

These are the steps to launch Jenkins Server:

**Step 1: Sign in to AWS Console**

- Go to the [AWS Management Console](#).
- Sign in with your AWS account credentials.

**Step 2: Launch EC2 Instance**

- In the AWS Management Console, navigate to the EC2 service.
- Click on the "Instances" link in the left navigation pane.
- Click the "Launch Instances" button.
- Choose an Amazon Machine Image (AMI). You may want to use an Amazon Linux or Ubuntu image.
- Select an instance type based on your requirements and click "Next: Configure Instance Details".
- Configure instance details such as the number of instances, network settings, and IAM role. Click "Next: Add Storage" when done.
- Set storage size and configurations. Click "Next: Add Tags" when done.
- Add any relevant tags for your instance (optional). Click "Next: Configure Security Group".
- Configure security group settings. Make sure to open the necessary ports, such as port 22 for SSH and any additional ports needed for your application. Click "Review and Launch" when done.
- Review your configurations and click "Launch".
- Select or create a key pair to connect to your instance securely. Click "Launch Instances".

**Step 3: Connect to Your EC2 Instance**

- Once the instance is running, go back to the EC2 Dashboard.
- Select your instance from the list.
- Click the "Connect" button.

The image consists of three vertically stacked screenshots of the AWS Cloud Console, specifically the EC2 service interface.

**Screenshot 1: EC2 Dashboard**

This screenshot shows the EC2 Dashboard. On the left, there's a sidebar with navigation links like EC2 Global View, Events, Instances, Images, Elastic Block Store, and more. The main area displays various resource counts: Instances (running) 0, Auto Scaling Groups 0, Dedicated Hosts 0, Elastic IPs 0, Instances 0, Key pairs 0, Load balancers 0, Placement groups 0, Security groups 1, Snapshots 0, and Volumes 0. Below this is a "Launch instance" button and a "Service health" section. To the right, there's a "EC2 Free Tier Info" section with a summary of offers and account attributes.

**Screenshot 2: Launch an instance**

This screenshot shows the "Launch an instance" wizard. It starts with a "Name and tags" step where the user has entered "Jenkins-server". In the "Application and OS Images (Amazon Machine Image)" step, the user has selected "Ubuntu" from the dropdown. The "Quick Start" section shows various AMI options. A modal window at the bottom right provides information about the free tier offer.

**Screenshot 3: Applications**

This screenshot shows the "Applications" page. It lists applications by region, with "eu-north-1 (Current Region)" selected. There are no applications listed under "eu-north-1". A "Create application" button is available for creating new applications.

The image consists of three vertically stacked screenshots of the AWS CloudShell interface, showing the steps to launch an EC2 instance.

**Screenshot 1: Quick Start**

This screen shows the "Quick Start" section where users can choose from various AMIs. The selected AMI is "Ubuntu Server 20.04 LTS (HVM), SSD Volume Type". The "Free tier eligible" badge is visible. The "Instance type" dropdown is open, showing "t3.micro" as the selected option. A tooltip indicates the free tier includes 750 hours of t2.micro or t3.micro usage. The "Launch instance" button is highlighted in orange.

**Screenshot 2: Instance type details**

This screen provides more details about the chosen instance type, "t3.micro". It lists CPU, memory, and generation information. The "Key pair (login)" section is expanded, showing a dropdown menu for selecting a key pair. The "Network settings" section is also visible. A tooltip for the free tier is present. The "Launch instance" button is again highlighted.

**Screenshot 3: Create key pair**

This screen shows the "Create key pair" dialog box. The "Key pair name" field contains "server". The "Key pair type" section offers two options: "RSA" (selected) and "ED25519". The "Private key file format" section offers ".pem" (selected) and ".ppk". A note at the bottom states: "When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance." The "Create key pair" button is highlighted in orange.

The screenshot shows the AWS CloudShell interface with two tabs open. The top tab displays the AWS Lambda console, and the bottom tab displays the AWS CloudShell terminal window. The terminal window shows the command `aws ec2 run-instances` being typed, followed by a configuration JSON object specifying the instance type (t3.micro), key pair (server), and network settings (VPC, subnet, security group). A modal dialog box is visible, prompting the user to confirm the launch of the instance. The AWS logo and navigation bar are visible at the top of the page.

```
aws ec2 run-instances --image-id ami-07e4220c9258fb40 --instance-type t3.micro --key-name server --count 1 --subnet-id subnet-000000000000000000 --security-group-ids sg-000000000000000000
```

```
{  "ImageId": "ami-07e4220c9258fb40",  "InstanceType": "t3.micro",  "KeyName": "server",  "MinCount": 1,  "MaxCount": 1,  "SubnetId": "subnet-000000000000000000",  "SecurityGroupIds": ["sg-000000000000000000"],  "NetworkInterfaces": [    {      "AssociatePublicIpAddress": true,      "SubnetId": "subnet-000000000000000000"    }  ]}
```

CloudShell Feedback

Type here to search

CloudShell Feedback

Type here to search

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances

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CloudShell Feedback

Type here to search

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Type here to search

The image consists of three vertically stacked screenshots of the AWS CloudWatch Metrics interface, showing the EC2 Instances page.

