**Problem:**
Creating a file share & sync solution using ownCloud and AWS

**Objective:**
The objective of this project is to deploy infrastructure to deploy Owncloud application support with MYSQL database leveraging AWS capabilities.

**Implementation Objective:**
· The ownCloud app should be installed in the public subnet and MUST be configured to access a new database called owncloud-db in the private subnet.

· Apache HTTP server should host ownCloud application in this subnet and must be configured with required PHP modules for ownCloud.

· The implementation will have two subnets (public and private) to separate web application server and database server.

· Custom VPC (owncloud-vpc) will have CIDR 10.0.0.0/16

· Public subnet will have CIDR 10.0.0.0/24 called owncloud-public-sn. Auto-assign IP address will be set as enabled.

· Private subnet will have CIDR 10.0.1.0/24 called owncloud-private-sn.

· Custom route tables (owncloud-public-rt) will be assigned to the Public subnet.

· Default route table (owncloud-private-rt) will be assigned to the Private subnet.

· owncloud-public-rt will have bi-directional internet route entry using Amazon internet gateway.

· owncloud-private-rt will have NAT gateway route entry to facilitate internet connectivity to private subnet.

· Two T2.micro EC2 instances will be used with Ubuntu 20.04.* LTS Amazon machine images.

· Two security groups will be created.

. owncloud-private-sg for private security group with ports SSH: 22 & MYSQL: 3306.

. owncloud-public-sg for public security group with ports SSH: 22 & HTTP: 80.

**Proposed Solution:**

ownCloud is an open source secure file sync and share solution which can help you gain control of this situation and enable you to create and deploy an enterprise scale file solution. ownCloud can run in our data centre or on a public cloud, with its servers, storage etc completely managed and controlled by your IT team and management in accordance with our company's governance and security requirements. We have decided to launch the ownCLoud service from AWS.

**PHASE 1: ARCHITECTURE**
**Architecture Diagram Description:**

**Internet:**
This represents the external network, including the public internet.

**Router or Gateway:**
This is the entry point to your Virtual Private Cloud (VPC), connecting your VPC to the Internet.

**VPC (Virtual Private Cloud):**
The VPC encompasses the entire cloud network environment.

**Public Subnet:**
This subnet is part of the VPC and is intended to be accessible from the Internet.
It hosts the ownCloud application and the Apache HTTP server.

**ownCloud Application:**
This component represents the ownCloud application, which provides file sharing and syncing services.
It's hosted on an EC2 instance within the public subnet.

**Apache HTTP Server:**
The Apache HTTP server runs on the same EC2 instance as the ownCloud application.
It serves web requests for the ownCloud application.

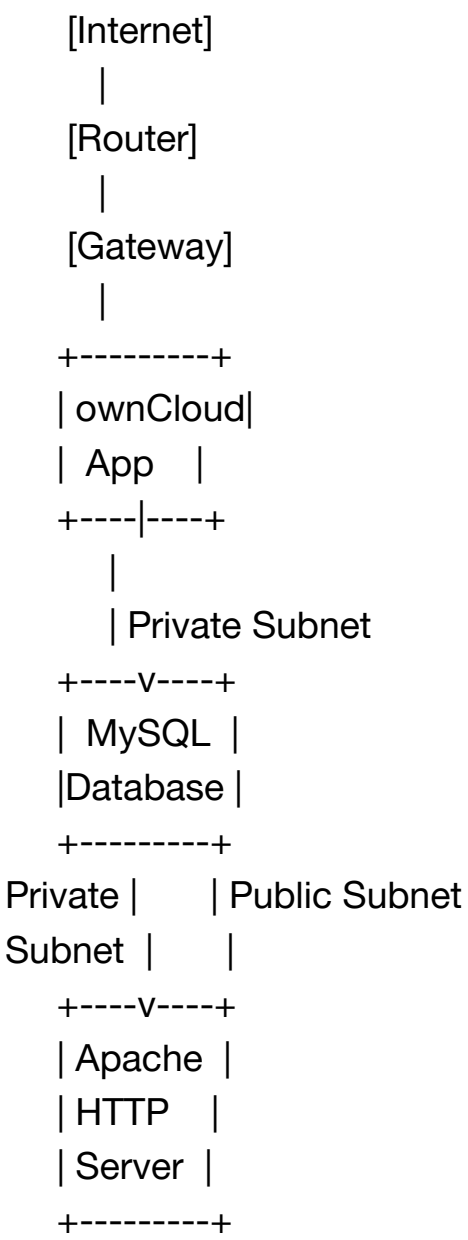
**Private Subnet:**
This subnet is also part of the VPC but is not directly accessible from the Internet.
It hosts the MySQL database.

**MySQL Database:**
This component represents the MySQL database used by ownCloud to store user data and configurations.
It's hosted on an Amazon RDS (Relational Database Service) instance within the private subnet.

**Security Groups:**
You would have security groups in place to control traffic flow between these components.
The security group for the MySQL database would only allow incoming traffic from the security group associated with the ownCloud application in the public subnet.

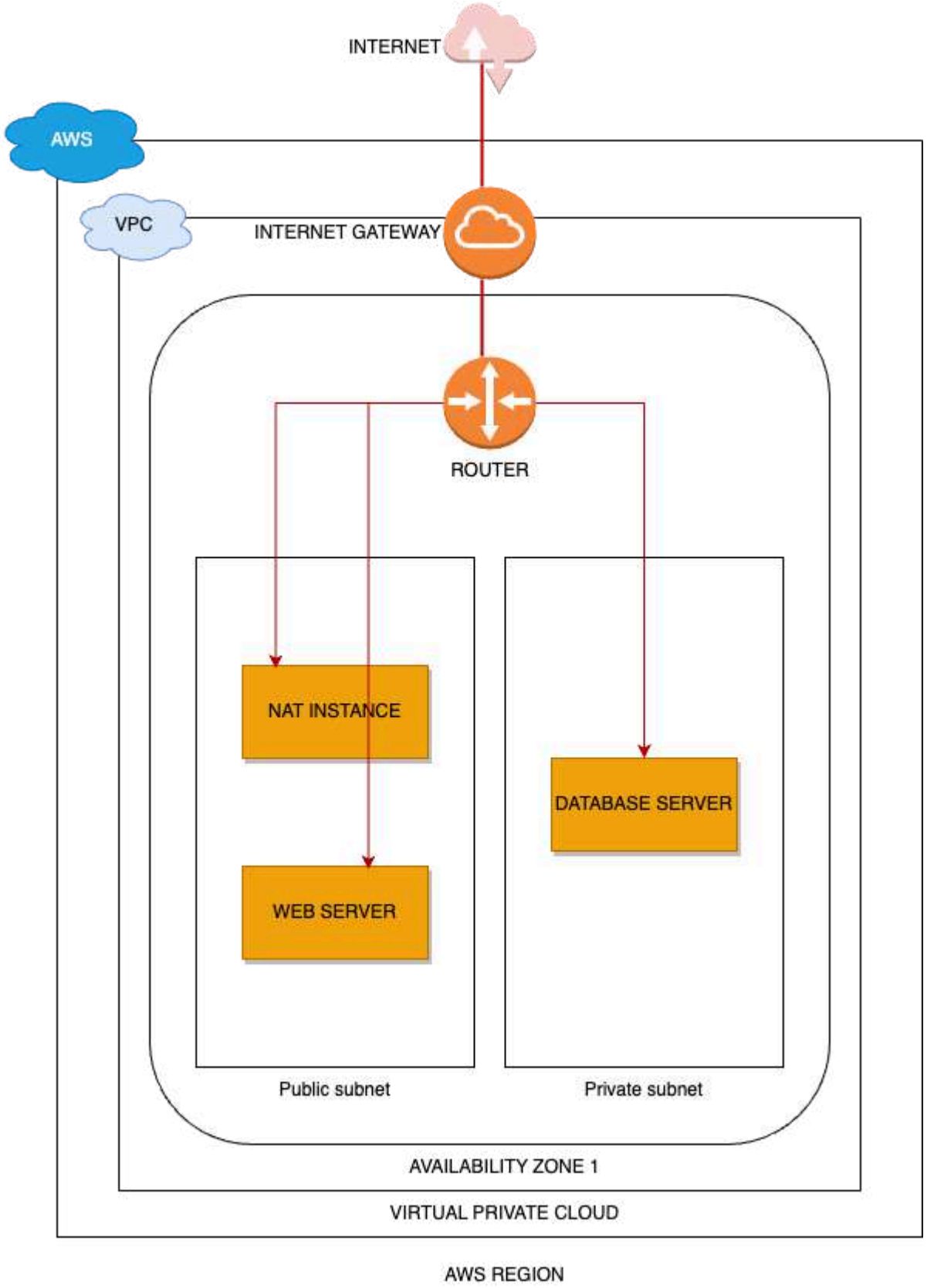
**Communication Arrows:**
Arrows indicate the flow of traffic between components.

**The flow of the process:**



**Network Planning and design considerations:**

**Basic plan:**



**MASTER PLAN:**

High Level Deployment Architecture:

Our primary goal is to create a highly secure and resilient deployment architecture. We have achieved the same by deploying all the services/resources except the app service in a private subnet. Also, we have configured multiple rules in security groups to limit the access from the external world. As you can see below the MySQL instance in the private subnet can only be accessed via the public subnet and hence the external world does not have any access to it.

We have configured NAT Gateway in order to allow EC2 instances from private subnets to access the internet. Ideally, we shall temporarily allow this access until required packages are installed.

Here are the primary steps that I have followed.

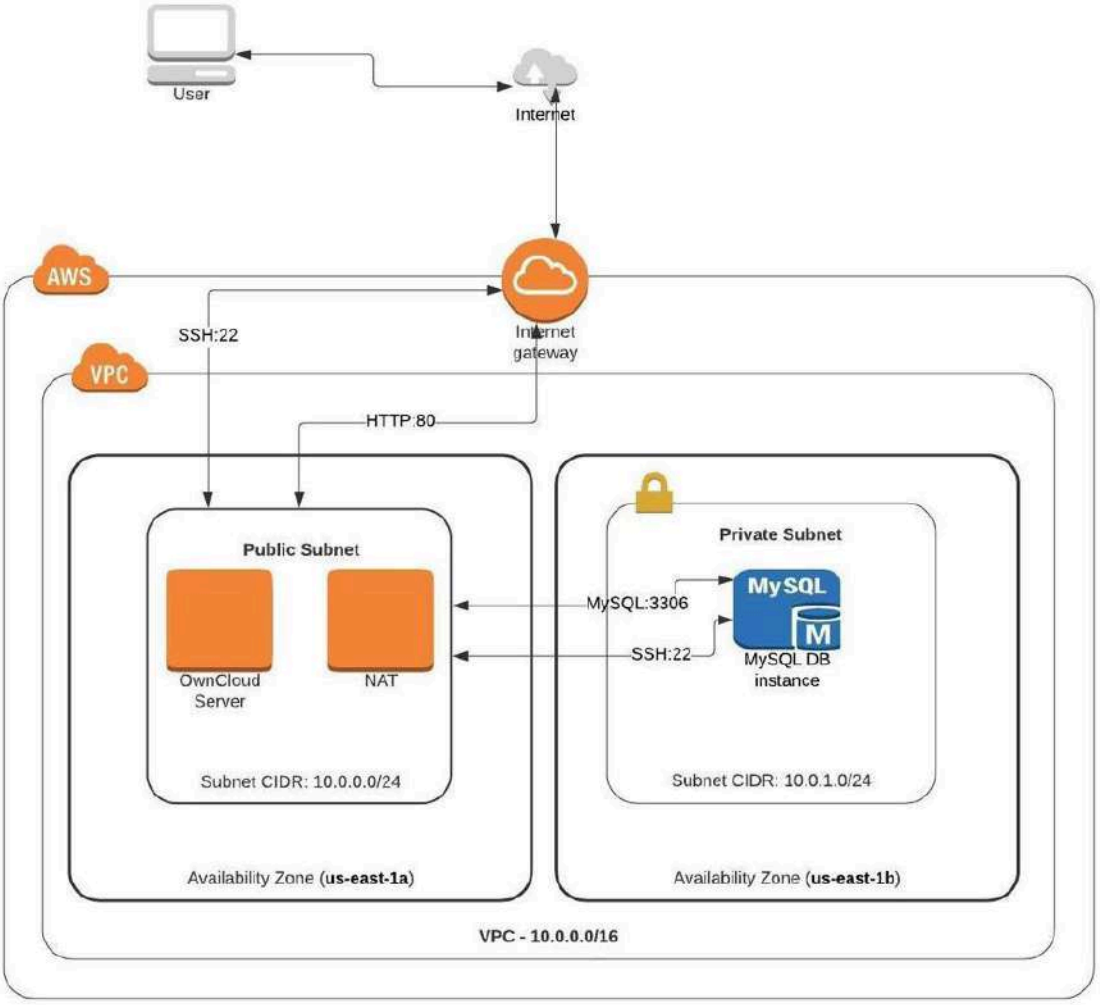
Keeping security in mind we have installed the MySQL server in EC2 instance in a private subnet.

In order to install the MySQL server the private EC2 instance needs outbound access to the internet. This is achieved by configuring NAT in the public subnet and then followed by adding it to the default route table.

Only two ports are open from My SQL server from the public subnet. Those ports are SSH: 22 and MySQL: 3306

OwnCLoud app server is installed in an EC2 instance in the public subnet. The app server has two ports exposed; SSH: 22 & HTTP: 80 NAT gateway is configured in the public subnet.

I could have created a NAT instance, but I tried to save the resources by using a NAT gateway.



