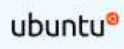## Tasks To Be Performed:

1. Put master.txt on master branch, stage and commit
2. Create 3 branches: public 1, public 2 and private
3. Put public1.txt on public 1 branch, stage and commit
4. Merge public 1 on master branch
5. Merge public 2 on master branch
6. Edit master.txt on private branch, stage and commit
7. Now update branch public 1 and public 2 with new master code in private
8. Also update new master code on master
9. Finally update all the code on the private branch

Customize Task Window

aws | Services | Search | [Option+S]

N. Virginia ▼ | rsujithsri16@gmail.com ▼

EC2

Amazon Linux	macOS	Ubuntu	Windows	Red Hat	SUS

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

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   Free tier eligible
Family: t2   1 vCPU   1 GiB Memory   Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour

⬤ All generations

▼ Summary

Number of instances | Info

1

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 instan**

Review commands

aws   ::: Services   Q Search   [Option+S]   N. Virginia ▼   rsujithsri16@gmail.com ▼

EC2

t2.micro   Free tier eligible
Family: t2   1 vCPU   1 GiB Memory   Current generation: true   ◯ All generations
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour   **Compare instance types**
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

▼ 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*

sujith123   ▼   ↻ **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

1

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 instan**

Review commands

aws | Services | Search [Option+S] | N. Virginia ▼ | rsujithsri16@gmail.com ▼

EC2

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 ✕   ↻ Compare security group rules
VPC: vpc-06a980b08a54688af

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

▼ Configure storage   Info   Advanced

1x 8   GiB gp3   ▼   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

1

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

aws   Services   Q Search   [Option+S]   N. Virginia ▼   rsujithsri16@gmail.com ▼

EC2

EC2 > Instances > Launch an instance

⊘ **Success**
Successfully initiated launch of instance (i-0cf8082d9925f99d5)

▶ **Launch log**

Next Steps

Q *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 ↗

aws :::: **Services** Q Search [Option+S]

N. Virginia ▼   rsujithsri16@gmail.com ▼

EC2

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** ▼

🔍 Find Instance by attribute or tag (case-sensitive)   All states ▼   < 1 > ⚙

☑	Name ✎ ▽	Instance ID	Instance state ▽	Instance type ▽	Status check	Alarm status	Availabil
☑	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)

Public IPv4 address
📋 3.88.102.43 | open address ↗

Private IPv4 addresses
📋 172.31.16.198

IPv6 address
–

Instance state
⊘ Running

Public IPv4 DNS
📋 ec2-3-88-102-43.compute-1.amazonaws.com |
open address ↗

Hostname type

Private IP DNS name (IPv4 only)

aws   ::: Services   Q Search   [Option+S]   🖵 🔔 ❓ ⚙️ N. Virginia ▼   rsujithsri16@gmail.com ▼

EC2

☰   EC2 > Instances > i-0cf8082d9925f99d5 > Connect to instance   ◔

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.

Q ubuntu   ✕

aws ::: Services | Q Search | [Option+S] | N. Virginia ▼ | rsujithsri16@gmail.com ▼

EC2

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

git-mrng-12   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

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

Recents | My AMIs | **Quick Start**

▼ Summary

Number of instances   Info

1

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:~/assignment3$ cd
ubuntu@ip-172-31-16-198:~$ mkdir assignment4
ubuntu@ip-172-31-16-198:~$ cd assignment4
ubuntu@ip-172-31-16-198:~/assignment4$ 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/assignment4/.git/
ubuntu@ip-172-31-16-198:~/assignment4$ nano master.txt
ubuntu@ip-172-31-16-198:~/assignment4$ git add .&& git commit -m "master commit"
[master (root-commit) 43245bd] 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

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0cf8082d9925f99d5&osU...

