

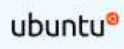



Tasks To Be Performed:


1. Create a Git Flow workflow architecture on Git
2. Create all the required branches
3. Starting from the feature branch, push the branch to the master, following the architecture
4. Push a urgent.txt on master using hotfix


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
ami-04b70fa74e45c3917 (64-bit (x86)) / ami-0eac975a54dfee8cb (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible ▼

Description

Canonical, Ubuntu, 24.04 LTS, amd64 noble image build on 2024-04-23

Architecture
64-bit (x86) ▼

AMI ID
ami-04b70fa74e45c3917

Verified provider

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

Instance type
t2.micro
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour

Free tier eligible

☐ All generations

▼ Summary


Number of instances [Info](#)


[Software Image \(AMI\)](#)
Canonical, Ubuntu, 24.04 LTS, ...[read more](#)
ami-04b70fa74e45c3917

[Virtual server type \(instance type\)](#)
t2.micro

[Firewall \(security group\)](#)
default

[Storage \(volumes\)](#)
1 volume(s) - 8 GiB

 **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in



Cancel

Launch instance

[Review commands](#)

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 SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.0716 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour

[t2.micro](#)

[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.

Key pair name - *required*

[↻](#) [Create new key pair](#)

▼ **Network settings** [Info](#)

[Edit](#)

Network [Info](#)

vpc-06a980b08a54688af

Subnet [Info](#)

No preference (Default subnet in any availability zone)

▼ **Summary**

Number of instances [Info](#)

[Software Image \(AMI\)](#)

Canonical, Ubuntu, 24.04 LTS, ...[read more](#)
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[i](#) **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in

[✕](#)

[Cancel](#)

[Launch instance](#)

[Review commands](#)





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

Common security groups [Info](#)

Select security groups ▾

default sg-06d9c74e80448682b ✕

VPC: vpc-06a980b08a54688af

↻ [Compare security group rules](#)

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▼ **Configure storage** [Info](#)

[Advanced](#)

1x GiB ▾ Root volume (Not encrypted)

[❗](#) Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage ✕

▼ **Summary**

Number of instances [Info](#)

[Software Image \(AMI\)](#)

Canonical, Ubuntu, 24.04 LTS, ...[read more](#)
ami-04b70fa74e45c3917

[Virtual server type \(instance type\)](#)

t2.micro

[Firewall \(security group\)](#)

default

[Storage \(volumes\)](#)

1 volume(s) - 8 GiB

[❗](#) **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in [your region](#)) ✕

Cancel

Launch instance

[Review commands](#)



EC2 > Instances > Launch an instance

✔ Success
Successfully initiated launch of instance [\(i-0cf8082d9925f99d5\)](#)

▶ 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 thresholds.

Create billing alerts

Connect to your instance

Once your instance is running, log into it from your local computer.

Connect to instance

[Learn more](#)

Connect an RDS database

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

Connect an RDS database

[Create a new RDS database](#)

[Learn more](#)

Create EBS snapshot policy

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

Create EBS snapshot policy

- EC2 Dashboard ✕
- EC2 Global View
- Events
- Console-to-Code [Preview](#)
- ▼ 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

Instances (1/1) [Info](#)

[↺](#) [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

[All states](#) [< 1 >](#) [⚙️](#)

<input checked="" type="checkbox"/>	Name ✎	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status	Availability
<input checked="" type="checkbox"/>	git-mrng-12	i-0cf8082d9925f99d5	✔️ Running 🔍 🔍	t2.micro	🕒 Initializing	View alarms +	us-east-1

Unselect instance: git-mrng-12

i-0cf8082d9925f99d5 (git-mrng-12) [⚙️](#) [✕](#)

[Details](#) [Status and alarms \[New\]\(#\)](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

▼ Instance summary [Info](#)

Instance ID

[📄](#) i-0cf8082d9925f99d5 (git-mrng-12)

IPv6 address

–

Hostname type

Public IPv4 address

[📄](#) 3.88.102.43 | [open address](#) [🔗](#)

Instance state

✔️ Running

Private IP DNS name (IPv4 only)

Private IPv4 addresses

[📄](#) 172.31.16.198


Public IPv4 DNS

[📄](#) ec2-3-88-102-43.compute-1.amazonaws.com | [open address](#) [🔗](#)

Connect to instance [Info](#)

Connect to your instance i-0cf8082d9925f99d5 (git-mrng-12) using any of these options

- EC2 Instance Connect
- Session Manager
- SSH client
- EC2 serial console

**Port 22 (SSH) is open to all IP addresses**

Port 22 (SSH) is currently open to all IP addresses, indicated by 0.0.0.0/0 in the inbound rule in [your security group](#). For increased security, consider restricting access to only the EC2 Instance Connect service IP addresses for your Region: 18.206.107.24/29. [Learn more](#).