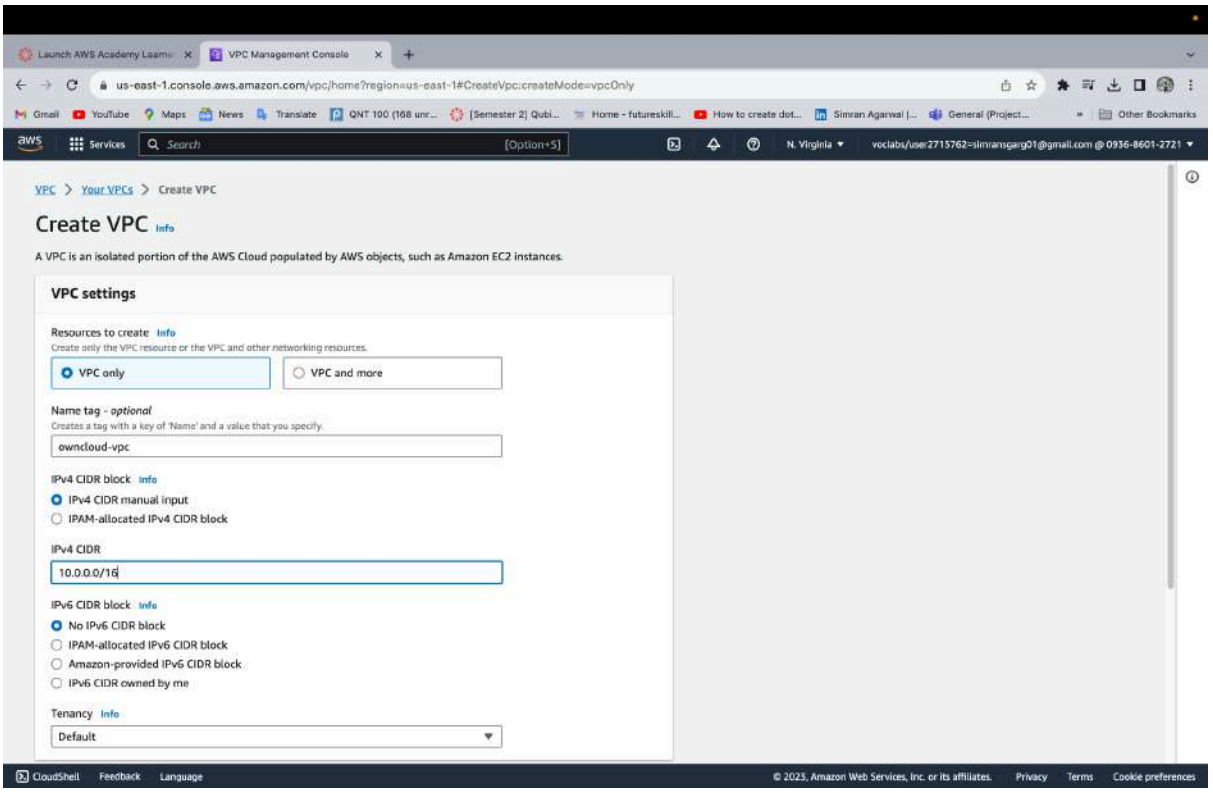

***note - for visual representation follow the photo gallery**

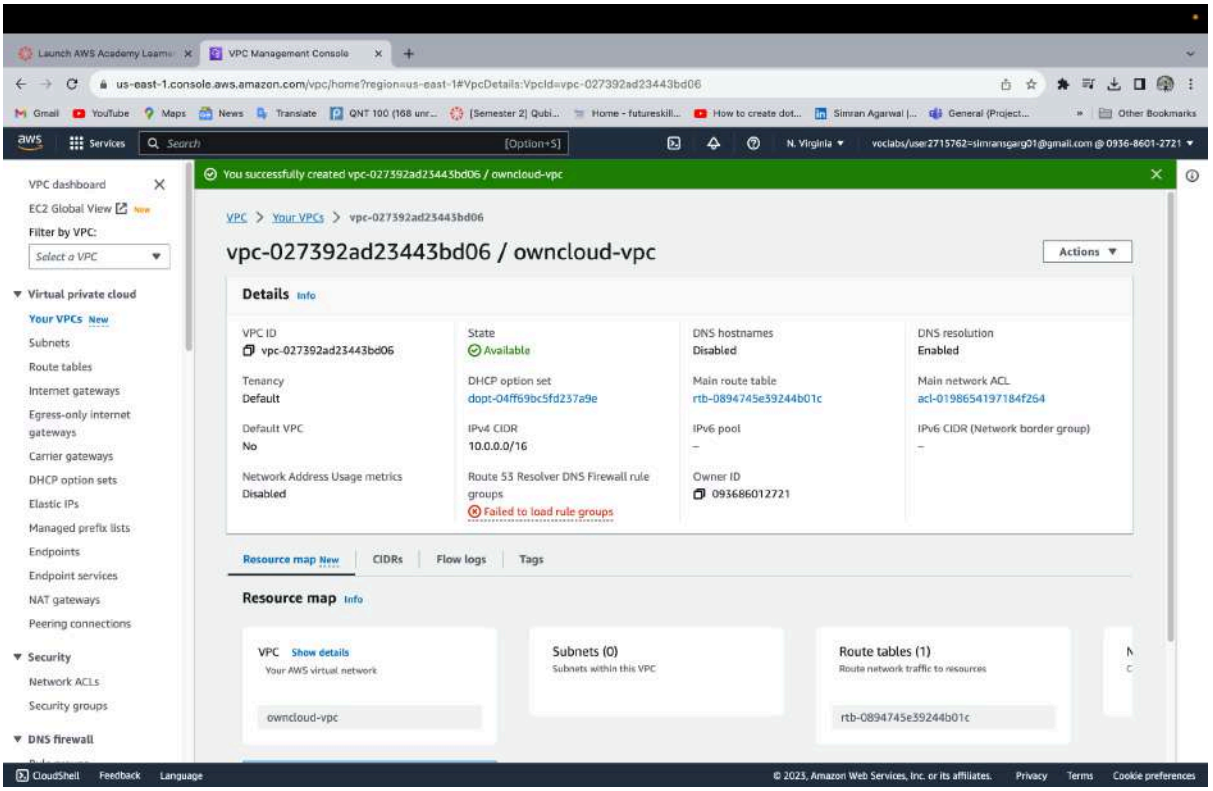
## PHASE 2: IMPLEMENTATION

### A. Create Custom VPC:

Create a custom VPC named "owncloud-vpc."
Implement two different subnets within this VPC: one public and one private. Define appropriate IP address ranges and routing tables for each subnet.

Create a custom VPC (owncloud-vpc) with CIDR 10.0.0.0/16




Launch AWS Academy Learner
VPC Management Console
us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#VpcDetails:VpcId=vpc-027392ad23443bd06
Gmail
YouTube
Maps
News
Translate
QNT 100 (168 unr...
[Semester 2] Qubi...
Home - futureskil...
How to create dot...
Simran Agarwal |...
General (Project...
Other Bookmarks
aws
Services
Search
[Option+S]
N. Virginia
voclabs/user2715762=simransgarg01@gmail.com @ 0936-8601-2721
VPC dashboard
EC2 Global View
New
Filter by VPC:
Select a VPC
Virtual private cloud
Your VPCs New
Subnets
Route tables
Internet gateways
Egress-only internet gateways
Carrier gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections
Security
Network ACLs
Security groups
DNS firewall
You successfully created vpc-027392ad23443bd06 / owncloud-vpc
VPC > Your VPCs > vpc-027392ad23443bd06
vpc-027392ad23443bd06 / owncloud-vpc
Actions
Details Info
VPC ID
vpc-027392ad23443bd06
State
Available
DNS hostnames
Disabled
DNS resolution
Enabled
Tenancy
Default
DHCP option set
dopt-04ff69bc5fd237a9e
Main route table
rtb-0894745e39244b01c
Main network ACL
acl-0198654197184f264
Default VPC
No
IPv4 CIDR
10.0.0.0/16
IPv6 pool
-
IPv6 CIDR (Network border group)
-
Network Address Usage metrics
Disabled
Route 53 Resolver DNS Firewall rule groups
Failed to load rule groups
Owner ID
093686012721
Resource map New
CIDRs
Flow logs
Tags
Resource map Info
VPC Show details
Your AWS virtual network
owncloud-vpc
Subnets (0)
Subnets within this VPC
Route tables (1)
Route network traffic to resources
rtb-0894745e39244b01c
CloudShell
Feedback
Language
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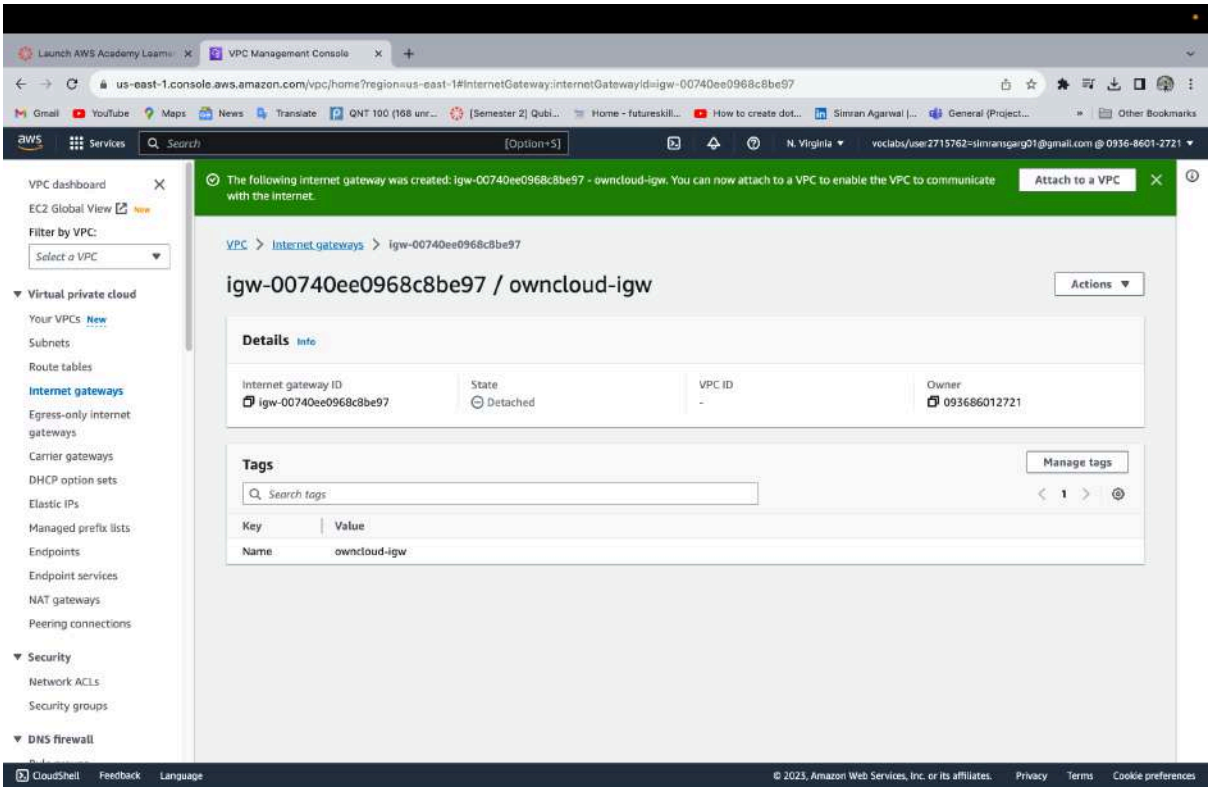
**B.Internet Gateway:**

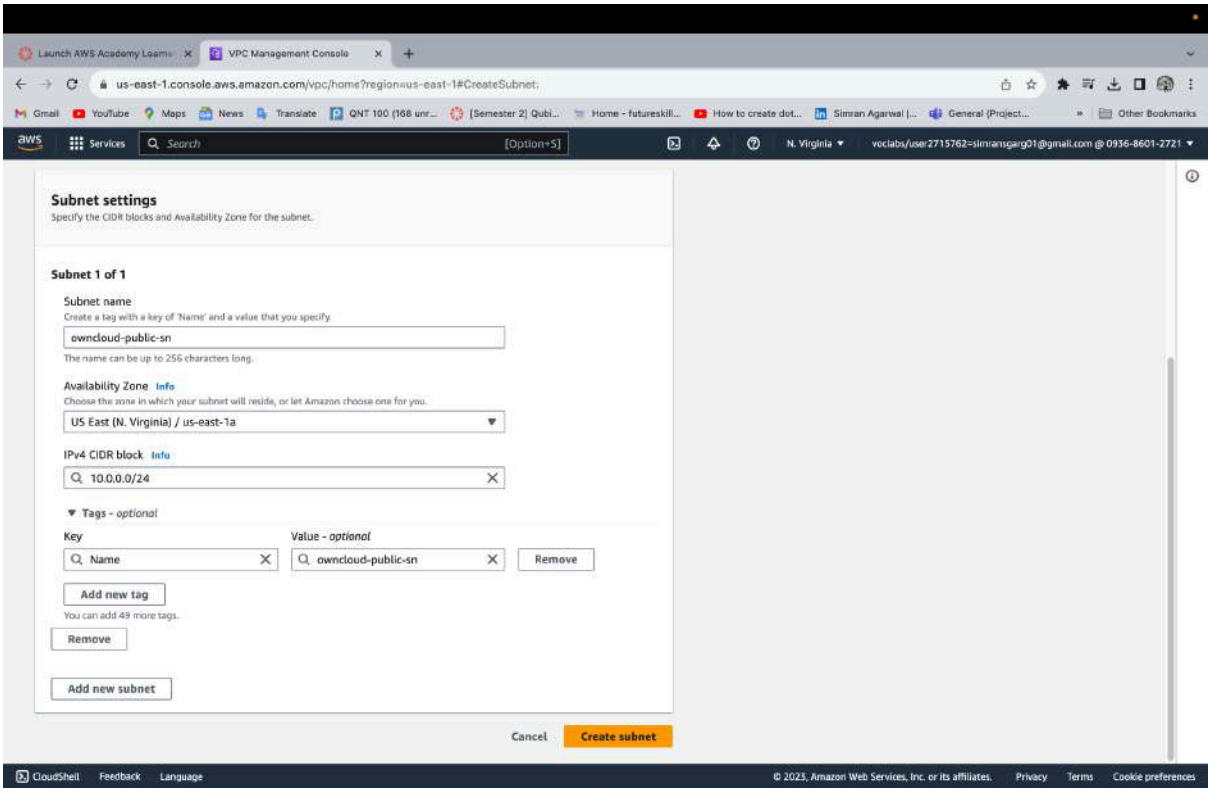
An Internet Gateway is a fundamental component in Amazon Web Services (AWS) that enables communication between resources within a Virtual Private Cloud (VPC) and the internet. It acts as a horizontally scaled, highly available VPC component that allows traffic to flow between the VPC and the public internet.

