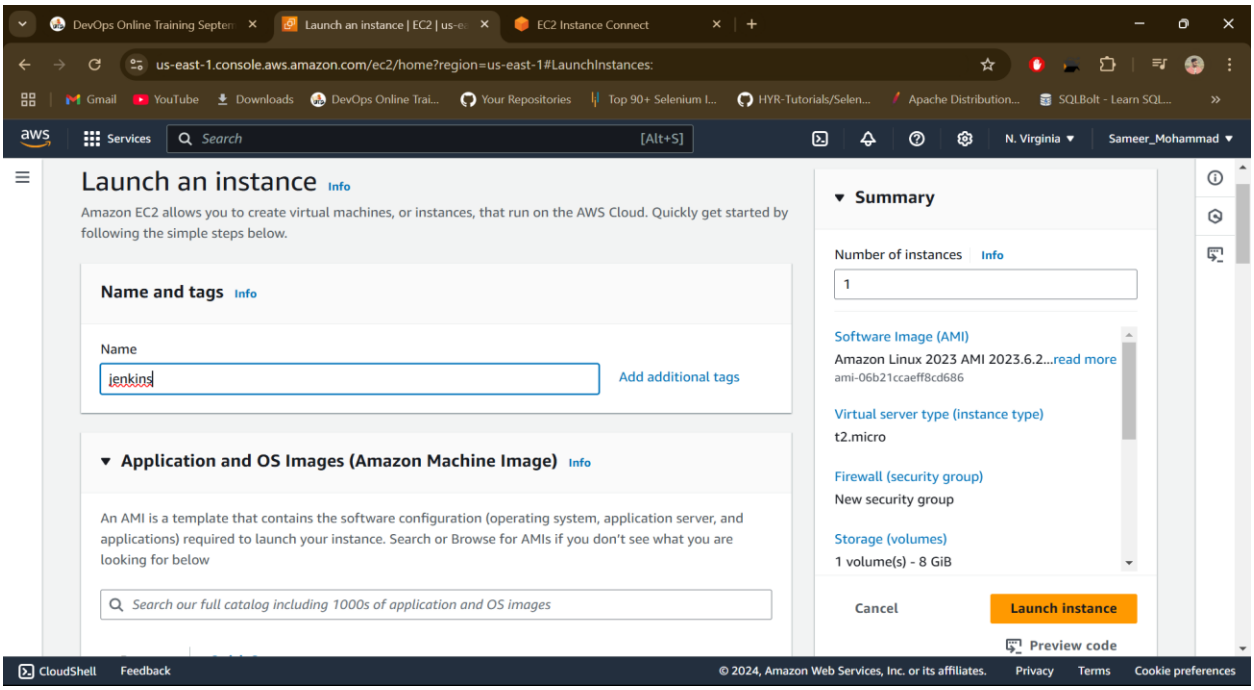
DevOps Online Training Septem
Launch an instance | EC2 | us-e
EC2 Instance Connect
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
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Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
jenkins
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
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-06b21ccaeff8cd686
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Preview code
CloudShell
Feedback
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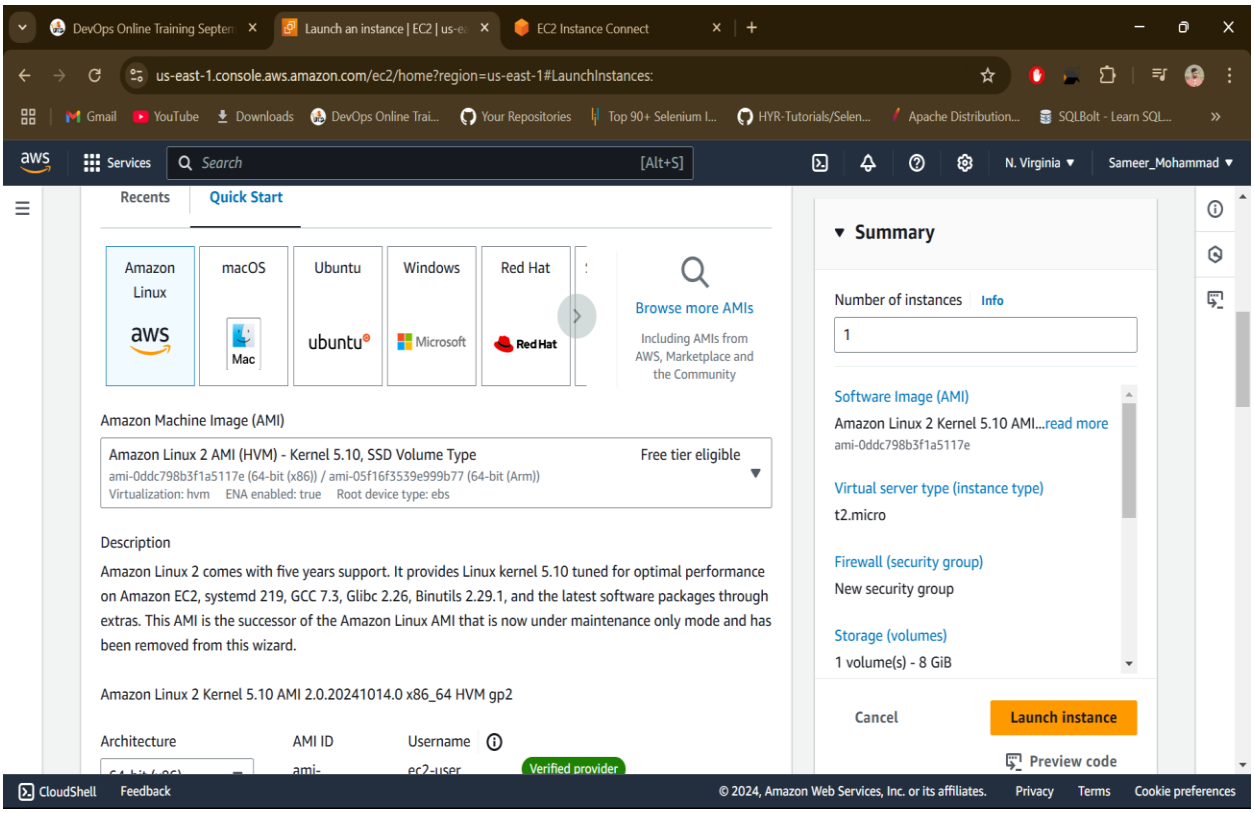
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Recents
Quick Start
Amazon Linux
macOS
Mac
Ubuntu
Windows
Red Hat
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type
Free tier eligible
ami-0ddc798b3f1a5117e (64-bit (x86)) / ami-05f16f3539e999b77 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs
Description
Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 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 now under maintenance only mode and has been removed from this wizard.