**Screenshot 1: Launching Instance**

This screenshot shows the "Launch Initiation" progress bar at 79%. The message "Please wait while we launch your instance. Do not close your browser while this is loading." is displayed.

**Screenshot 2: Instances (1) Info**

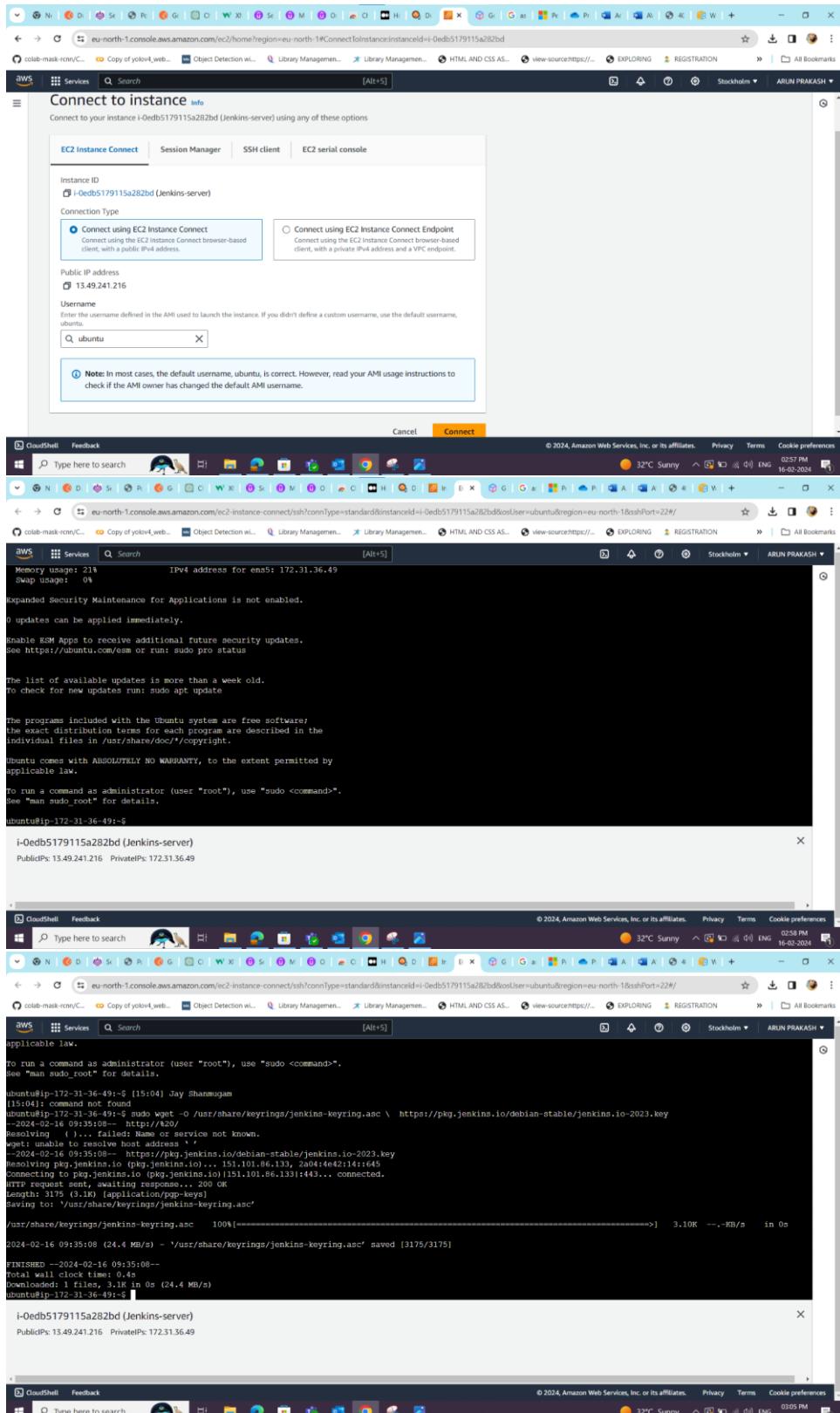
This screenshot shows the list of instances. One instance, "Jenkins-server" (i-0edb5179115a282bd), is listed with the following details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Jenkins-server	i-0edb5179115a282bd	Running	t3.micro	Initializing		eu-north-1b	ec2-13-49-241-2