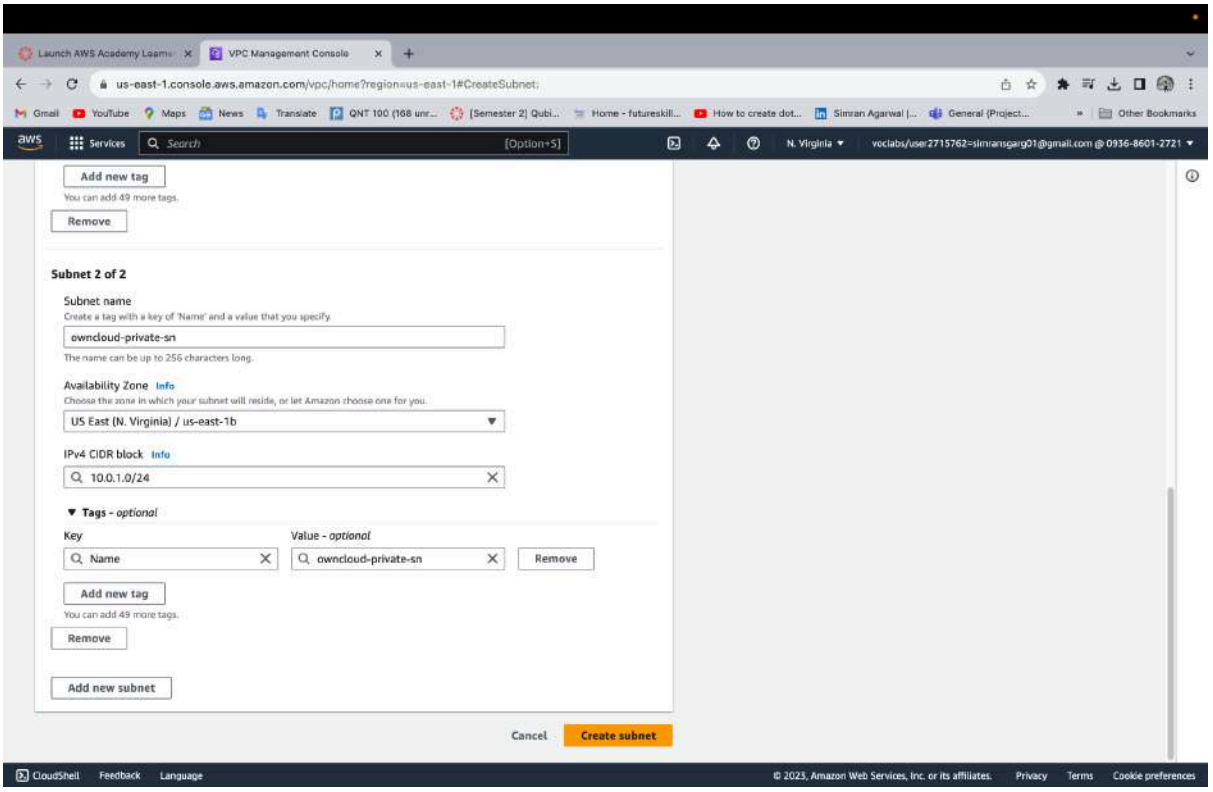
Create an internet gateway (owncloud-igw) and attach it to the VPC (owncloud-vpc).



## C. Subnets:

The two subnets - one public and one private - within the VPC.
Public subnet will have CIDR 10.0.0.0/24 called owncloud-public-sn.
Auto-assign IP address will be set as enabled.
Private subnet will have CIDR 10.0.1.0/24 called owncloud-private-sn.




Add new tag
You can add 49 more tags.
Remove
Subnet 2 of 2
Subnet name
Create a tag with a key of 'Name' and a value that you specify.
owncloud-private-sn
The name can be up to 256 characters long.
Availability Zone Info
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
US East (N. Virginia) / us-east-1b
IPv4 CIDR block Info
10.0.1.0/24
Tags - optional
Key
Value - optional
Name
owncloud-private-sn
Remove
Add new tag
You can add 49 more tags.
Remove
Add new subnet
Cancel
Create subnet
CloudShell
Feedback
Language
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Privacy
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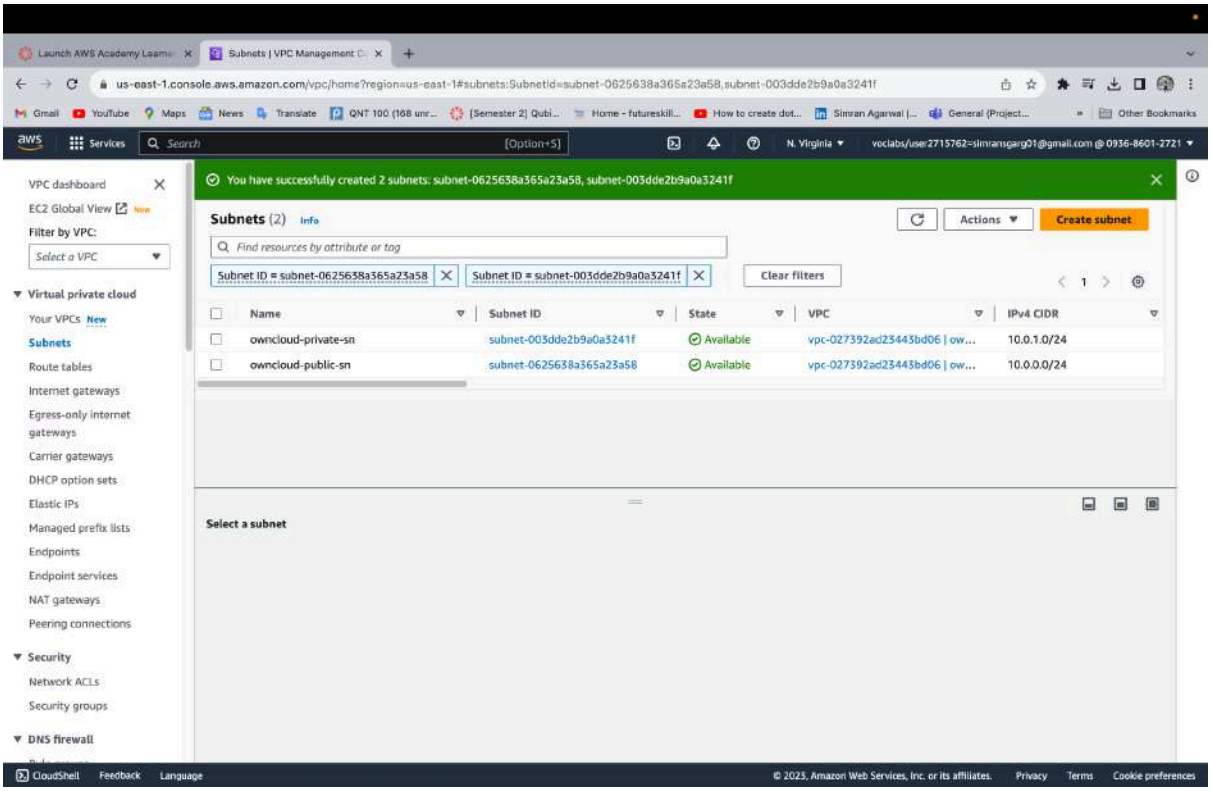
You have successfully created 2 subnets: subnet-0625638a365a23a58, subnet-003dde2b9a0a3241f
VPC dashboard
EC2 Global View
Filter by VPC:
Select a VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
Carrier gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections
Security
Network ACLs
Security groups
DNS firewall
Subnets (2) Info
Actions
Create subnet
Find resources by attribute or tag
Subnet ID = subnet-0625638a365a23a58
Subnet ID = subnet-003dde2b9a0a3241f
Clear filters
Name
Subnet ID
State
VPC
IPv4 CIDR
owncloud-private-sn
subnet-003dde2b9a0a3241f
Available
vpc-027392ad23443bd06 | ow...
10.0.1.0/24
owncloud-public-sn
subnet-0625638a365a23a58
Available
vpc-027392ad23443bd06 | ow...
10.0.0.0/24
Select a subnet
CloudShell
Feedback
Language
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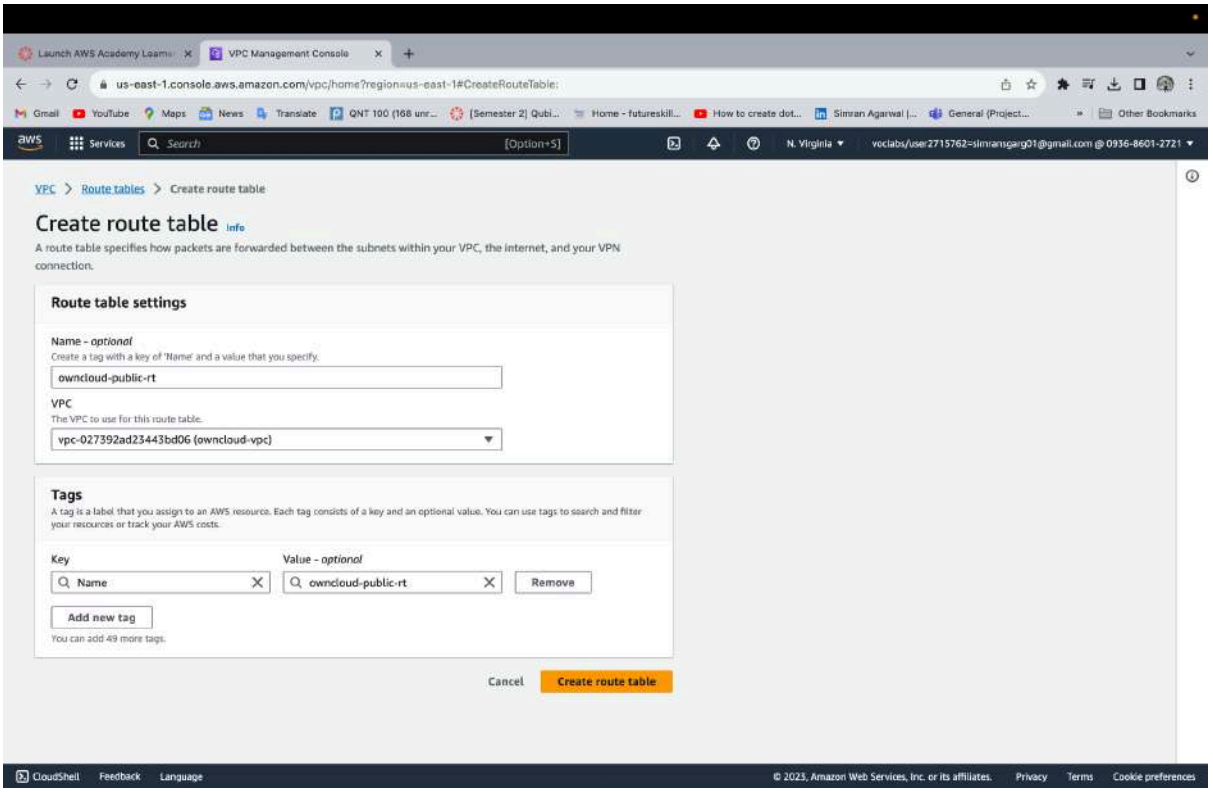
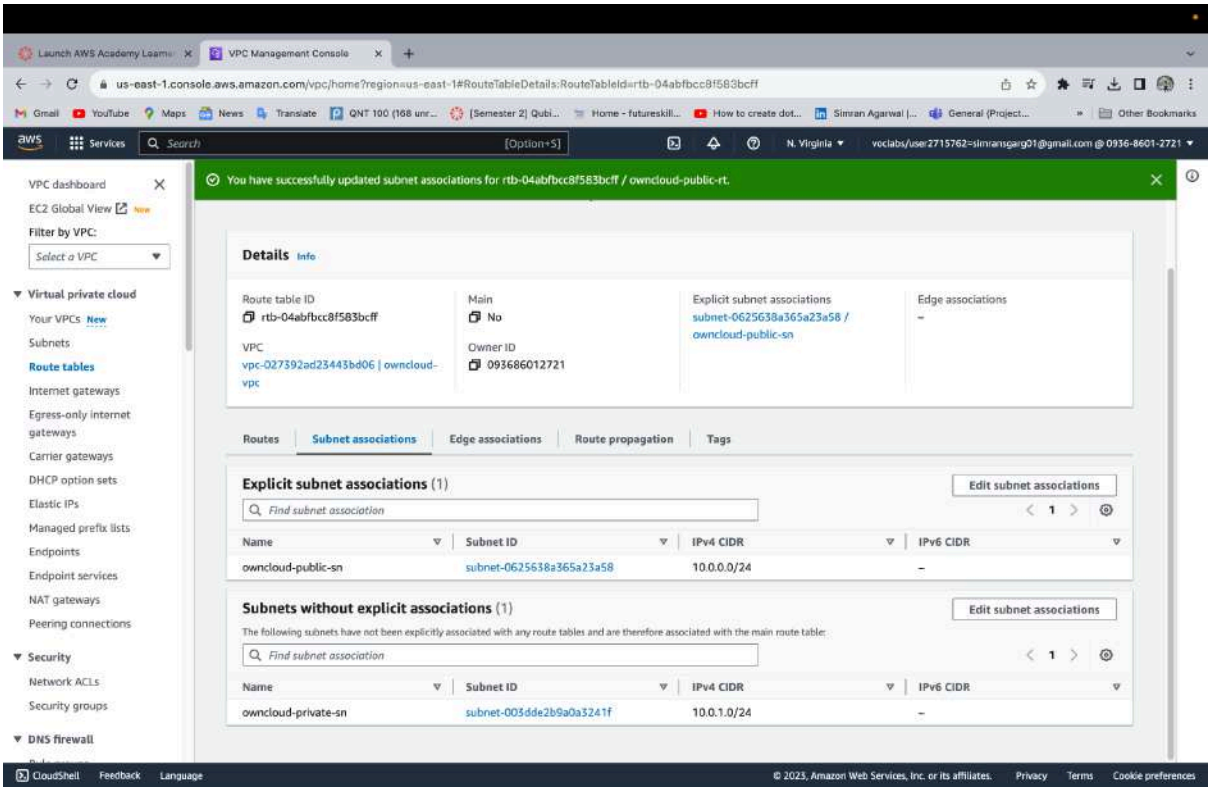
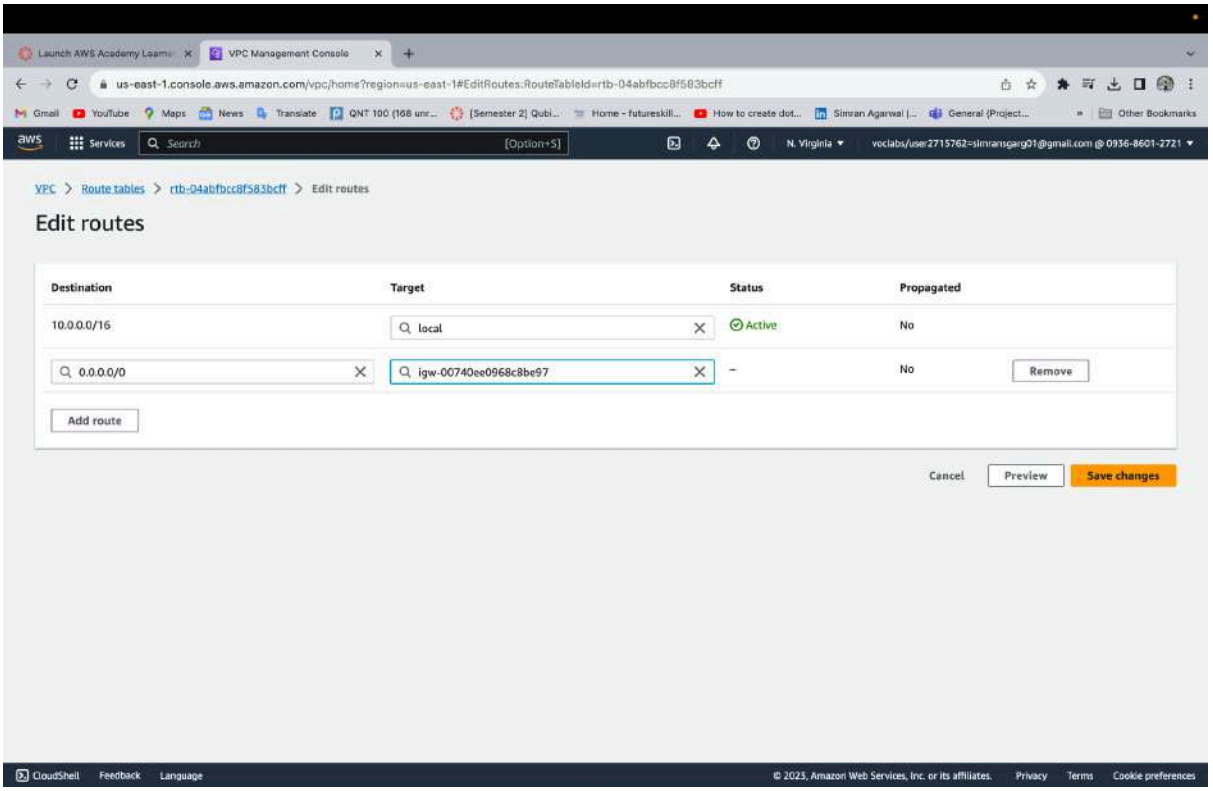
## D. ROUTE TABLES:

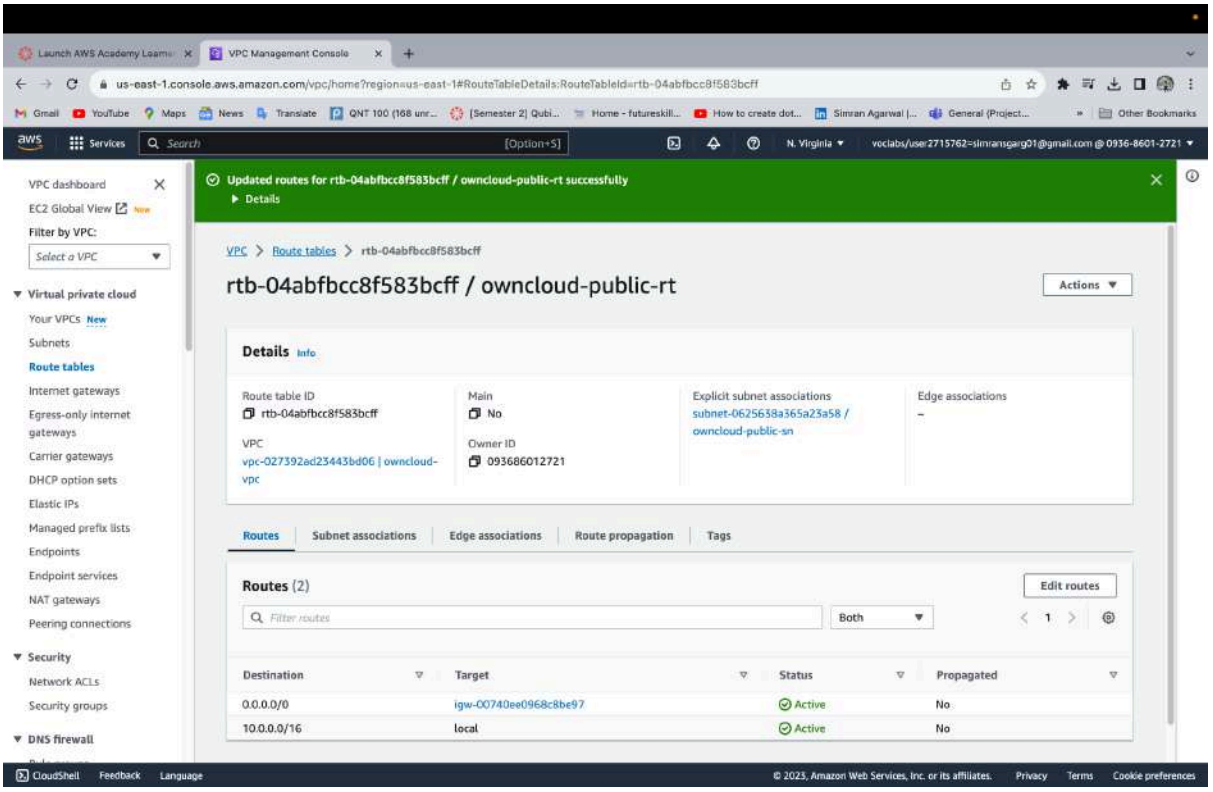
Route tables determine how traffic is directed within a VPC, and they are associated with one or more subnets.

Each subnet in a VPC must be associated with a specific route table. When you create a subnet, you can either choose the default VPC route table or create a custom route table and associate it with the subnet.




VPC Management Console
us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-04abfbcc8f583bcff
You have successfully updated subnet associations for rtb-04abfbcc8f583bcff / owncloud-public-rt.
Details
Route table ID
rtb-04abfbcc8f583bcff
Main
No
Explicit subnet associations
subnet-0625638a365a23a58 / owncloud-public-sn
Edge associations
-
VPC
vpc-027392ad23443bd06 | owncloud-vpc
Owner ID
093686012721
Routes
Subnet associations
Edge associations
Route propagation
Tags
Explicit subnet associations (1)
Edit subnet associations
Name
Subnet ID
IPv4 CIDR
IPv6 CIDR
owncloud-public-sn
subnet-0625638a365a23a58
10.0.0.0/24
Subnets without explicit associations (1)
Edit subnet associations
owncloud-private-sn
subnet-005dde2b9a0a3241f
10.0.1.0/24


VPC management Console
us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:RouteTableId=rtb-04abfbcc8f583bcff
VPC > Route tables > rtb-04abfbcc8f583bcff > Edit routes
Edit routes
Destination
Target
Status
Propagated
10.0.0.0/16
local
Active
No
0.0.0.0/0
igw-00740ee0968c8be97
-
No
Remove
Add route
Cancel
Preview
Save changes


Launch AWS Academy Learner
VPC Management Console
us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-04abfbcc8f583bcff
Services
Search
[Option+S]
N. Virginia
voclabs/user2715762=simransgarg01@gmail.com @ 0936-8601-2721
VPC dashboard
EC2 Global View
Filter by VPC:
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Carrier gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections
Security
Network ACLs
Security groups
DNS firewall
Updated routes for rtb-04abfbcc8f583bcff / owncloud-public-rt successfully
Details
VPC > Route tables > rtb-04abfbcc8f583bcff
rtb-04abfbcc8f583bcff / owncloud-public-rt
Actions
Details Info
Route table ID
rtb-04abfbcc8f583bcff
Main
No
Explicit subnet associations
subnet-0625638a365a23a58 / owncloud-public-sn
Edge associations
–
VPC
vpc-027392ad23443bd06 | owncloud-vpc
Owner ID
093686012721
Routes
Subnet associations
Edge associations
Route propagation
Tags
Routes (2)
Edit routes
Filter routes
Both
Destination
Target
Status
Propagated
0.0.0.0/0
igw-00740ee0968c8be97
Active
No
10.0.0.0/16
local
Active
No
CloudShell
Feedback
Language
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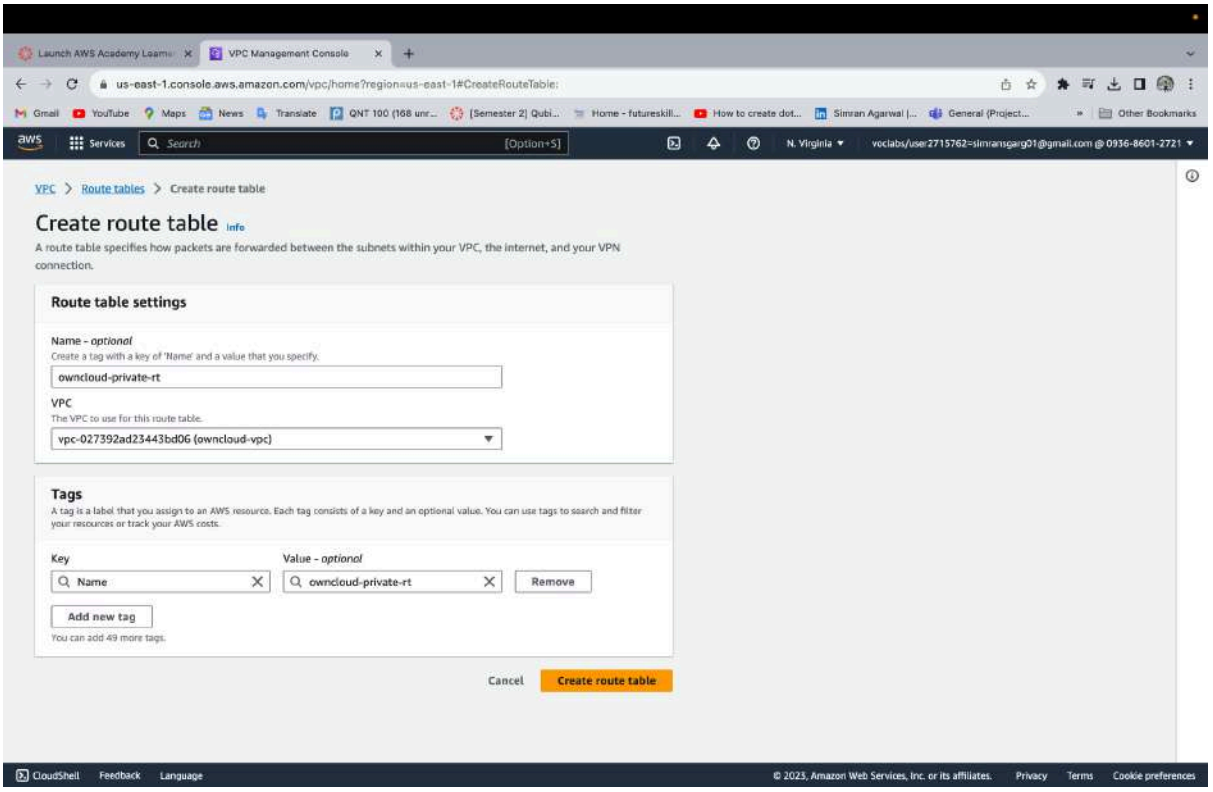
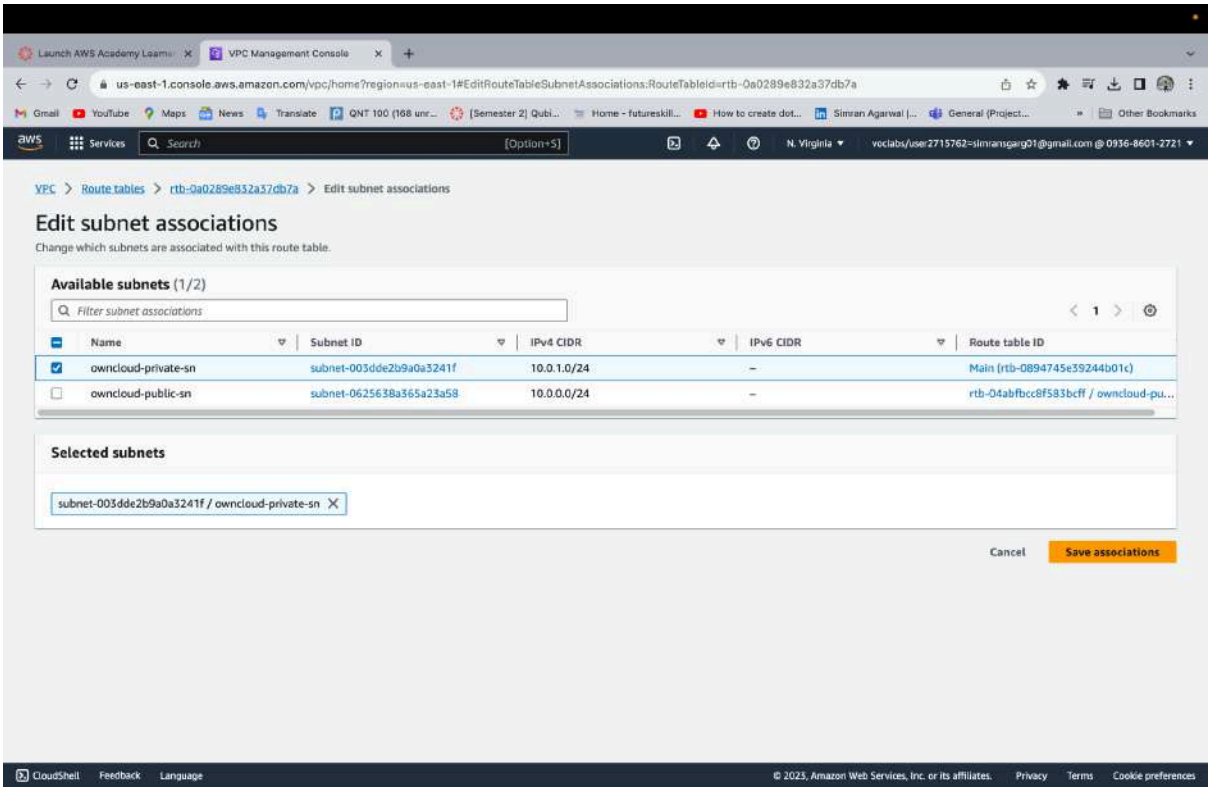
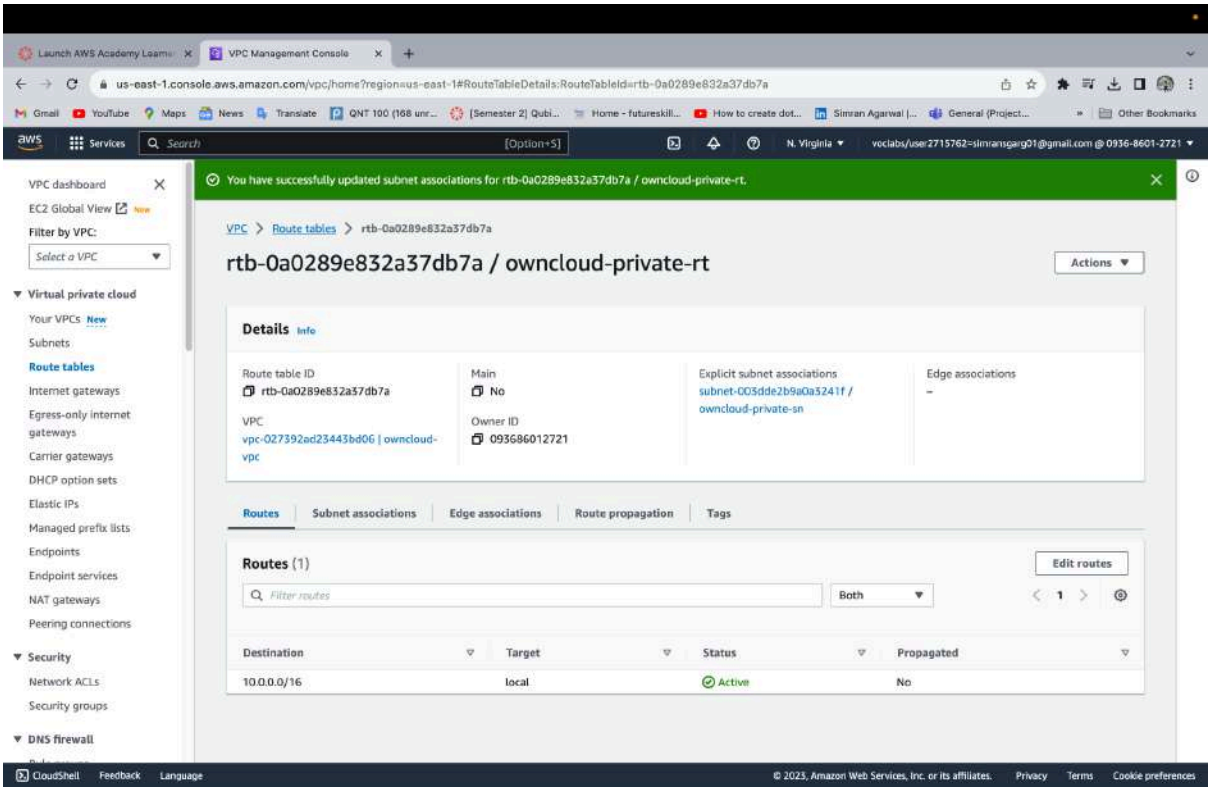