Amazon Linux 2 Kernel 5.10 AMI 2.0.20241014.0 x86_64 HVM gp2
Architecture
AMI ID
Username
ec2-user
Verified provider
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0ddc798b3f1a5117e
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Preview code
CloudShell
Feedback
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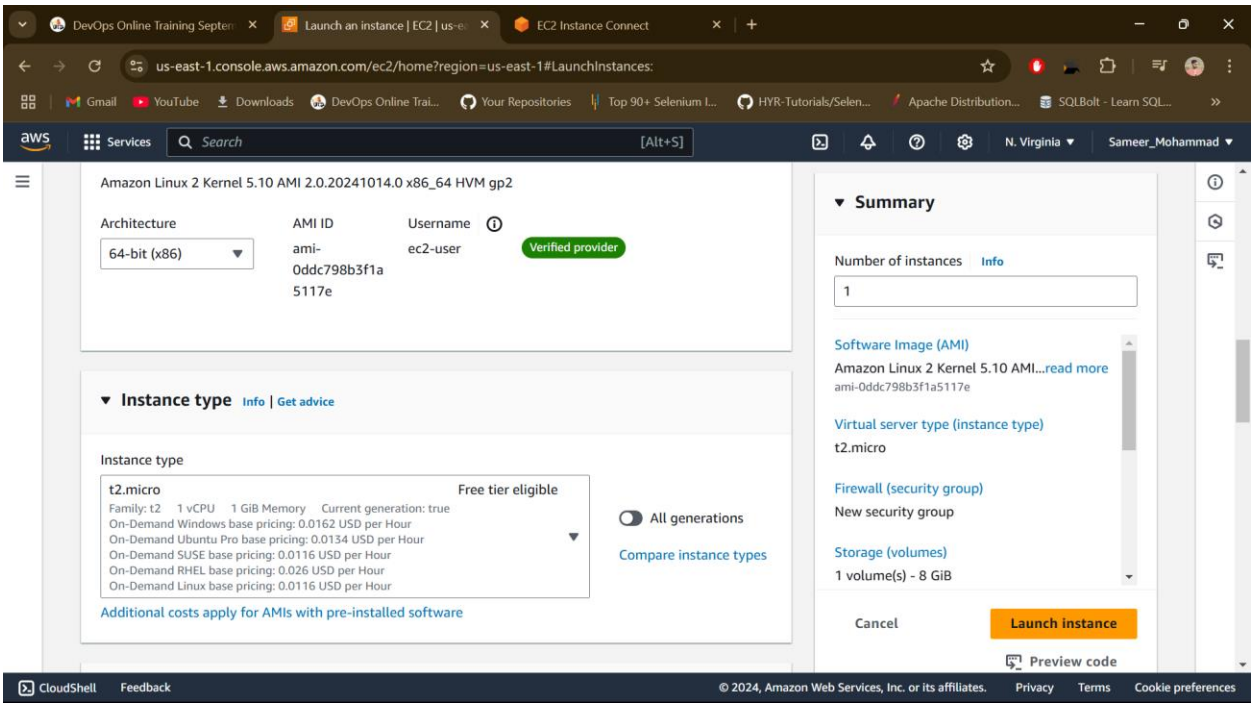
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Amazon Linux 2 Kernel 5.10 AMI 2.0.20241014.0 x86_64 HVM gp2
Architecture
64-bit (x86)
AMI ID
ami-0ddc798b3f1a5117e
Username
ec2-user
Verified provider
Instance type Info | Get advice
Instance type
t2.micro
Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0134 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.026 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour
All generations
Compare instance types
Additional costs apply for AMIs with pre-installed software
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0ddc798b3f1a5117e
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Preview code
CloudShell
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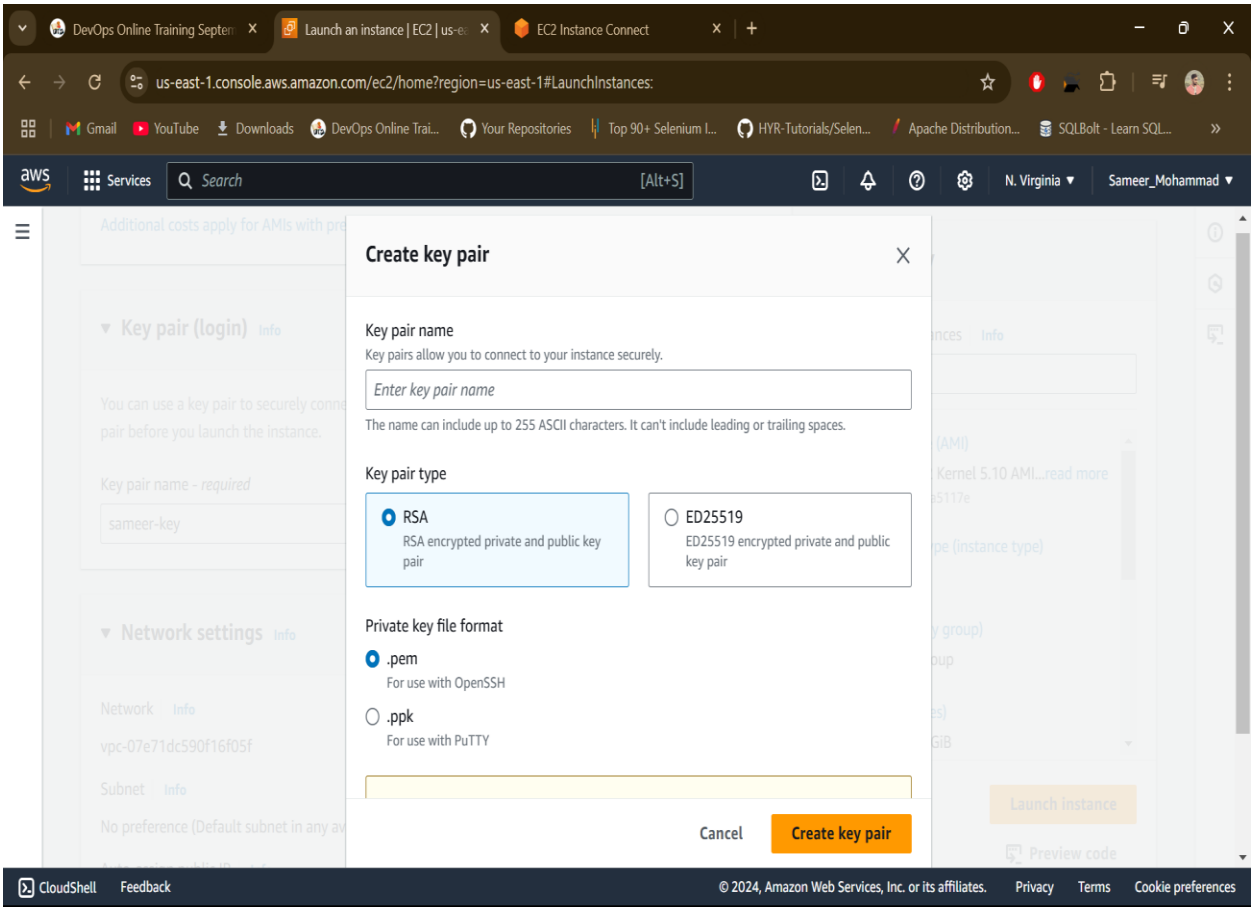
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Create key pair
Key pair name
Key pairs allow you to connect to your instance securely.