Instance ID

 i-0cf8082d9925f99d5 (git-mrng-12)


Connection Type

- ☒ **Connect using EC2 Instance Connect**

Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.
- ☐ **Connect using EC2 Instance Connect Endpoint**

Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address

 3.88.102.43

Username

Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

[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

Recents

My AMIs

Quick Start

▼ Summary

Number of instances [Info](#)

Software Image (AMI)

Canonical, Ubuntu, 24.04 LTS, ...[read more](#)
ami-04b70fa74e45c3917

Virtual server type (instance type)

t2.micro

Firewall (security group)

default

Storage (volumes)

1 volume(s) - 8 GiB

[❏](#) **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in

Cancel

Launch instance

[Review commands](#)



```
ubuntu@ip-172-31-16-198:~/assignment4$ cd
ubuntu@ip-172-31-16-198:~$ mkdir assignment5
ubuntu@ip-172-31-16-198:~$ cd assignment5
ubuntu@ip-172-31-16-198:~/assignment5$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ubuntu/assignment5/.git/
ubuntu@ip-172-31-16-198:~/assignment5$ touch master.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git add .&& git commit -m "master commit"
[master (root-commit) b8baf84] master commit
Committer: Ubuntu <ubuntu@ip-172-31-16-198.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

git config --global --edit
```

After doing this, you may fix the identity used for this commit with:

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43 PrivateIPs: 172.31.16.198

```
git commit --amend --reset-author
```

```
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 master.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git branch
* master
ubuntu@ip-172-31-16-198:~/assignment5$ git add .&& git commit -m "master done"
On branch master
nothing to commit, working tree clean
ubuntu@ip-172-31-16-198:~/assignment5$ git branch
* master
ubuntu@ip-172-31-16-198:~/assignment5$ git branch test
ubuntu@ip-172-31-16-198:~/assignment5$ git branch feature1
ubuntu@ip-172-31-16-198:~/assignment5$ git branch feature2
ubuntu@ip-172-31-16-198:~/assignment5$ git checkout feature1
Switched to branch 'feature1'
ubuntu@ip-172-31-16-198:~/assignment5$ touch f1.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git add .&& git commit -m "f1 done"
[feature1 9ee618d] f1 done
Committer: Ubuntu <ubuntu@ip-172-31-16-198.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
```

```
git config --global --edit
```

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43 PrivateIPs: 172.31.16.198





```
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f2.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git checkout test
Switched to branch 'test'
ubuntu@ip-172-31-16-198:~/assignment5$ ls
master.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git merge feature1
Updating b8baf84..9ee618d
Fast-forward
 f1.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f1.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git merge feature2
Merge made by the 'ort' strategy.
 f2.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f2.txt
ubuntu@ip-172-31-16-198:~/assignment5$ ls
f1.txt f2.txt master.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git checkout master
Switched to branch 'master'
ubuntu@ip-172-31-16-198:~/assignment5$ git merge test
Updating b8baf84..d2c1a79
Fast-forward
 f1.txt | 0
 f2.txt | 0
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f1.txt
```



i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43 PrivateIPs: 172.31.16.198


```
ubuntu@ip-172-31-16-198:~/assignment5$ ls
f1.txt f2.txt master.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git checkout -b hotfix
Switched to a new branch 'hotfix'
ubuntu@ip-172-31-16-198:~/assignment5$ touch urgent.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git add .&& git commit -m "hotfix done"
[hotfix d2d9459] hotfix done
Committer: Ubuntu <ubuntu@ip-172-31-16-198.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 urgent.txt
ubuntu@ip-172-31-16-198:~/assignment5$ ls
f1.txt f2.txt master.txt urgent.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git checkout master
Switched to branch 'master'
ubuntu@ip-172-31-16-198:~/assignment5$ ls
f1.txt f2.txt master.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git add .&& git commit -m "hotfix done"
```

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43 PrivateIPs: 172.31.16.198



```
git commit --amend --reset-author
```

```
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 urgent.txt
ubuntu@ip-172-31-16-198:~/assignment5$ ls
f1.txt f2.txt master.txt urgent.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git checkout master
Switched to branch 'master'
ubuntu@ip-172-31-16-198:~/assignment5$ ls
f1.txt f2.txt master.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git add .&& git commit -m "hotfix done"
On branch master
nothing to commit, working tree clean
ubuntu@ip-172-31-16-198:~/assignment5$ git checkout hotfix
Switched to branch 'hotfix'
ubuntu@ip-172-31-16-198:~/assignment5$ ls
f1.txt f2.txt master.txt urgent.txt
ubuntu@ip-172-31-16-198:~/assignment5$ git checkout master
Switched to branch 'master'
ubuntu@ip-172-31-16-198:~/assignment5$ git merge hotfix
Updating d2c1a79..d2d9459
Fast-forward
 urgent.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 urgent.txt
ubuntu@ip-172-31-16-198:~/assignment5$ ls
f1.txt f2.txt master.txt urgent.txt
ubuntu@ip-172-31-16-198:~/assignment5$
```

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43 PrivateIPs: 172.31.16.198