Launch AWS Academy Learner
VPC Management Console
us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateRouteTable:
Services
Search
[Option+S]
N. Virginia
voclabs/user2715762=simransgarg01@gmail.com @ 0936-8601-2721
VPC > Route tables > Create route table
Create route table Info
A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.
Route table settings
Name - optional
Create a tag with a key of 'Name' and a value that you specify.
owncloud-private-rt
VPC
The VPC to use for this route table.
vpc-027392ad23443bd06 (owncloud-vpc)
Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.
Key
Value - optional
Name
owncloud-private-rt
Remove
Add new tag
You can add 49 more tags.
Cancel
Create route table
CloudShell
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences



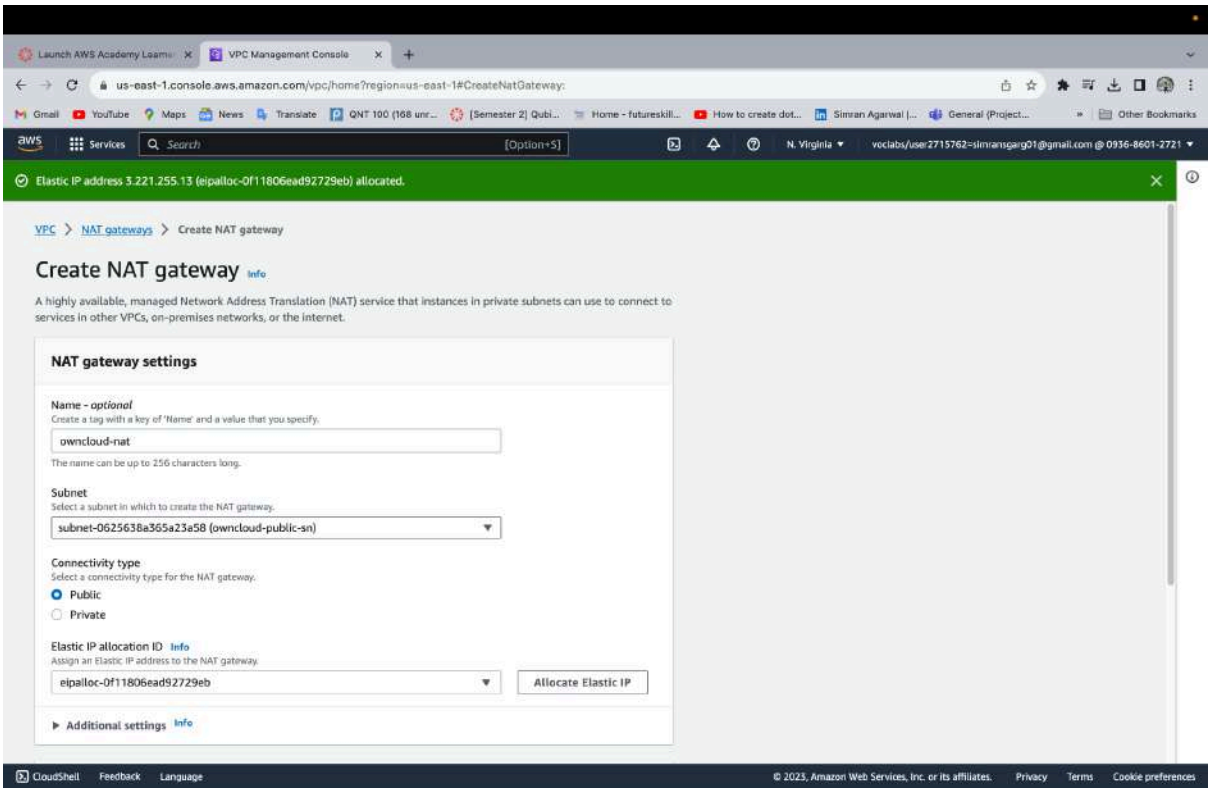




Private subnet needs to be connected to a public subnet in-order to establish a connection between the web application and the database. To establish this connection we will install the NAT Gateway on the Public Subnet and with the help of it we will route the connection to the

Private Subnet.

## E. NAT GATEWAY:

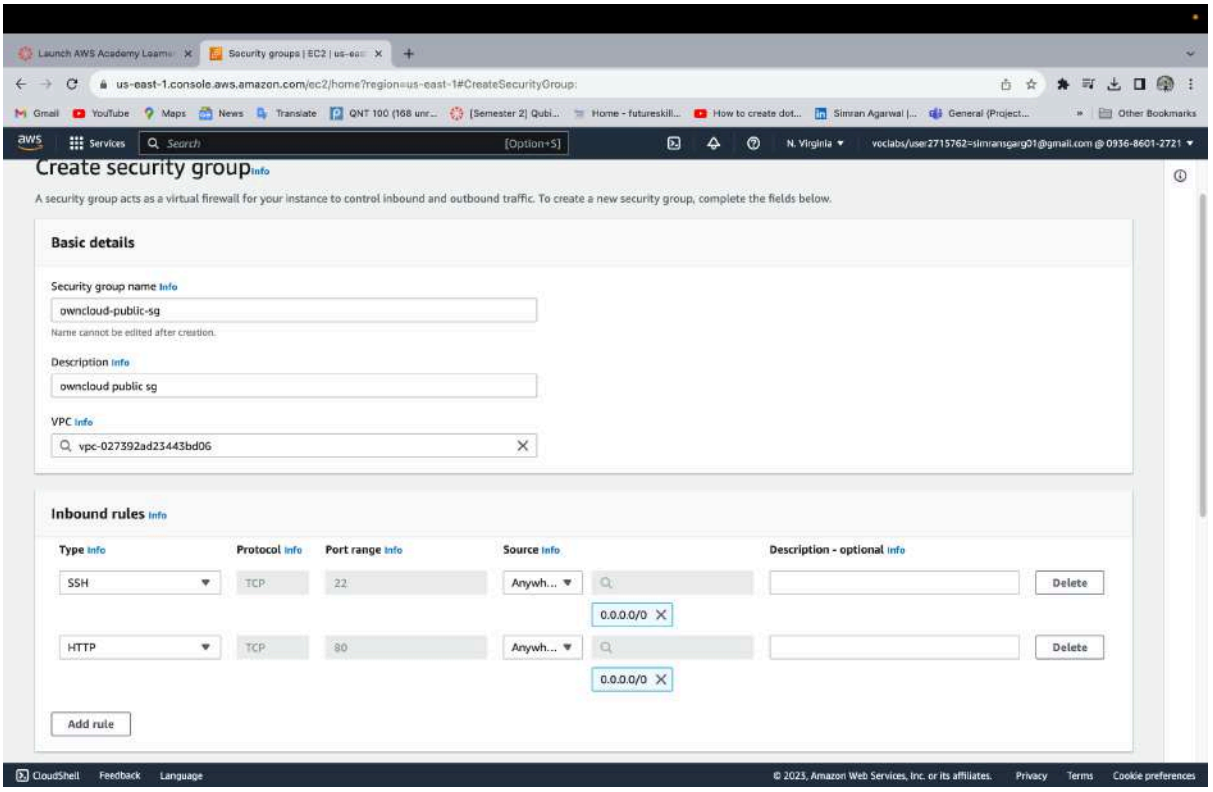
NAT Gateways are primarily used for handling outbound traffic from private subnets within your VPC.
Resources like EC2 instances in private subnets can send requests to the internet via the NAT Gateway to access services, retrieve updates, or download software packages.