Enter key pair name
The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.
Key pair type
RSA
RSA encrypted private and public key pair
ED25519
ED25519 encrypted private and public key pair
Private key file format
.pem
For use with OpenSSH
.ppk
For use with PuTTY
Cancel
Create key pair
CloudShell
Feedback
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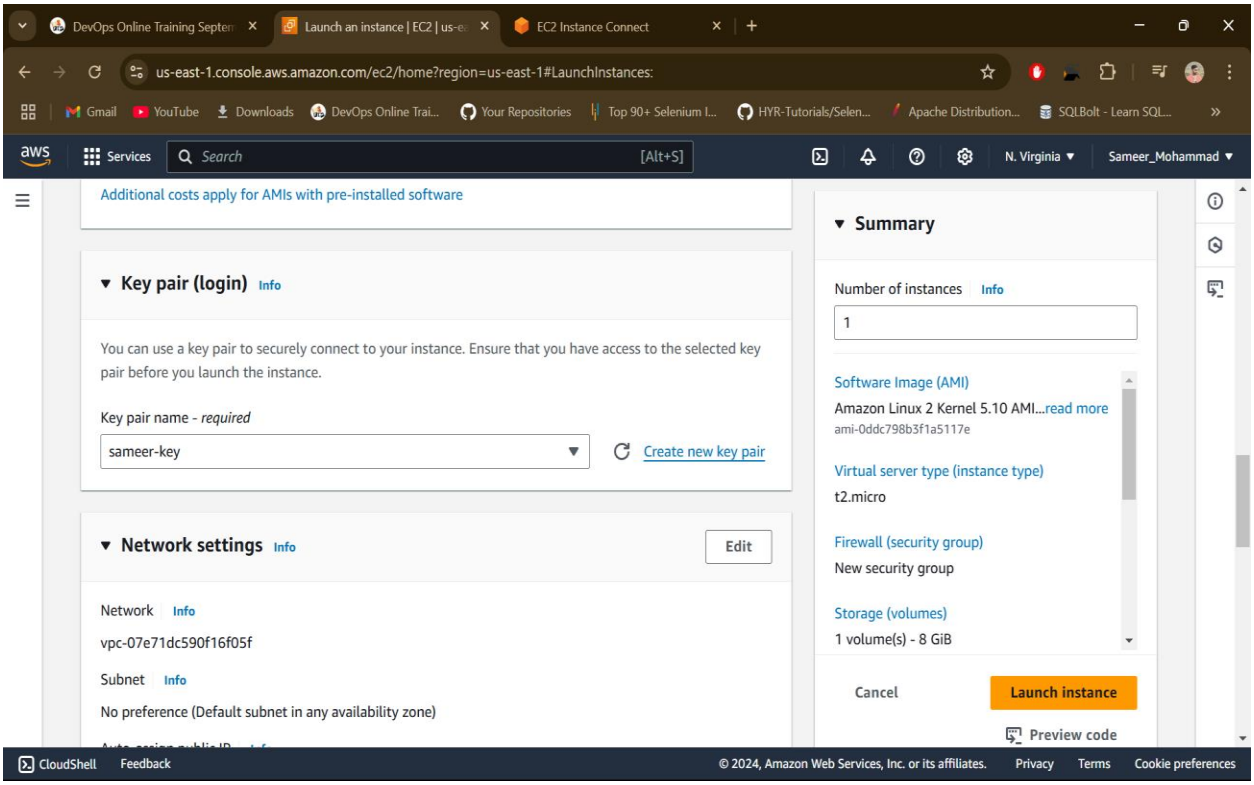
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Additional costs apply for AMIs with pre-installed software
Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name - required
sameer-key
Create new key pair
Network settings Info
Edit
Network Info
vpc-07e71dc590f16f05f
Subnet Info
No preference (Default subnet in any availability zone)
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0ddc798b3f1a5117e
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Preview code
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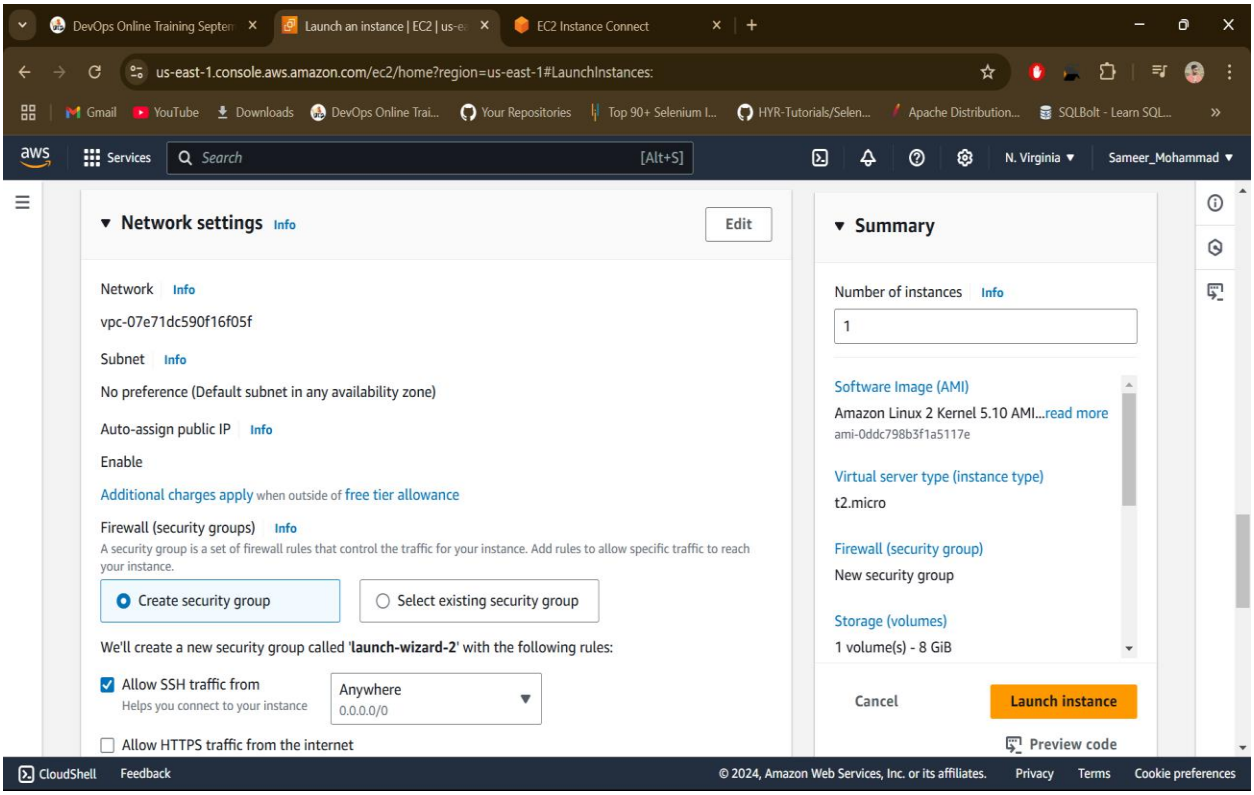
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Launch an instance | EC2 | us-e