**Screenshot 3: Instance summary for i-0edb5179115a282bd (Jenkins-server)**

This screenshot provides detailed information about the instance:

Detail	Value
Instance ID	i-0edb5179115a282bd (Jenkins-server)
IPv6 address	-
Hostname type	IP name: ip-172-31-36-49.eu-north-1.compute.internal
Answer private resource DNS name	IPv4 (A)
Auto-assigned IP address	13.49.241.216 [Public IP]
IAM Role	-
IMDSv2	Required
Public IPv4 address	13.49.241.216 [open address]
Instance state	Running
Private IP DNS name (IPv4 only)	ip-172-31-36-49.eu-north-1.compute.internal
Instance type	t3.micro
VPC ID	vpc-0ee2bb3aabdc87495
Subnet ID	subnet-0b9d2da3f9f499ae6
Private IPv4 addresses	172.31.36.49
Public IPv4 DNS	ec2-13-49-241-216.eu-north-1.compute.amazonaws.com [open address]
Elastic IP addresses	-
AWS Compute Optimizer finding	Opt-in to AWS Compute Optimizer for recommendations.
Auto Scaling Group name	-



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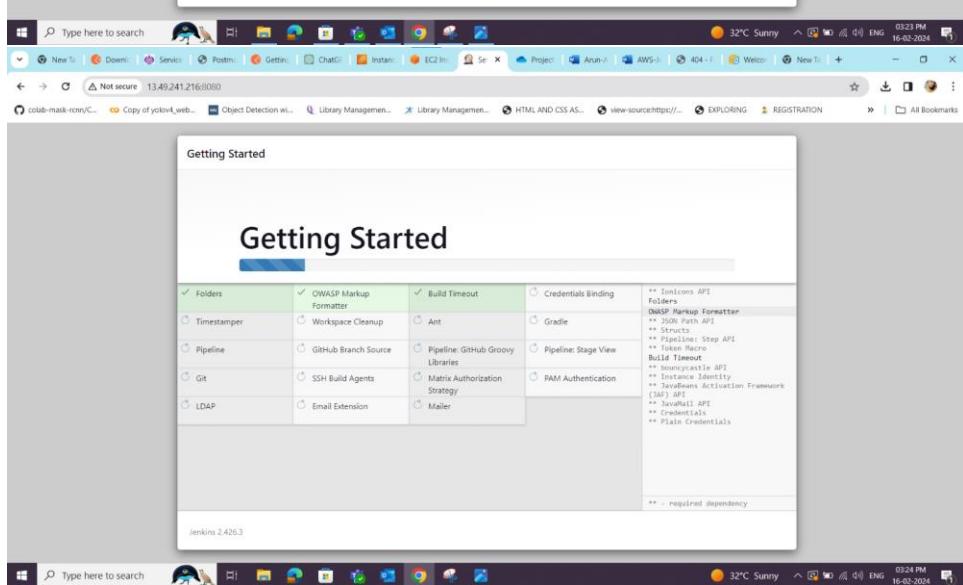
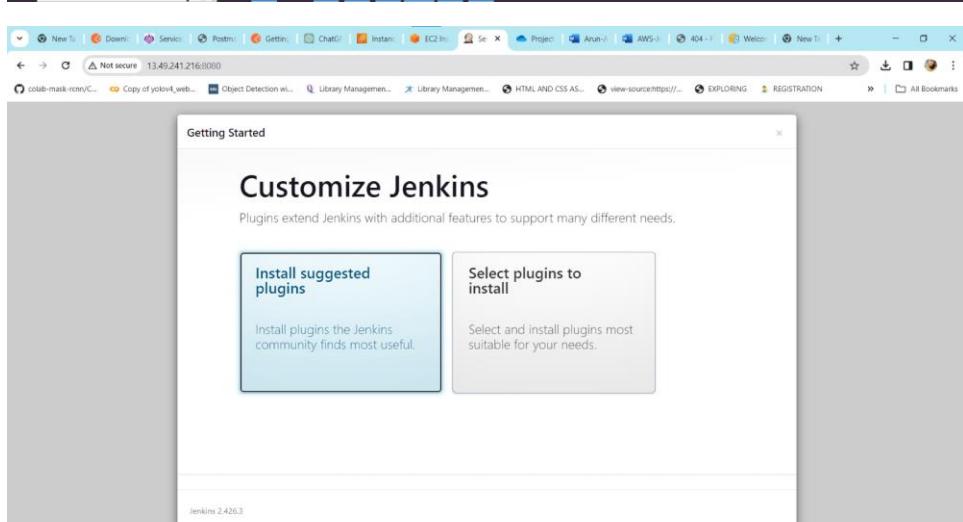
```
System load: 0.0 Processes: 103
Usage of /: 32.8% of 7.57GB Users logged in: 0
Memory usage: 53% IPv4 address for en5: 172.31.36.49
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.
86 updates can be applied immediately.
60 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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

New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Feb 16 09:28:05 2024 from 13.49.216.0
ubuntu@ip-172-31-36-49:~$ cat /var/lib/jenkins/secrets/initialAdminPassword
pe3d6ec5a9d451699174360c2ec6d09
ubuntu@ip-172-31-36-49:~$ i-0edb5179115a282bd (Jenkins-server)
PublicIPs: 13.49.241.216 PrivateIPs: 172.31.36.49
```



