

## Tasks To Be Performed:

1. Create a Git working directory, with the following branches:
  - Develop
  - F1
  - f2
2. In the master branch, commit main.txt file
3. Put develop.txt in develop branch, f1.txt and f2.txt in f1 and f2 respectively
4. Push all these branches to GitHub
5. On local delete f2 branch
6. Delete the same branch on GitHub as well

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

AMI ID

64-bit (x86) ▼

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](#)  
ami-04b70fa74e45c3917

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

t2.micro

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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](#)





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](#)

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t2.micro

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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](#)



**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"

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

# 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:~$ mkdir assignment3
ubuntu@ip-172-31-16-198:~$ cd assignment3
ubuntu@ip-172-31-16-198:~/assignment3$ 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/assignment3/.git/
ubuntu@ip-172-31-16-198:~/assignment3$ nano main.txt
ubuntu@ip-172-31-16-198:~/assignment3$ git add .&& git commit -m "master done"
[master (root-commit) 0dacf59] master 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
```

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43 PrivateIPs: 172.31.16.198



```
1 file changed, 1 insertion(+)
create mode 100644 main.txt
ubuntu@ip-172-31-16-198:~/assignment3$ git branch develop
ubuntu@ip-172-31-16-198:~/assignment3$ git add .&& git commit -m "master done"
On branch master
nothing to commit, working tree clean
ubuntu@ip-172-31-16-198:~/assignment3$ git branch develop
fatal: a branch named 'develop' already exists
ubuntu@ip-172-31-16-198:~/assignment3$ git checkout develop
Switched to branch 'develop'
ubuntu@ip-172-31-16-198:~/assignment3$ touch develop.txt
ubuntu@ip-172-31-16-198:~/assignment3$ git add .&& git commit -m "master done"
[develop 44b964d] master 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

2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 develop.
```

i-0cf8082d9925f99d5 (git-mrng-12) ✕

PublicIPs: 3.88.102.43 PrivateIPs: 172.31.16.198



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 f2.txt
ubuntu@ip-172-31-16-198:~/assignment3$ ls
develop.  f1.txt  f2.txt  main.txt  txt
ubuntu@ip-172-31-16-198:~/assignment3$ git branch
  develop
* f1
* f2
  master
ubuntu@ip-172-31-16-198:~/assignment3$ git remote add origin https://github.com/sujith123ak/assign3git.git
ubuntu@ip-172-31-16-198:~/assignment3$ git push --all
Username for 'https://github.com': sujith123ak
Password for 'https://sujith123ak@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Compressing objects: 100% (7/7), done.
Writing objects: 100% (10/10), 845 bytes | 422.00 KiB/s, done.
Total 10 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
```

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43 PrivateIPs: 172.31.16.198

## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Required fields are marked with an asterisk (\*).

Owner \*

 sujith123ak ▾

Repository name \*

assign3git

✔ assign3git is available.

Great repository names are short and memorable. Need inspiration? How about **cuddly-octo-fortnight** ?

Description (optional)

- ☒  **Public**  
Anyone on the internet can see this repository. You choose who can commit.
- ☐  **Private**  
You choose who can see and commit to this repository.

Initialize this repository with:

- ☐ **Add a README file**  
This is where you can write a long description for your project. [Learn more about READMEs](#).

Add .gitignore

.gitignore template: None ▾

Choose which files not to track from a list of templates. [Learn more about ignoring files](#).

Choose a license

License: None ▾

A license tells others what they can and can't do with your code. [Learn more about licenses](#).



✔ assign3git is available.

Great repository names are short and memorable. Need inspiration? How about **cuddly-octo-fortnight** ?

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This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: None ▾

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

License: None ▾

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

 You are creating a public repository in your personal account.

Create repository



 **assign3git** Public

[📌 Pin](#) [👁 Unwatch 1](#) [🔗 Fork 0](#) [☆ Star 0](#)

 **f2** had recent pushes 1 minute ago





Compare & pull request

 **f1** had recent pushes 1 minute ago


Compare & pull request

[🔗 develop](#) [🔗 4 Branches](#) [🏷 0 Tags](#)

[t](#) [Add file](#) [<> Code](#)

 <b>Ubuntu</b> master done	44b964d · 13 minutes ago	🕒 2 Commits
 develop.	master done	13 minutes ago
 main.txt	master done	17 minutes ago
 txt	master done	13 minutes ago

[📖 README](#)



## Add a README

Help people interested in this repository understand your project by adding a README.

**About** [⚙](#)

No description, website, or topics provided.

[🔔 Activity](#)

[☆ 0 stars](#)

[👁 1 watching](#)

[🔗 0 forks](#)

**Releases**

No releases published

[Create a new release](#)

**Packages**

No packages published

[Publish your first package](#)

 **f2** had recent pushes 2 minutes ago

Compare & pull request

 **f1** had recent pushes 2 minutes ago

Compare & pull request

 **f2**  **4 Branches**  **0 Tags**











Add file 


 Code 

This branch is **2 commits ahead of** `develop`.

 Contribute 

 <b>Ubuntu</b> f2 done	4cb550a · 10 minutes ago	 <b>4 Commits</b>
 develop.	master done	15 minutes ago
 f1.txt	f1 done	12 minutes ago
 f2.txt	f2 done	10 minutes ago
 main.txt	master done	19 minutes ago
 txt	master done	15 minutes ago


 **README**




### Add a README

Help people interested in this repository understand your project by adding a README.


Add a README

About 

No description, website, or topics provided.

 Activity

 0 stars

 1 watching

 0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)



```
f1
* f2
master
ubuntu@ip-172-31-16-198:~/assignment3$ git remote add origin https://github.com/sujith123ak/assign3git.git
ubuntu@ip-172-31-16-198:~/assignment3$ git push --all
Username for 'https://github.com': sujith123ak
Password for 'https://sujith123ak@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Compressing objects: 100% (7/7), done.
Writing objects: 100% (10/10), 845 bytes | 422.00 KiB/s, done.
Total 10 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/sujith123ak/assign3git.git
 * [new branch]      develop -> develop
 * [new branch]      f1 -> f1
 * [new branch]      f2 -> f2
 * [new branch]      master -> master
ubuntu@ip-172-31-16-198:~/assignment3$ git checkout master
Switched to branch 'master'
ubuntu@ip-172-31-16-198:~/assignment3$ git branch -D f2
Deleted branch f2 (was 4cb550a).
ubuntu@ip-172-31-16-198:~/assignment3$ git branch
  develop
  f1
* master
ubuntu@ip-172-31-16-198:~/assignment3$ git push origin -d f2
Username for 'https://github.com': sujith123ak
Password for 'https://sujith123ak@github.com':
```

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43 PrivateIPs: 172.31.16.198



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  f1
* master
ubuntu@ip-172-31-16-198:~/assignment3$ git push origin -d f2
Username for 'https://github.com': sujith123ak
Password for 'https://sujith123ak@github.com':
To https://github.com/sujith123ak/assign3git.git
- [deleted]          f2
ubuntu@ip-172-31-16-198:~/assignment3$
```

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43 PrivateIPs: 172.31.16.198