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Network settings Info
Edit
Network Info
vpc-07e71dc590f16f05f
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Create security group
Select existing security group
We'll create a new security group called 'launch-wizard-2' with the following rules:
Allow SSH traffic from
Helps you connect to your instance
Anywhere
0.0.0.0/0
Allow HTTPS traffic from the internet
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0ddc798b3f1a5117e
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Preview code
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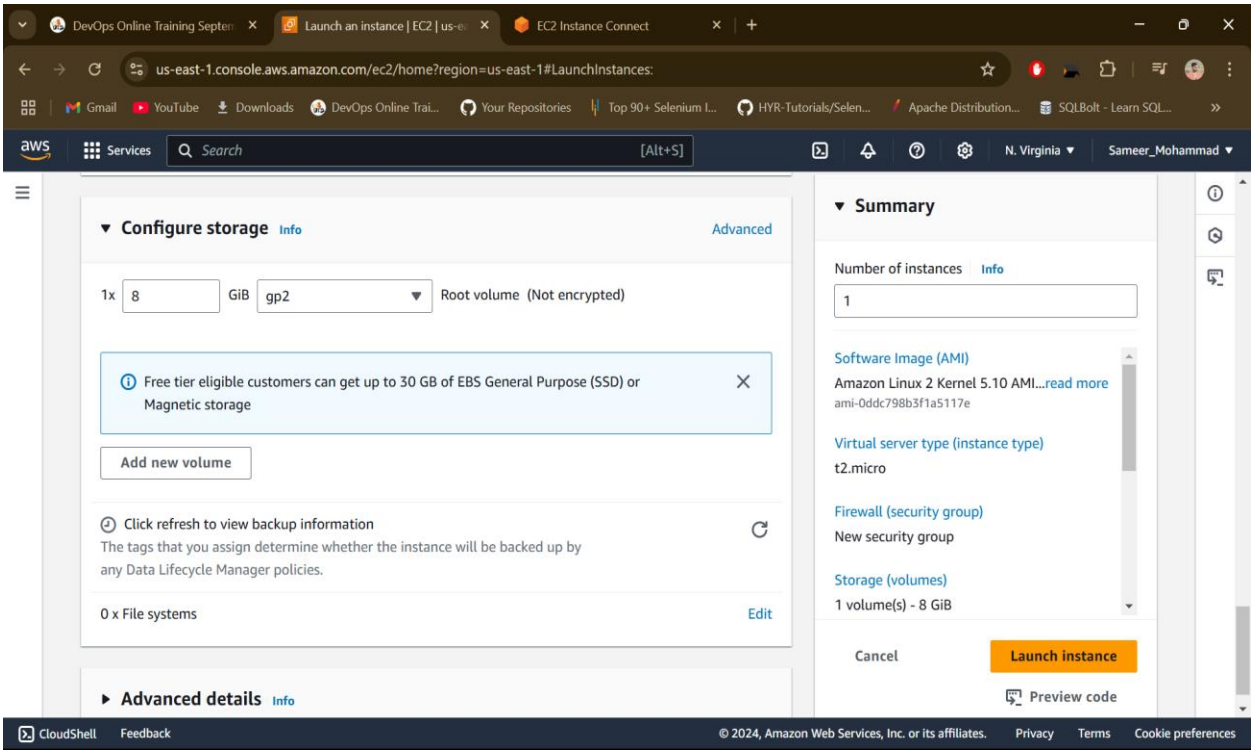
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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
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SQLBolt - Learn SQL...
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Configure storage Info
Advanced
1x
8
GiB
gp2
Root volume (Not encrypted)
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Add new volume
Click refresh to view backup information
The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.