Getting Started

Username  
anunprakash

Password  
.....

Confirm password  
.....

Full name  
ARUN PRAKASH N

E-mail address  
arun.nagappan@aspireys.com

Jenkins 2.426.3 Skip and continue as admin Save and Continue

Instance Configuration

Jenkins URL: http://13.49.241.216:8080/

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 `RETRY_ON_FAILURE` 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 2.426.3 Not now Save and Finish

The screenshot shows a web browser window with the address bar displaying "Not secure 13.49.241.216:8080". The main content area is titled "Getting Started" and features a large heading "Jenkins is ready!". Below it, a message says "Your Jenkins setup is complete." and a blue button labeled "Start using Jenkins". At the bottom of the page, it says "jenkins 2.426.3".

**Jenkins Dashboard:**

- Left sidebar:
  - + New Item
  - People
  - Build History
  - Manage Jenkins
  - My Views
- Top right: "Welcome to Jenkins!" and "Add description"
- Middle section:
  - Build Queue: "No builds in the queue."
  - Build Executor Status: "1 Idle" and "2 Idle"
  - Create a job: "Create a job" button
  - Set up a distributed build:
    - Set up an agent
    - Configure a cloud
    - Learn more about distributed builds
- Bottom right: "REST API" and "Jenkins 2.426.3"

The image shows two side-by-side browser windows. The left window displays the Jenkins dashboard at <http://13.49.241.216:8080>. The right window shows the AWS Management Console EC2 service, specifically the instance details for i-0edb5179115a282bd.

**Jenkins Dashboard:**

- Left sidebar: New Item, People, Build History, Manage Jenkins, My Views.
- Build Queue: No builds in the queue.
- Build Executor Status: 1 idle, 2 idle.
- Welcome to Jenkins! message: "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 section: Create a job, Set up a distributed build (with options for Set up an agent, Configure a cloud, and Learn more about distributed builds).

**AWS EC2 Instance Details:**

- EC2 Dashboard, EC2 Global View, Events.
- Instances: Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations (New).
- Images: AMIs, AMI Catalog.
- Elastic Block Store: Volumes, Snapshots.
- Instance Details for i-0edb5179115a282bd (Jenkins-server):
  - Instance ID: i-0edb5179115a282bd (Jenkins-server)
  - Private IP: 172.31.30.49
  - Public IP: 34.120.216.124
  - Hostname type: IP name: ip-172-31-30-49.eu-north-1.compute.internal
  - Answer private resource DNS name: ip-49.eu-north-1.compute.internal
  - Auto assigned IP address: Failed to retrieve Auto-assigned IP address
  - OS Name: Amazon Linux 2
  - AMI Name: Amazon Linux 2 (HVM, SSD Volume Type) - 2023.09.0
  - Subnet ID: subnet-000d2da5f9f4993e0
  - Auto Scaling Group name: Jenkins-ASG
- Action: Stop instance dialog box:
  - Instance IDs: i-0edb5179115a282bd (Jenkins-server)
  - Warning: After you stop the instance, you are no longer charged usage or data transfer fees for it. However, you will still be billed for associated resources, such as attached EBS volumes and associated Elastic IP addresses.
  - To confirm: To confirm that you want to stop the instance, choose the Stop button below.
  - Buttons: Cancel, Stop.