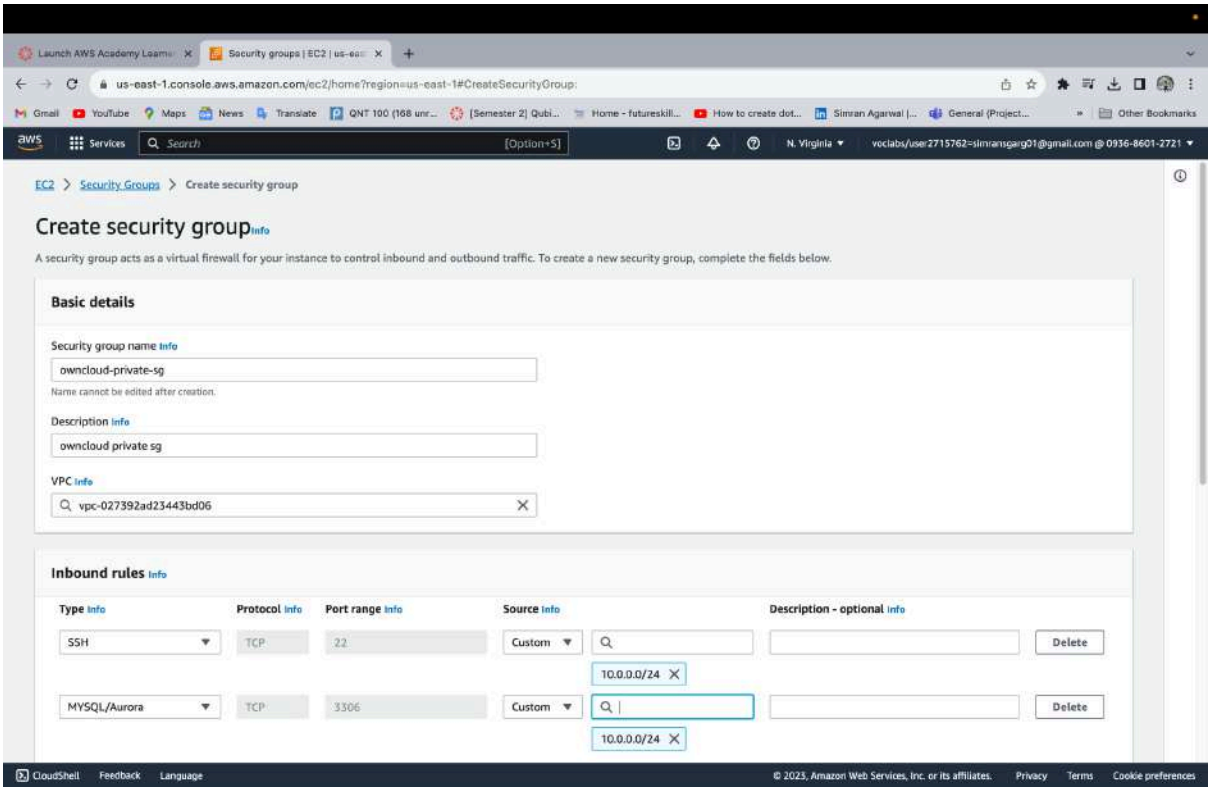

## F. SECURITY GROUPS:

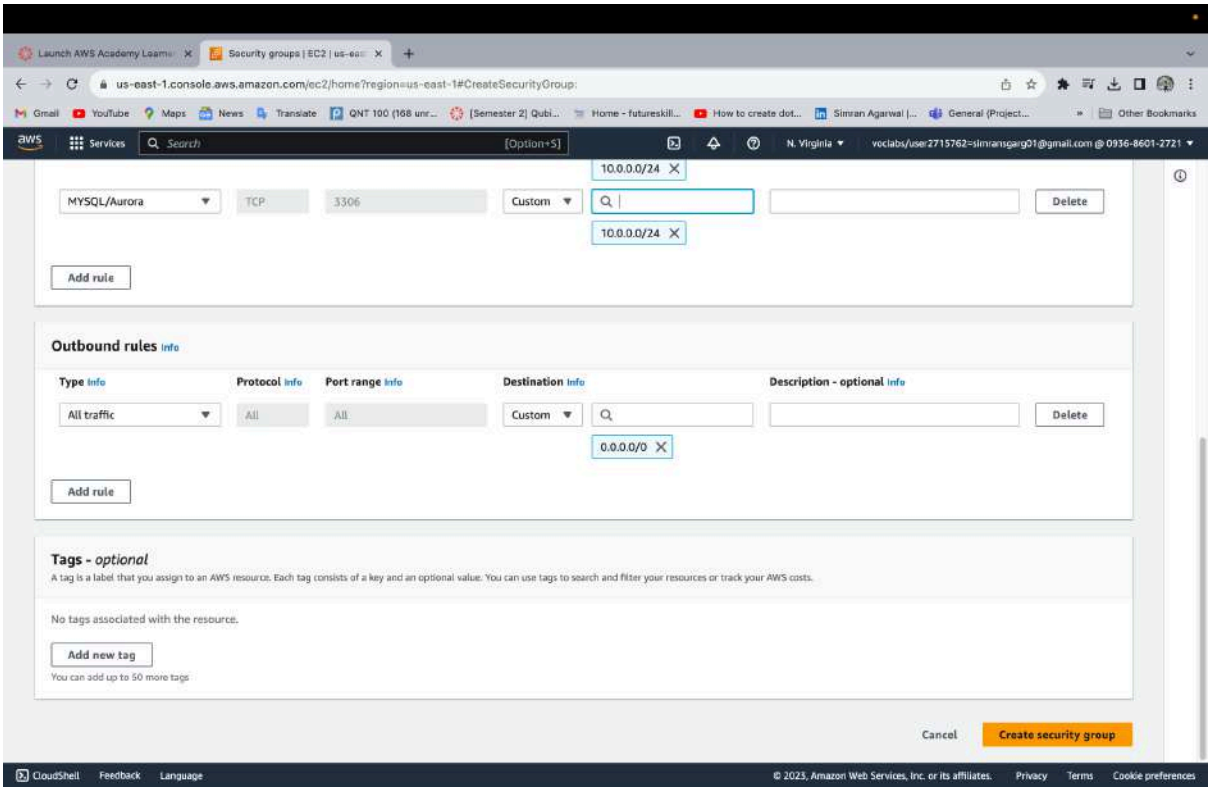
Security groups are rule-based, meaning you define rules that specify what traffic is allowed or denied. Each rule is associated with a specific security group.

Public sg:




Private sg:






## G. EC2 INSTANCES:

CONNECTION AND CONFIGURATION (OWNCLOUD):

We will follow the following procedure to install and configure owncloud on Public Subnet and MySQL on Private Subnet.

## G1. PUBLIC INSTANCE:

1. Connect to the public instance using SSH
   “sudo ssh -i keyx.pem ubuntu@3.81.73.98”

2. Now update and Upgrade the Ubuntu instance
   “sudo apt update”
   “sudo apt full-upgrade”

3. Install the Apache using the following command,
   “sudo apt-get install apache2”

4. Change the directory to /var/www/
   “cd /var/www/”

5. Download and extract the owncloud files.
   “sudo wget
   https://download.owncloud.com/server/stable/owncloud-complete-latest.tar.bz2 && \
   sudo tar -xjf owncloud-complete-latest.tar.bz2 && \
   sudo chown -R www-data. Owncloud”

6. Now run the following command to install the php and some of its modules.
   “sudo apt install php libapache2-mod-php php-mysql”

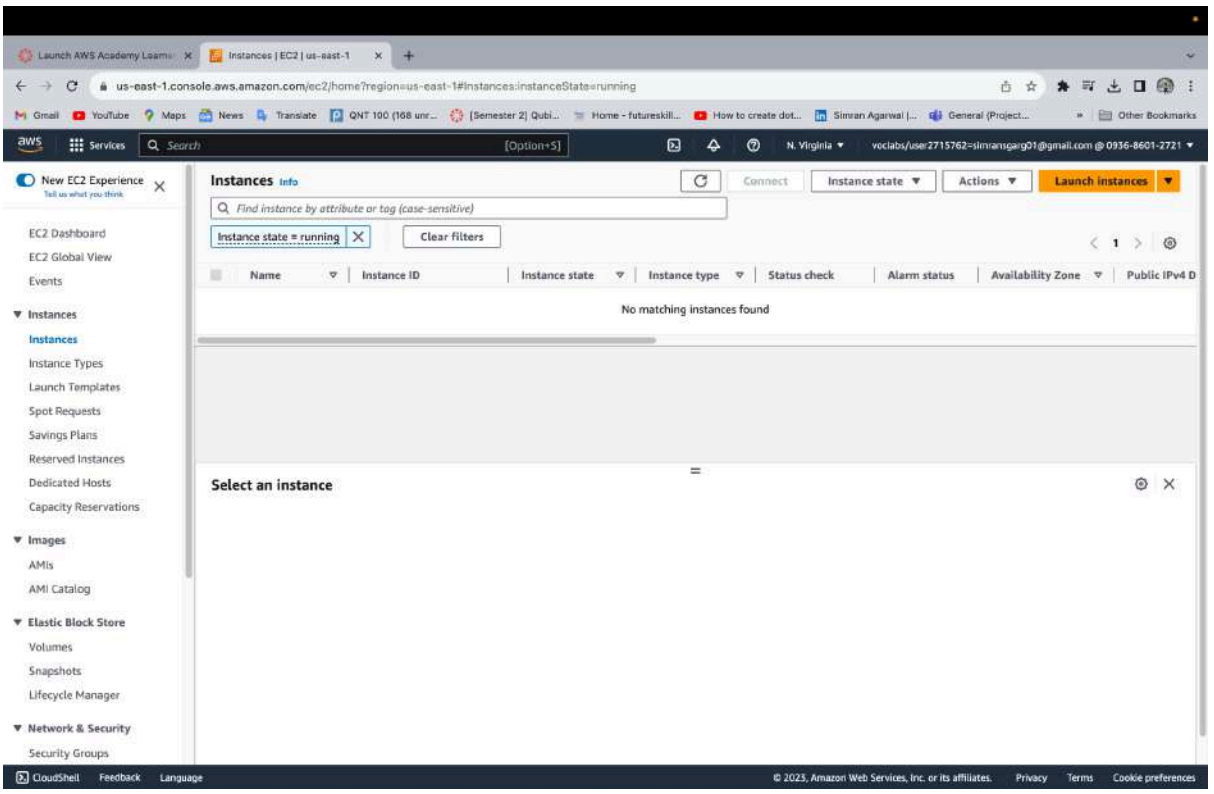
7. Make index.php as the default first load page by editing the /etc/apache2/mods-enabled/dir.conf file and make the sequence of index.php to be the first.

8. Now update the directory root path by editing edit /etc/apache2/sites-enabled/000-default.conf file and change /var/www/html to /var/www/owncloud.

9. Install the remaining modules of php
   “sudo apt install php-bz2 php-curl php-gd php-imagick php-intl php-mbstring php-xml php-zip”

10. Restart the apache server
    “sudo systemctl reload apache2”

11. Now if you try opening the public ip of the public instance, it will load up the owncloud admin account creation page.
    But configuring the private instance is still pending, we need to install and configure mysql inorder to use the web application.