0 x File systems
Edit
Advanced details Info
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0ddc798b3f1a5117e
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
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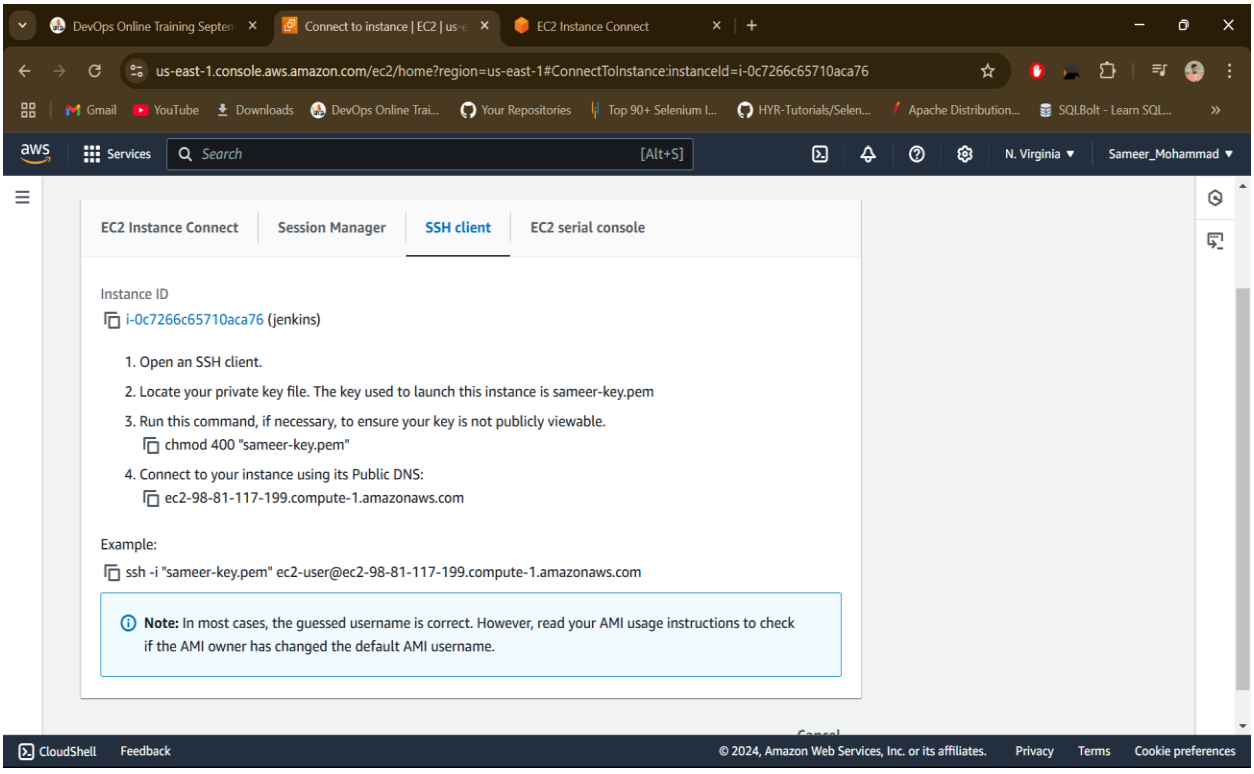
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Connect to instance | EC2 | us-e
EC2 Instance Connect
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-0c7266c65710aca76
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N. Virginia
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EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0c7266c65710aca76 (jenkins)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is sameer-key.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 "sameer-key.pem"
4. Connect to your instance using its Public DNS:
ec2-98-81-117-199.compute-1.amazonaws.com
Example:
ssh -i "sameer-key.pem" ec2-user@ec2-98-81-117-199.compute-1.amazonaws.com
Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
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```
ec2-user@ip-172-31-17-170:~
Microsoft Windows [Version 10.0.22631.4391]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sameer>cd desktop/devops

C:\Users\sameer\Desktop\Devops>
C:\Users\sameer\Desktop\Devops>ssh -i "sameer-key.pem" ec2-user@ec2-98-81-117-199.compute-1.amazonaws.com
The authenticity of host 'ec2-98-81-117-199.compute-1.amazonaws.com (98.81.117.199)' can't be established.
ED25519 key fingerprint is SHA256:sLAbCMsWne2gjOhsd4ftM6bj68trEBYOsrpw/fM6wQo.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-98-81-117-199.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2
  ~~  \_#####\
  ~~     \###|       AL2 End of Life is 2025-06-30.
  ~~       \#/ ___
   ~~       V~' '->
    ~~~         /    A newer version of Amazon Linux is available!
      ~~._.   _/
         _/ _/       Amazon Linux 2023, GA and supported until 2028-03-15.
       _/m/'           https://aws.amazon.com/linux/amazon-linux-2023/

9 package(s) needed for security, out of 12 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-17-170 ~]$
```

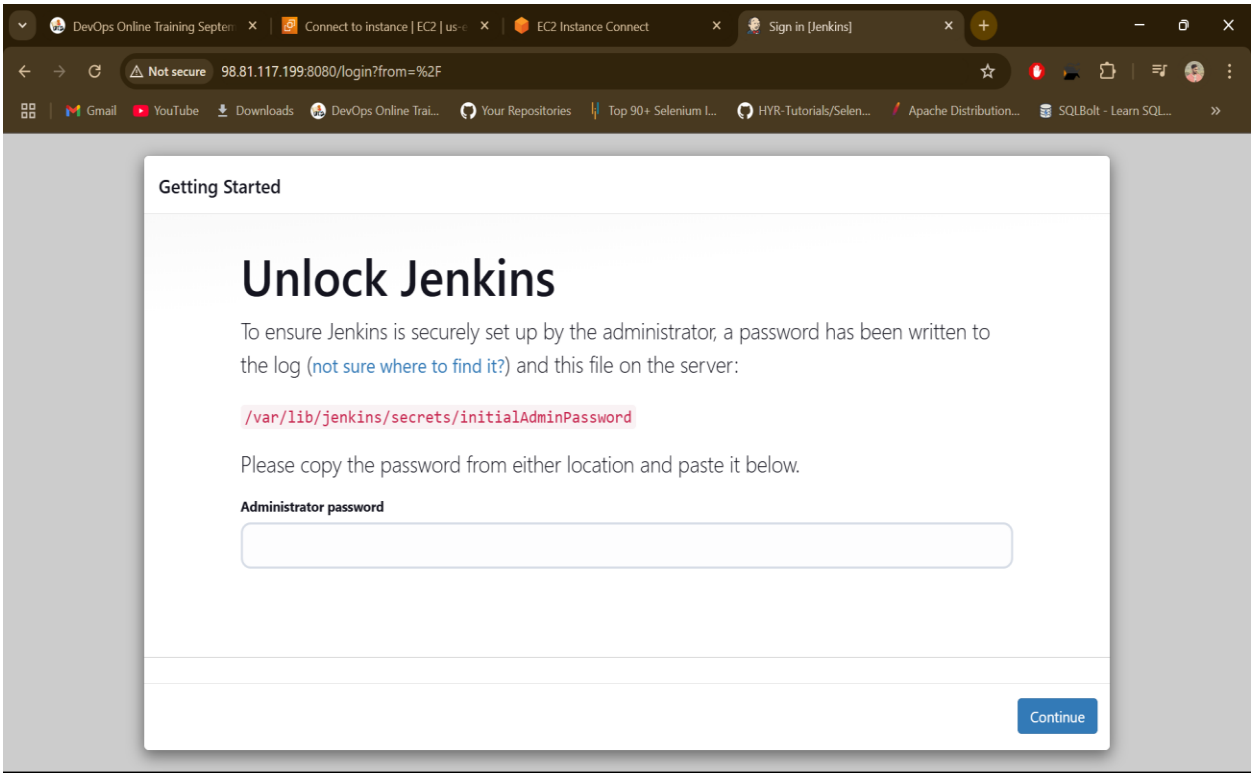
```
root@ip-172-31-17-170:~

Total download size: 91 M
Installed size: 92 M
Downloading packages:
jenkins-2.479.1-1.1.noarch.rpm                                                    |  91 MB  00:00:05
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : jenkins-2.479.1-1.1.noarch                                                    1/1
  Verifying  : jenkins-2.479.1-1.1.noarch                                                    1/1

Installed:
  jenkins.noarch 0:2.479.1-1.1

Complete!