Finish update

aws   Services   Q Search   [Option+S]   N. Virginia ▼   rsujithsri16@gmail.com ▼

EC2

```
 1 file changed, 1 insertion(+)
 create mode 100644 master.txt
ubuntu@ip-172-31-16-198:~/assignment4$ git branch
* master
ubuntu@ip-172-31-16-198:~/assignment4$ git branch public1
ubuntu@ip-172-31-16-198:~/assignment4$ git branch public2
ubuntu@ip-172-31-16-198:~/assignment4$ git branch private
ubuntu@ip-172-31-16-198:~/assignment4$ ls
master.txt
ubuntu@ip-172-31-16-198:~/assignment4$ cat master.txt
this is master txt
ubuntu@ip-172-31-16-198:~/assignment4$ git checkout public1
Switched to branch 'public1'
ubuntu@ip-172-31-16-198:~/assignment4$ touch public1.txt
ubuntu@ip-172-31-16-198:~/assignment4$ git add .&& git commit -m "public1 commit"
[public1 c010592] public1 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:

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

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43   PrivateIPs: 172.31.16.198

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0cf8082d9925f99d5&osU...

Finish update

aws | Services | Search [Option+S] | N. Virginia ▼ | rsujithsri16@gmail.com ▼

EC2

```
ubuntu@ip-172-31-16-198:~/assignment4$ touch public2.txt
ubuntu@ip-172-31-16-198:~/assignment4$ git add .&& git commit -m "public2 commit"
[public2 f92401f] public2 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:

    git commit --amend --reset-author

 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 public2.txt
ubuntu@ip-172-31-16-198:~/assignment4$ git checkout master
Switched to branch 'master'
ubuntu@ip-172-31-16-198:~/assignment4$ git merge public1
Updating 43245bd..c010592
Fast-forward
 public1.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 public1.txt
ubuntu@ip-172-31-16-198:~/assignment4$ git merge public2
Merge made by the 'ort' strategy.
 public2.txt | 0
```

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43   PrivateIPs: 172.31.16.198

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0cf8082d9925f99d5&osU...   Finish update

aws   Services   Q Search   [Option+S]   N. Virginia ▼   rsujithsri16@gmail.com ▼

EC2

```
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 public2.txt
ubuntu@ip-172-31-16-198:~/assignment4$ ls
master.txt  public1.txt  public2.txt
ubuntu@ip-172-31-16-198:~/assignment4$ git checkout private
Switched to branch 'private'
ubuntu@ip-172-31-16-198:~/assignment4$ ls
master.txt
ubuntu@ip-172-31-16-198:~/assignment4$ nano master.txt
ubuntu@ip-172-31-16-198:~/assignment4$ git add .&& git commit -m "private done"
[private 7ddb9bf] private 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, 1 insertion(+), 1 deletion(-)
ubuntu@ip-172-31-16-198:~/assignment4$ git checkout public1
Switched to branch 'public1'
ubuntu@ip-172-31-16-198:~/assignment4$ git merge private
Merge made by the 'ort' strategy.
```

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43   PrivateIPs: 172.31.16.198

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0cf8082d9925f99d5&osU...

Finish update

aws   Services   Search   [Option+S]   N. Virginia ▼   rsujithsri16@gmail.com ▼

EC2

```
ubuntu@ip-172-31-16-198:~/assignment4$ ls
master.txt   public1.txt
ubuntu@ip-172-31-16-198:~/assignment4$ cat master.txt
Edited: this is new  master txt
ubuntu@ip-172-31-16-198:~/assignment4$ git checkout master
Switched to branch 'master'
ubuntu@ip-172-31-16-198:~/assignment4$ git merge private
Merge made by the 'ort' strategy.
 master.txt | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
ubuntu@ip-172-31-16-198:~/assignment4$ ls
master.txt   public1.txt   public2.txt
ubuntu@ip-172-31-16-198:~/assignment4$ cat master.txt
Edited: this is new  master txt
ubuntu@ip-172-31-16-198:~/assignment4$ git checkout private
Switched to branch 'private'
ubuntu@ip-172-31-16-198:~/assignment4$ ls
master.txt
ubuntu@ip-172-31-16-198:~/assignment4$ git merge master
Updating 7ddb9bf..d9861c0
Fast-forward
 public1.txt | 0
 public2.txt | 0
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 public1.txt
 create mode 100644 public2.txt
ubuntu@ip-172-31-16-198:~/assignment4$ ls
master.txt   public1.txt   public2.txt
ubuntu@ip-172-31-16-198:~/assignment4$
```

i-0cf8082d9925f99d5 (git-mrng-12)

PublicIPs: 3.88.102.43   PrivateIPs: 172.31.16.198

CloudShell   Feedback   © 2024, Amazon Web Services, Inc. or its affiliates.   Privacy   Terms   Cookie preferences