Launch AWS Academy Learner
Instances | EC2 | us-east-1
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running
Services
Search
[Option+S]
N. Virginia
voclabs/user2715762=simransgarg01@gmail.com @ 0936-8601-2721
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Instances Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 D
No matching instances found
Select an instance
CloudShell
Feedback
Language
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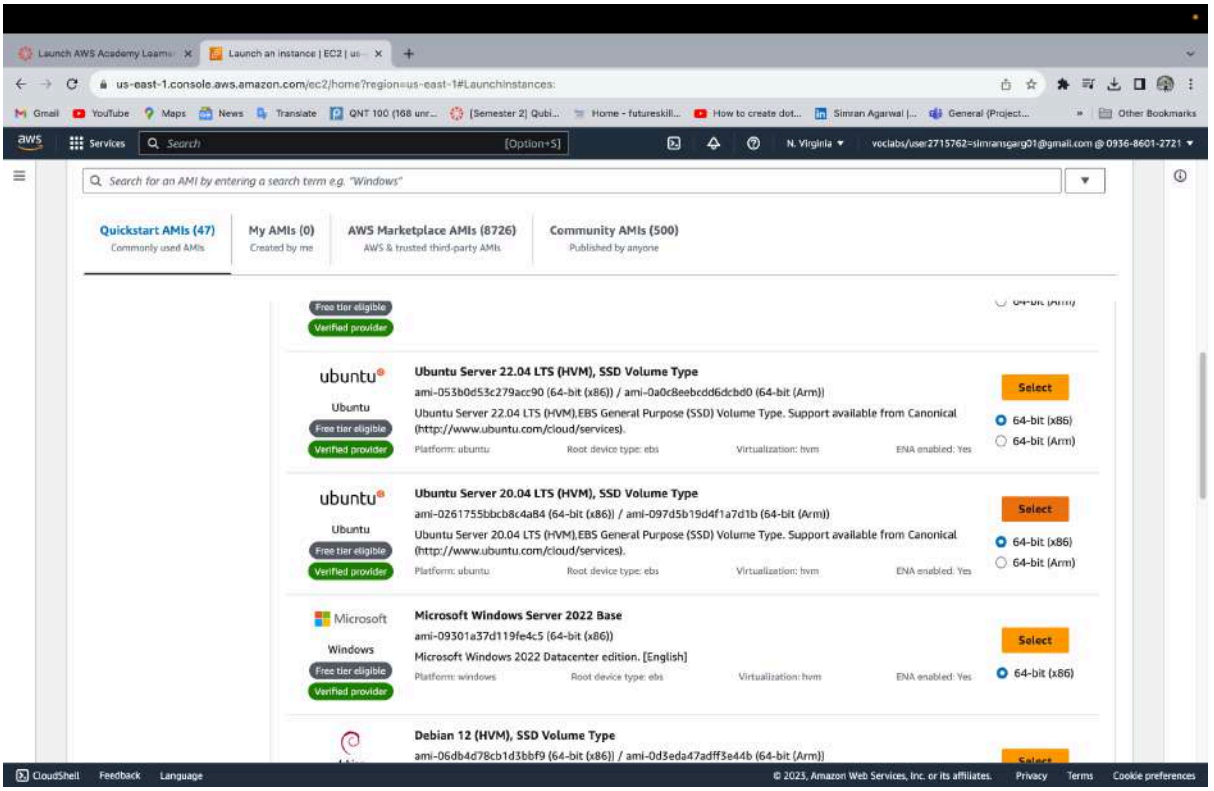
Launch AWS Academy Learner
Launch an instance | EC2 | us-east-1
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Search for an AMI by entering a search term e.g. "Windows"
Quickstart AMIs (47)
Commonly used AMIs
My AMIs (0)
Created by me
AWS Marketplace AMIs (8726)
AWS & trusted third-party AMIs
Community AMIs (500)
Published by anyone
Free tier eligible
Verified provider
Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
ami-053b0d53c279acc90 (64-bit (x86)) / ami-0a0c8eebcdd6dcbd0 (64-bit (Arm))
Ubuntu Server 22.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).
Platform: ubuntu
Root device type: ebs
Virtualization: hvm
ENA enabled: Yes
Select
64-bit (x86)
64-bit (Arm)
Ubuntu Server 20.04 LTS (HVM), SSD Volume Type
ami-0261755bbcb8c4a84 (64-bit (x86)) / ami-097d5b19d4f1a7d1b (64-bit (Arm))
Ubuntu Server 20.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).
Microsoft Windows Server 2022 Base
ami-09301a37d119fe4c5 (64-bit (x86))
Microsoft Windows 2022 Datacenter edition. [English]
Platform: windows
Debian 12 (HVM), SSD Volume Type
ami-06db4d78cb1d3bbf9 (64-bit (x86)) / ami-0d3eda47adff3e44b (64-bit (Arm))
CloudShell
Feedback
Language
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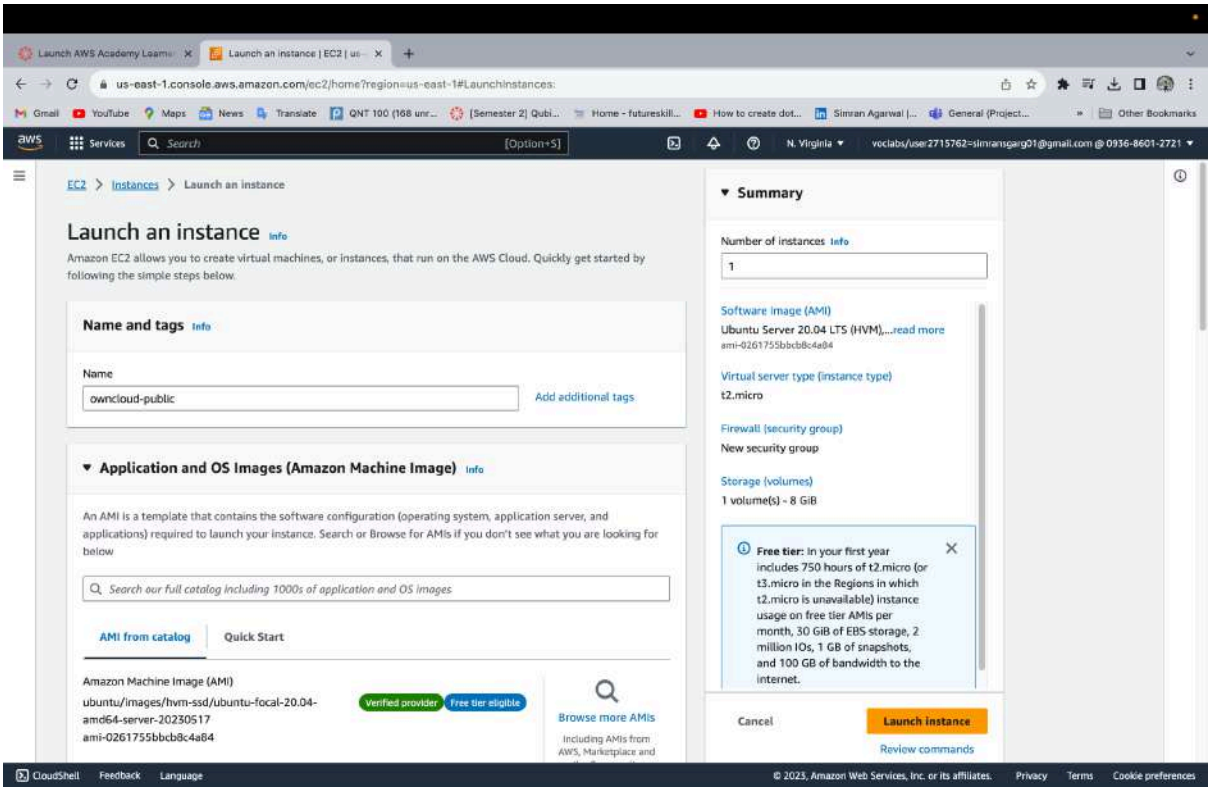
Launch AWS Academy Learne
Launch an instance | EC2 | us-
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Gmail
YouTube
Maps
News
Translate
QNT 100 (168 unr...
[Semester 2] Qubi...
Home - futureskill...
How to create dot...
Simran Agarwal |...
General (Project...
Other Bookmarks
aws
Services
Search
[Option+S]
N. Virginia
voclabs/user2715762=simransgarg01@gmail.com @ 0936-8601-2721
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
owncloud-public
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
AMI from catalog
Quick Start
Amazon Machine Image (AMI)
ubuntu/images/hvm-ssd/ubuntu-focal-20.04-amd64-server-20230517
ami-0261755bbcb8c4a84
Verified provider
Free tier eligible
Browse more AMIs
Including AMIs from AWS, Marketplace and
Summary
Number of instances Info
1
Software Image (AMI)
Ubuntu Server 20.04 LTS (HVM),...read more
ami-0261755bbcb8c4a84
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
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 which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Review commands
CloudShell
Feedback
Language
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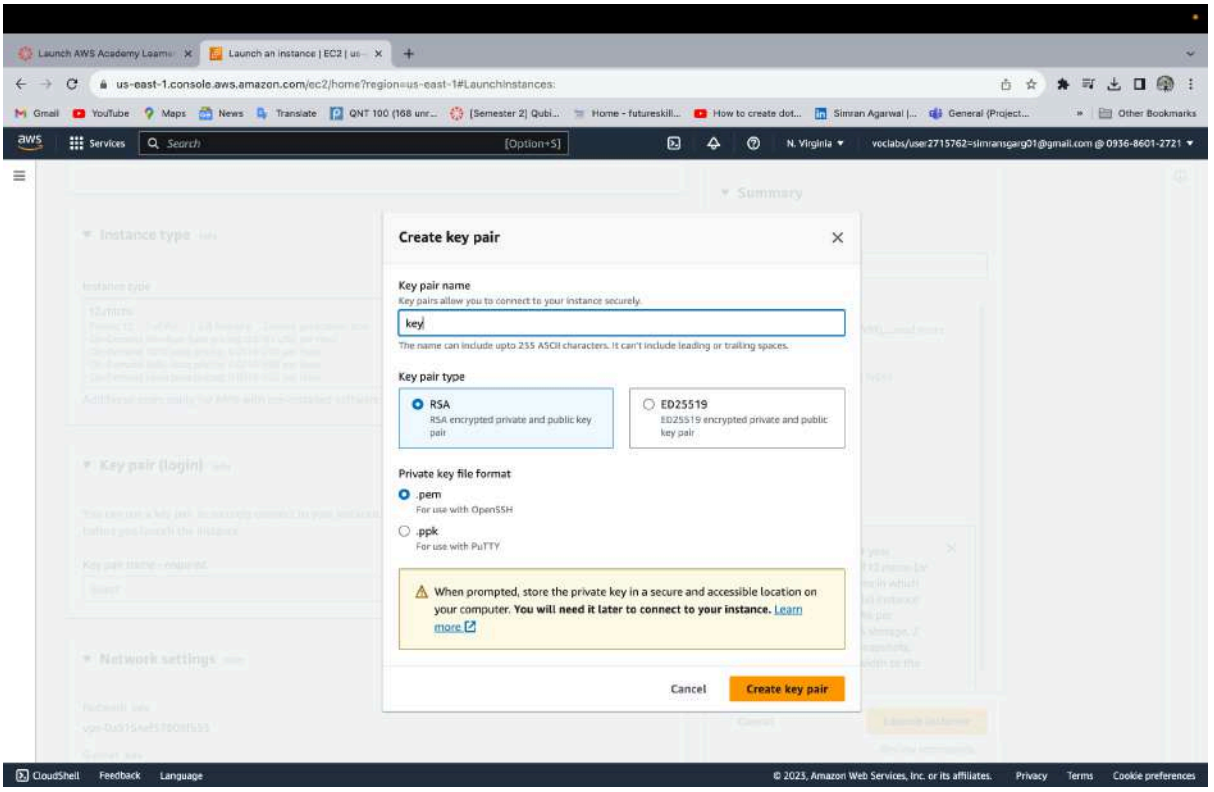
Launch AWS Academy Learne
Launch an instance | EC2 | us-
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Gmail
YouTube
Maps
News
Translate
QNT 100 (168 unr...
[Semester 2] Qubi...
Home - futureskill...
How to create dot...
Simran Agarwal |...
General (Project...
Other Bookmarks
aws
Services
Search
[Option+S]
N. Virginia
voclabs/user2715762=simransgarg01@gmail.com @ 0936-8601-2721
Create key pair
Key pair name
Key pairs allow you to connect to your instance securely.
key
The name can include upto 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
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. Learn more
Cancel
Create key pair
CloudShell
Feedback
Language
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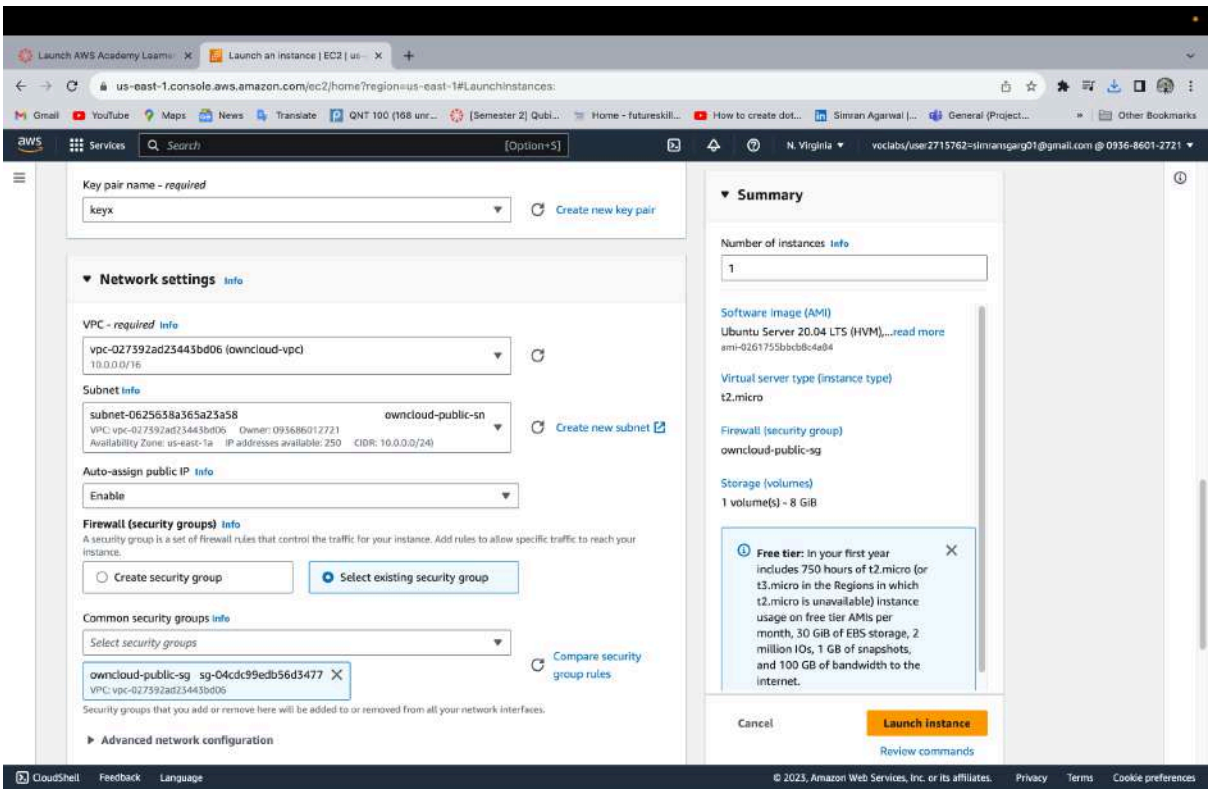
Launch AWS Academy Learne
Launch an instance | EC2 | us-
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Gmail YouTube Maps News Translate QNT 100 (168 unr... [Semester 2] Qubi... Home - futureskill... How to create dot... Simran Agarwal |... General (Project... Other Bookmarks
aws Services Search [Option+S] N. Virginia voclabs/user2715762=simransarg01@gmail.com @ 0936-8601-2721
Key pair name - required
keyx
Create new key pair
Network settings Info
VPC - required Info
vpc-027392ad23443bd06 (owncloud-vpc)
10.0.0.0/16
Subnet Info
subnet-0625638a365a23a58 owncloud-public-sn
VPC: vpc-027392ad23443bd06 Owner: 093686012721
Availability Zone: us-east-1a IP addresses available: 250 CIDR: 10.0.0.0/24
Create new subnet
Auto-assign public IP Info
Enable
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
owncloud-public-sg sg-04cdc99edb56d3477
VPC: vpc-027392ad23443bd06
Compare security group rules
Security groups that you add or remove here will be added to or removed from all your network interfaces.