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; disabled; vendor preset: disabled)
   Active: active (running) since Sun 2024-11-03 06:45:57 UTC; 6ms ago
 Main PID: 6749 (java)
   CGroup: /system.slice/jenkins.service
           └─6749 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=%C/jenkins/war --httpPort=8080...

Nov 03 06:45:50 ip-172-31-17-170.ec2.internal jenkins[6749]: Jenkins initial setup is required. An admin user has been create...ated.
Nov 03 06:45:50 ip-172-31-17-170.ec2.internal jenkins[6749]: Please use the following password to proceed to installation:
Nov 03 06:45:50 ip-172-31-17-170.ec2.internal jenkins[6749]: 7a1d2f3a68ef41df9837951cf913ab24
Nov 03 06:45:50 ip-172-31-17-170.ec2.internal jenkins[6749]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Nov 03 06:45:50 ip-172-31-17-170.ec2.internal jenkins[6749]: ************************************************************
Nov 03 06:45:50 ip-172-31-17-170.ec2.internal jenkins[6749]: ************************************************************
Nov 03 06:45:50 ip-172-31-17-170.ec2.internal jenkins[6749]: ************************************************************
Nov 03 06:45:57 ip-172-31-17-170.ec2.internal jenkins[6749]: 2024-11-03 06:45:57.902+0000 [id=31]        INFO        jenkins....ation
Nov 03 06:45:57 ip-172-31-17-170.ec2.internal jenkins[6749]: 2024-11-03 06:45:57.927+0000 [id=24]        INFO        hudson.l...nning
Nov 03 06:45:57 ip-172-31-17-170.ec2.internal systemd[1]: Started Jenkins Continuous Integration Server.
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-17-170 ~]#
```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EC2 Instance Connect
Sign in [Jenkins]
Not secure
98.81.117.199:8080/login?from=%2F
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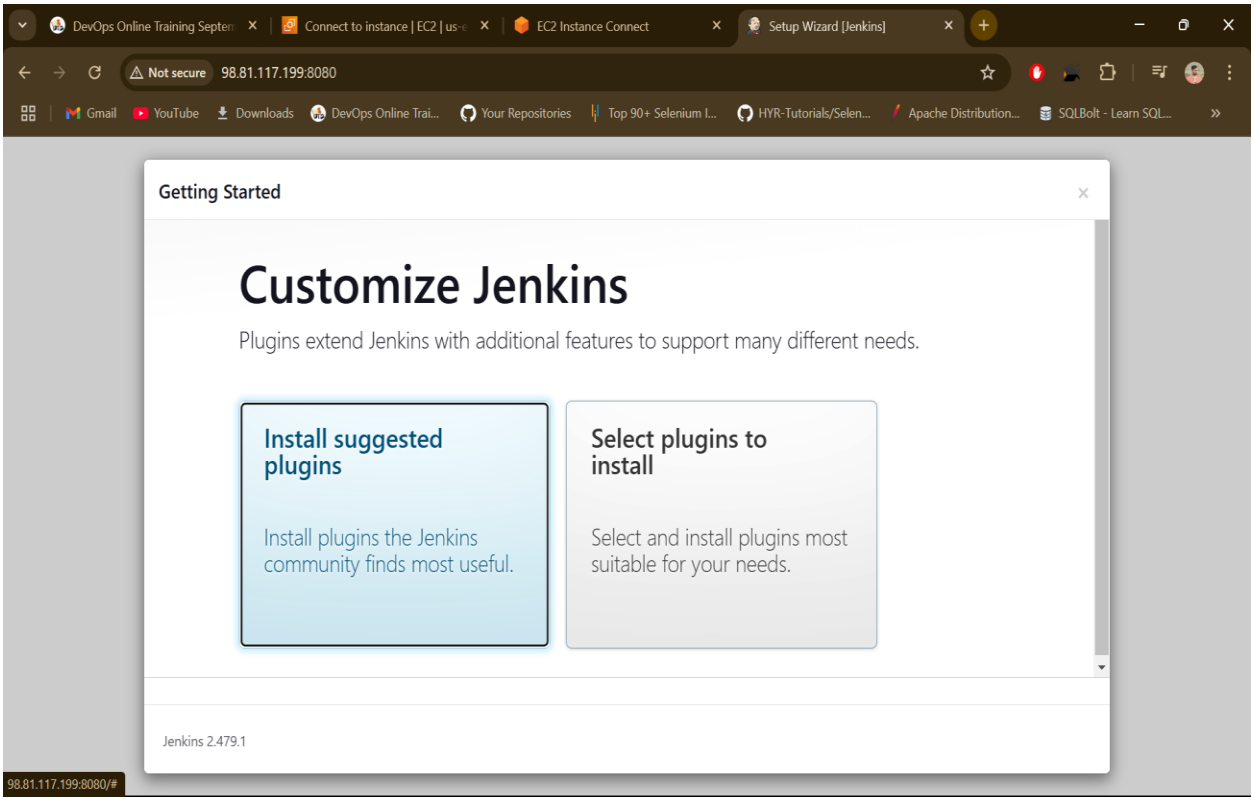
Getting Started
Unlock Jenkins
To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:
/var/lib/jenkins/secrets/initialAdminPassword
Please copy the password from either location and paste it below.
Administrator password
Continue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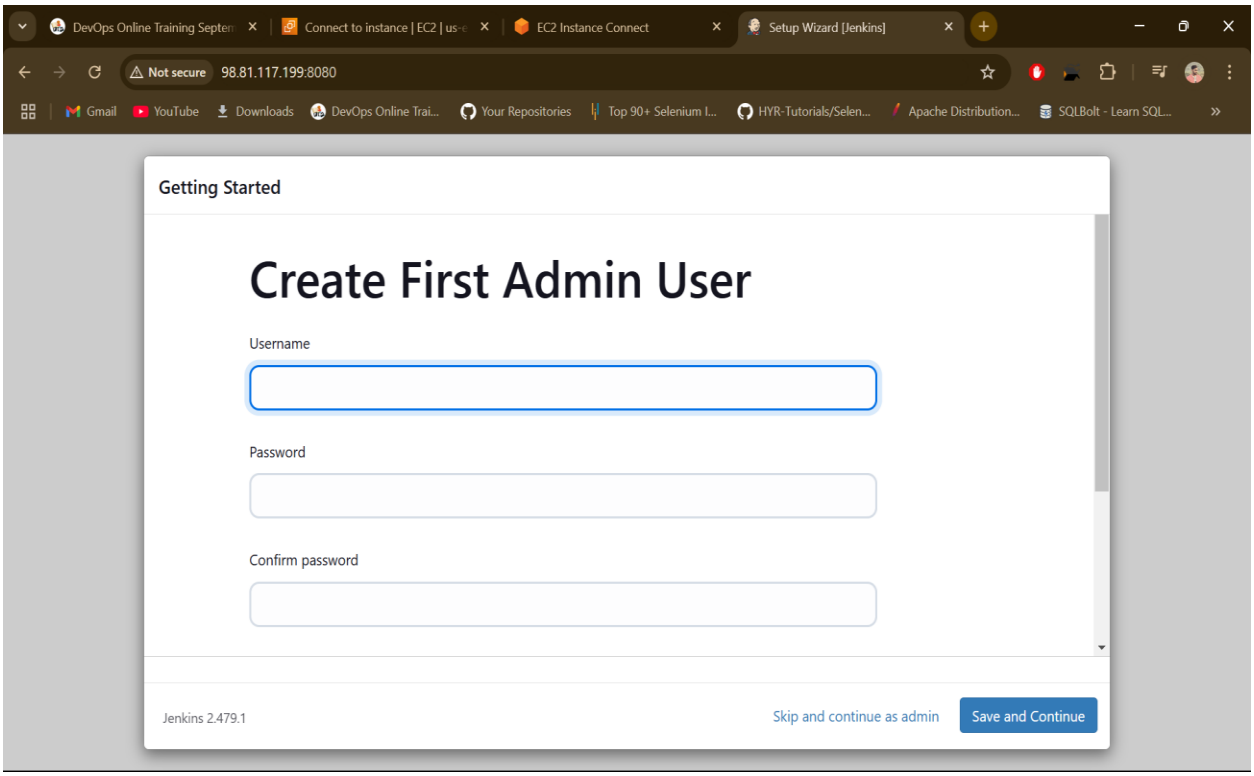
Getting Started
Customize Jenkins
Plugins extend Jenkins with additional features to support many different needs.
Install suggested plugins
Install plugins the Jenkins community finds most useful.
Select plugins to install
Select and install plugins most suitable for your needs.
Jenkins 2.479.1
98.81.117.199:8080/#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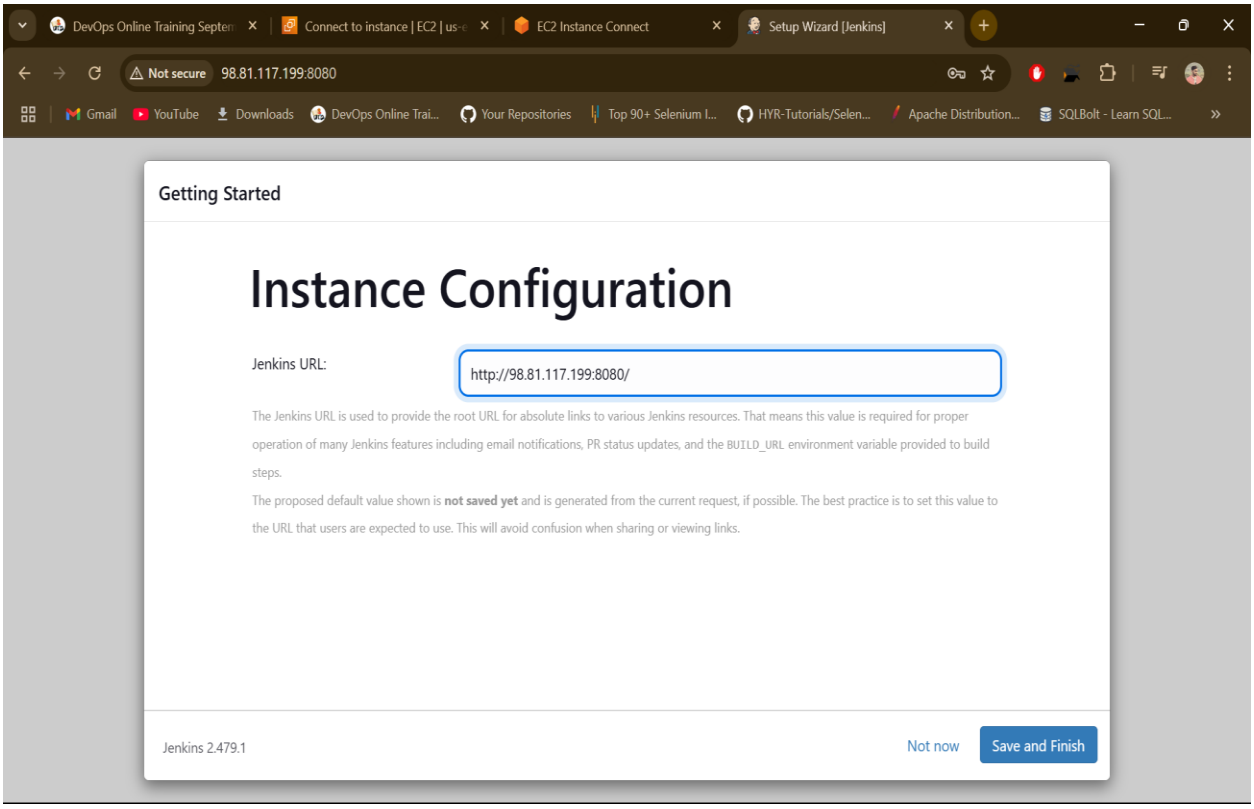
Apache Distribution...
SQLBolt - Learn SQL...
Getting Started
Create First Admin User
Username
Password
Confirm password
Jenkins 2.479.1
Skip and continue as admin
Save and Continue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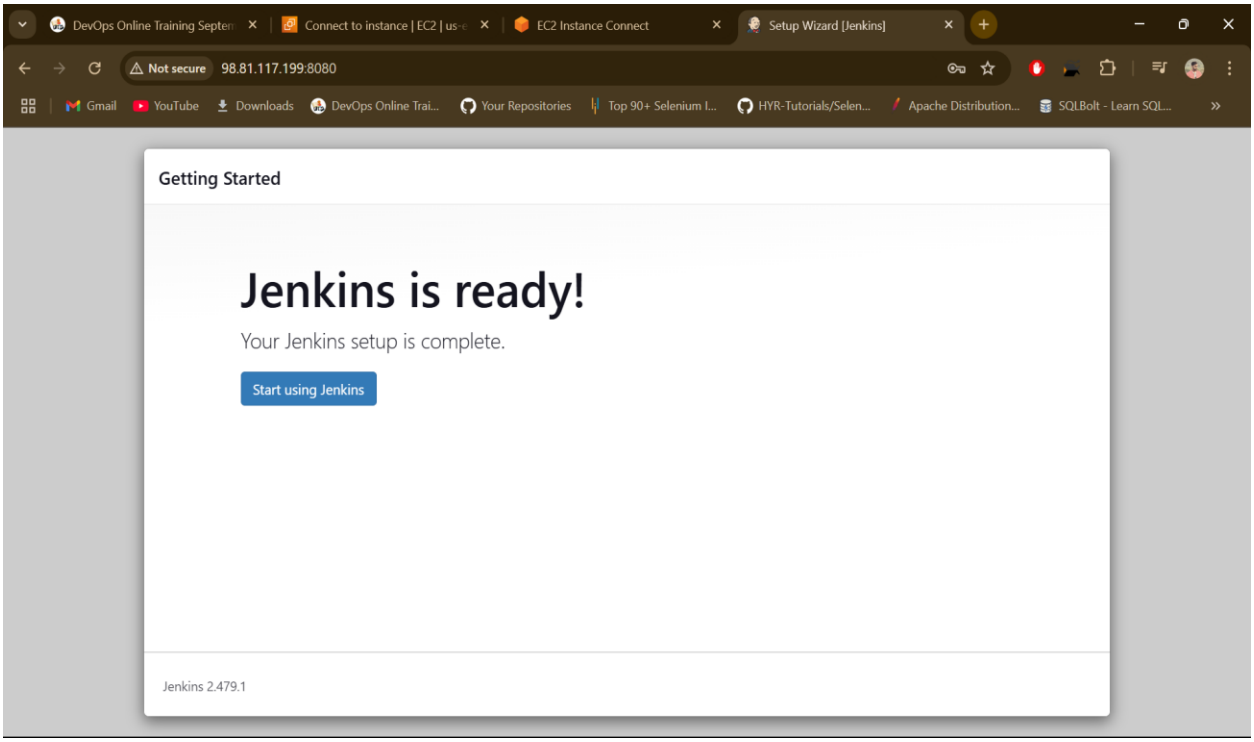
Getting Started
Instance Configuration
Jenkins URL:
http://98.81.117.199:8080/
The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.
The proposed default value shown is not saved yet and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.
Jenkins 2.479.1
Not now
Save and Finish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EC2 Instance Connect
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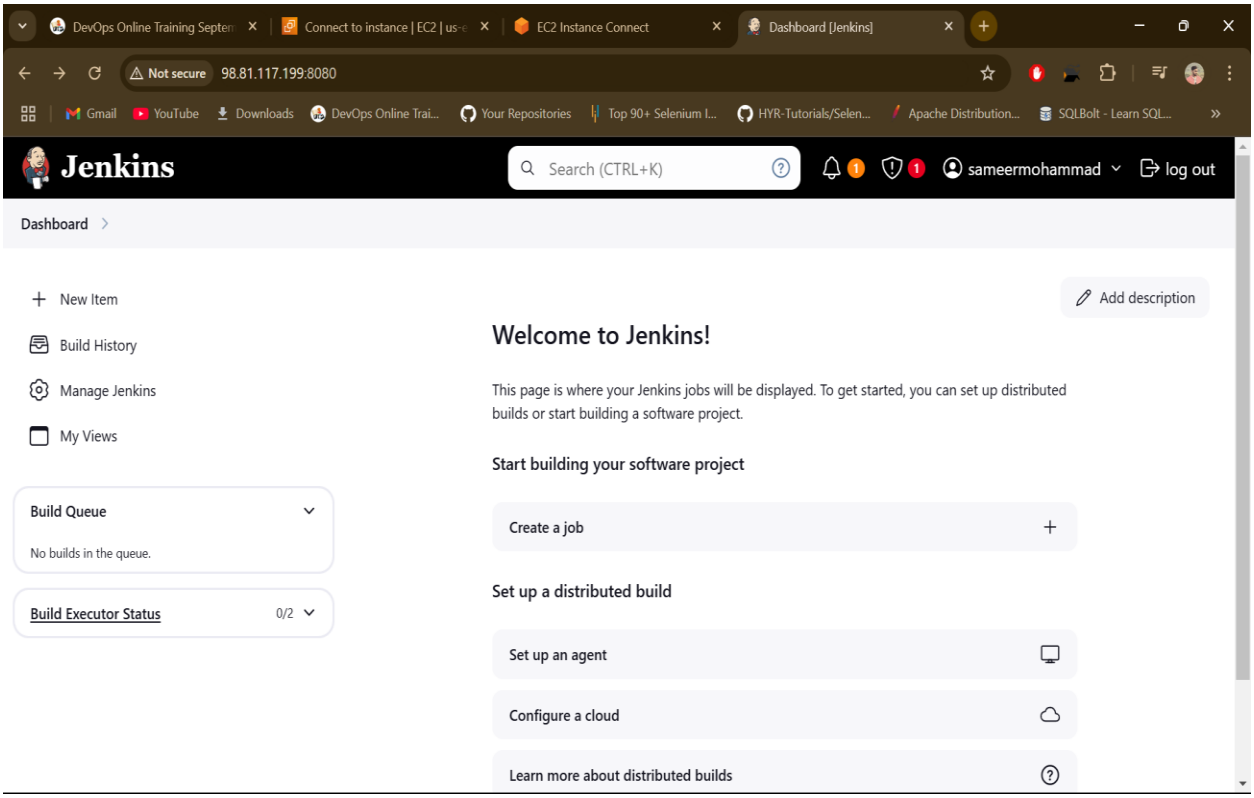
Getting Started
Jenkins is ready!
Your Jenkins setup is complete.
Start using Jenkins
Jenkins 2.479.1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EC2 Instance Connect
Dashboard [Jenkins]
Not secure
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HYR-Tutorials/Selen...
Apache Distribution...
SQLBolt - Learn SQL...
Jenkins
Search (CTRL+K)
sameermohammad
log out
Dashboard
New Item
Build History
Manage Jenkins
My Views
Build Queue
No builds in the queue.
Build Executor Status
0/2
Add description
Welcome to Jenkins!
This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.
Start building your software project
Create a job
Set up a distributed build
Set up an agent
Configure a cloud
Learn more about distributed builds