Advanced network configuration
Summary
Number of instances Info
1
Software Image (AMI)
Ubuntu Server 20.04 LTS (HVM),...read more
ami-0261755bbcb8c4a84
Virtual server type (instance type)
t2.micro
Firewall (security group)
owncloud-public-sg
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 which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Review commands
CloudShell Feedback Language
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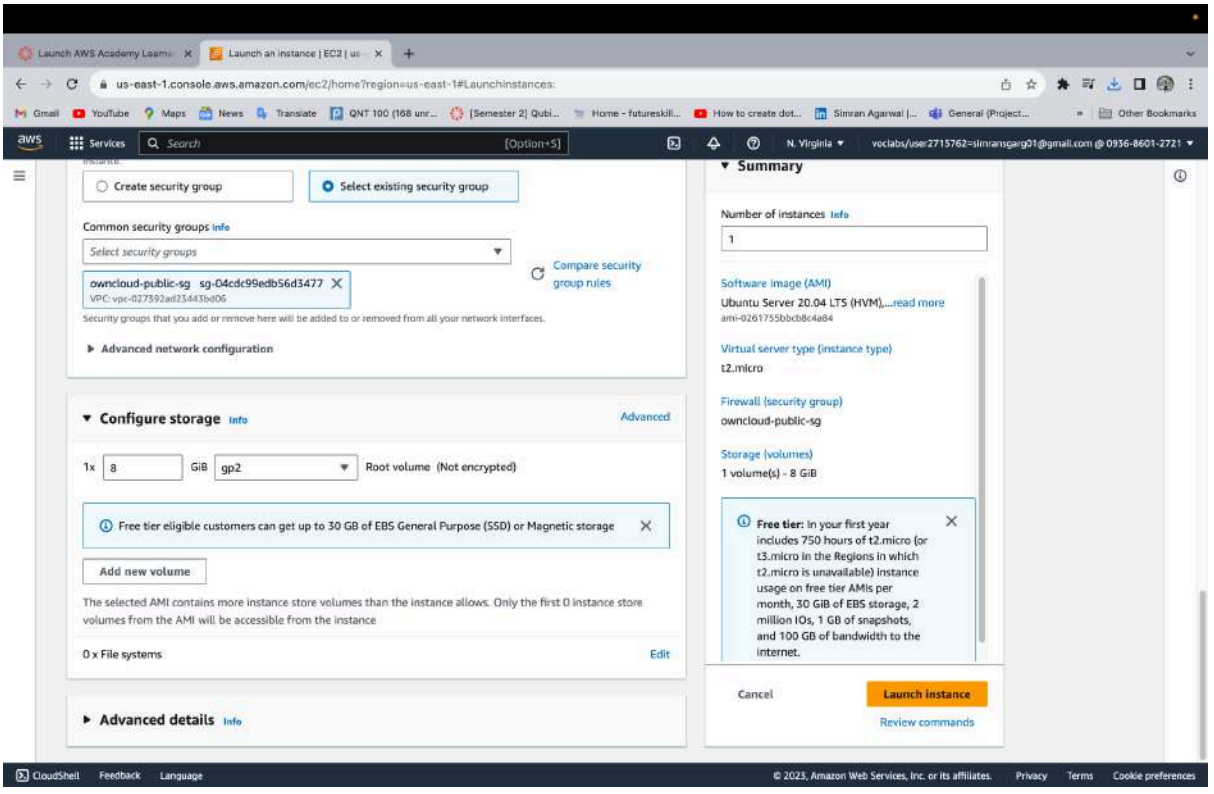
Launch AWS Academy Learne
Launch an instance | EC2 | us-
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Gmail YouTube Maps News Translate QNT 100 (168 unr... [Semester 2] Qubi... Home - futureskill... How to create dot... Simran Agarwal |... General (Project... Other Bookmarks
aws Services Search [Option+S] N. Virginia voclabs/user2715762=simransarg01@gmail.com @ 0936-8601-2721
Create security group
Select existing security group
Common security groups Info
Select security groups
owncloud-public-sg sg-04cdc99edb56d3477
VPC: vpc-027392ad23443bd06
Compare security group rules
Security groups that you add or remove here will be added to or removed from all your network interfaces.
Advanced network configuration
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
The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance
0 x File systems
Edit
Advanced details Info
Summary
Number of instances Info
1
Software Image (AMI)
Ubuntu Server 20.04 LTS (HVM),...read more
ami-0261755bbcb8c4a84
Virtual server type (instance type)
t2.micro
Firewall (security group)
owncloud-public-sg
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 which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Review commands
CloudShell Feedback Language
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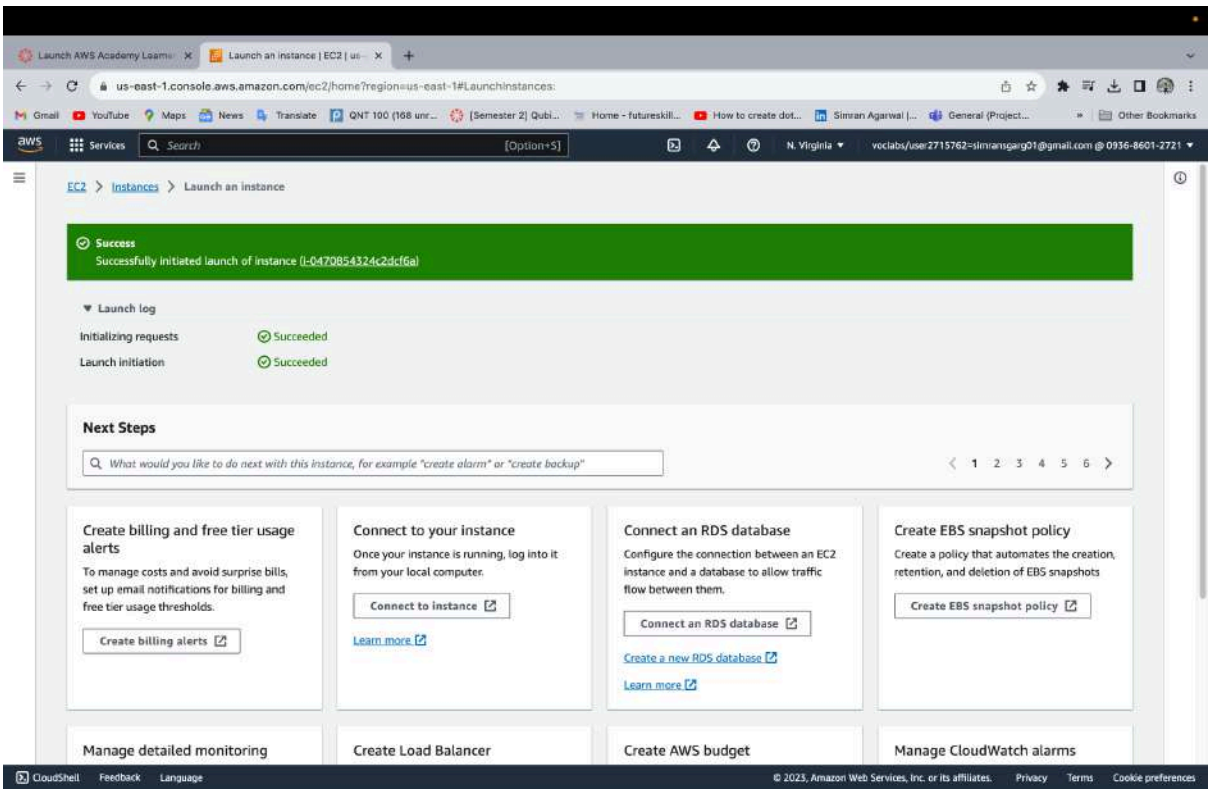
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Launchinstances:
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-0470854324c2dcf6a)
Launch log
Initializing requests
Succeeded
Launch initiation
Succeeded
Next Steps
What would you like to do next with 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
Manage detailed monitoring
Create Load Balancer
Create AWS budget
Manage CloudWatch alarms
CloudShell
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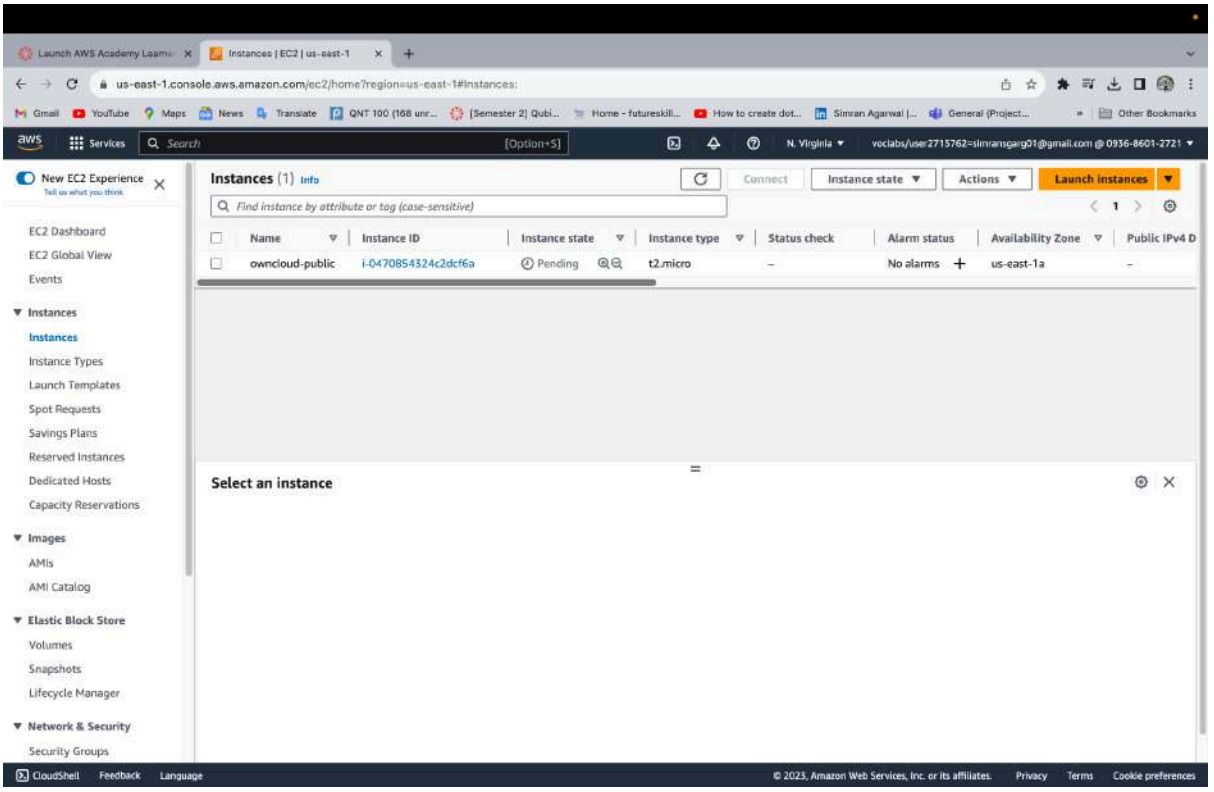
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:
New EC2 Experience
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 D
owncloud-public
i-0470854324c2dcf6a
Pending
t2.micro
No alarms
us-east-1a
Select an instance
CloudShell
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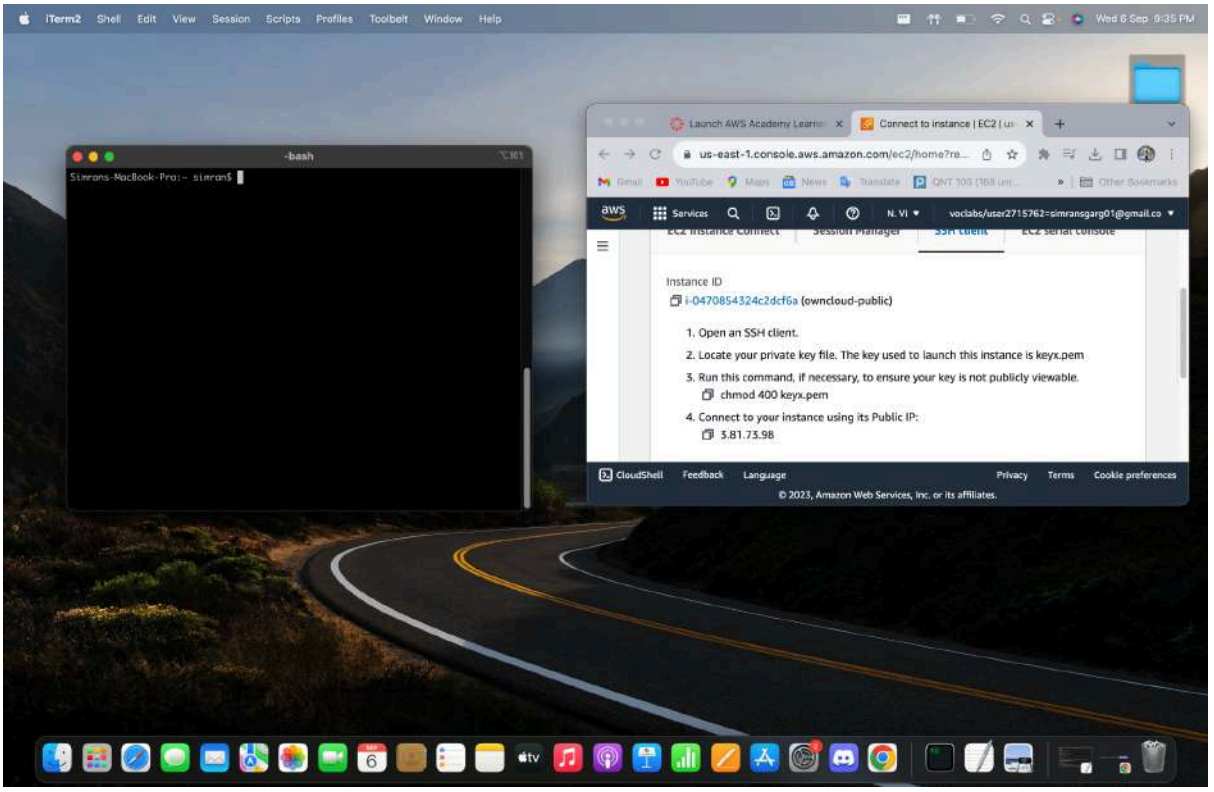
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:35 PM
-bash
Simrans-MacBook-Pro:~ simran$
Launch AWS Academy Learner
Connect to instance | EC2 | us-
us-east-1.console.aws.amazon.com/ec2/home?re...
Services
N. Vi
voclabs/user2715762=simransgarg01@gmail.co
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0470854324c2dcf6a (owncloud-public)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is keyx.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Public IP:
3.81.73.98
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Feedback
Language
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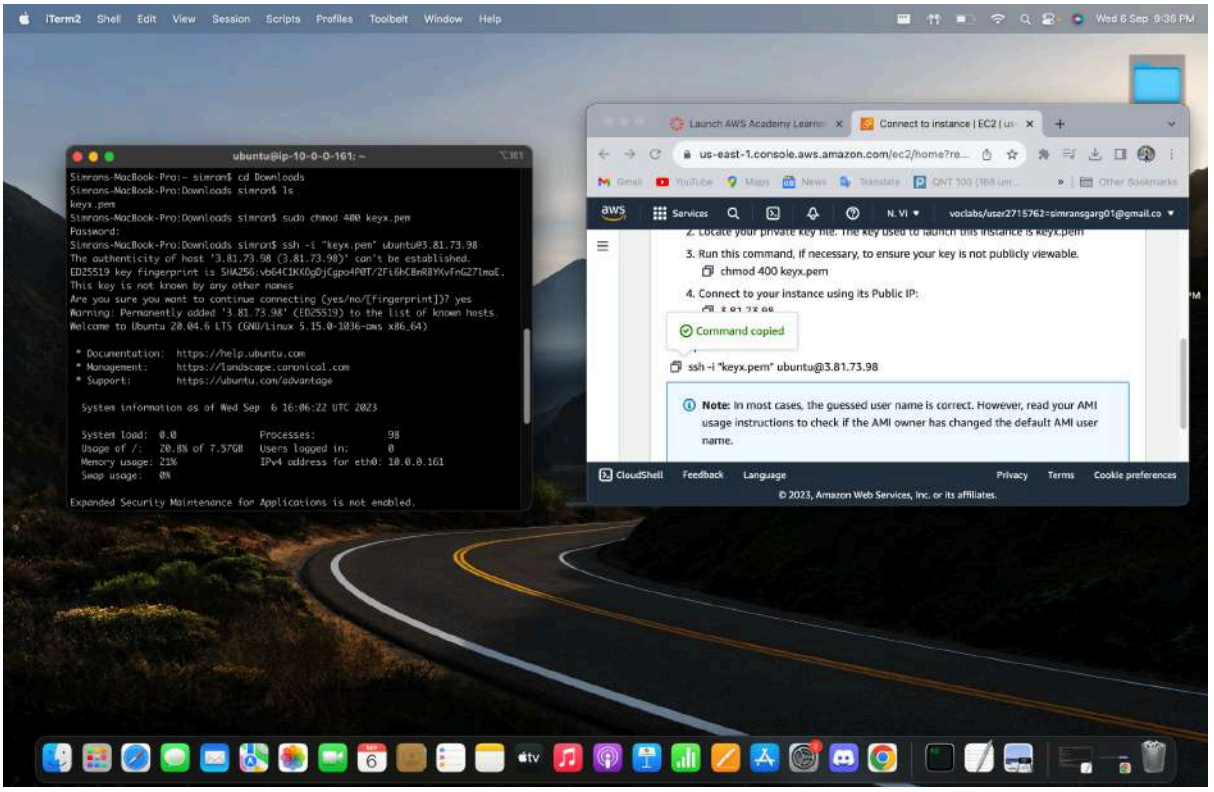
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:36 PM
ubuntu@ip-10-0-0-161: ~
Simrans-MacBook-Pro:~ simran$ cd Downloads
Simrans-MacBook-Pro:Downloads simran$ ls
keyx.pem
Simrans-MacBook-Pro:Downloads simran$ sudo chmod 400 keyx.pem
Password:
Simrans-MacBook-Pro:Downloads simran$ ssh -i "keyx.pem" ubuntu@3.81.73.98
The authenticity of host '3.81.73.98 (3.81.73.98)' can't be established.
ED25519 key fingerprint is SHA256:vb64CIKKOgDjCgpo4P0T/2FiGhCBmR8YKvFnG27lmaE.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.81.73.98' (ED25519) to the list of known hosts.
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1036-aws x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
System information as of Wed Sep 6 16:06:22 UTC 2023
System load: 0.0 Processes: 98
Usage of /: 20.8% of 7.57GB Users logged in: 0
Memory usage: 21% IPv4 address for eth0: 10.0.0.161
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
Launch AWS Academy Learner
Connect to instance | EC2 | us-
us-east-1.console.aws.amazon.com/ec2/home?re...
Services
N. Vi
voclabs/user2715762=simransgarg01@gmail.co
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Public IP:
Command copied
ssh -i "keyx.pem" ubuntu@3.81.73.98
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
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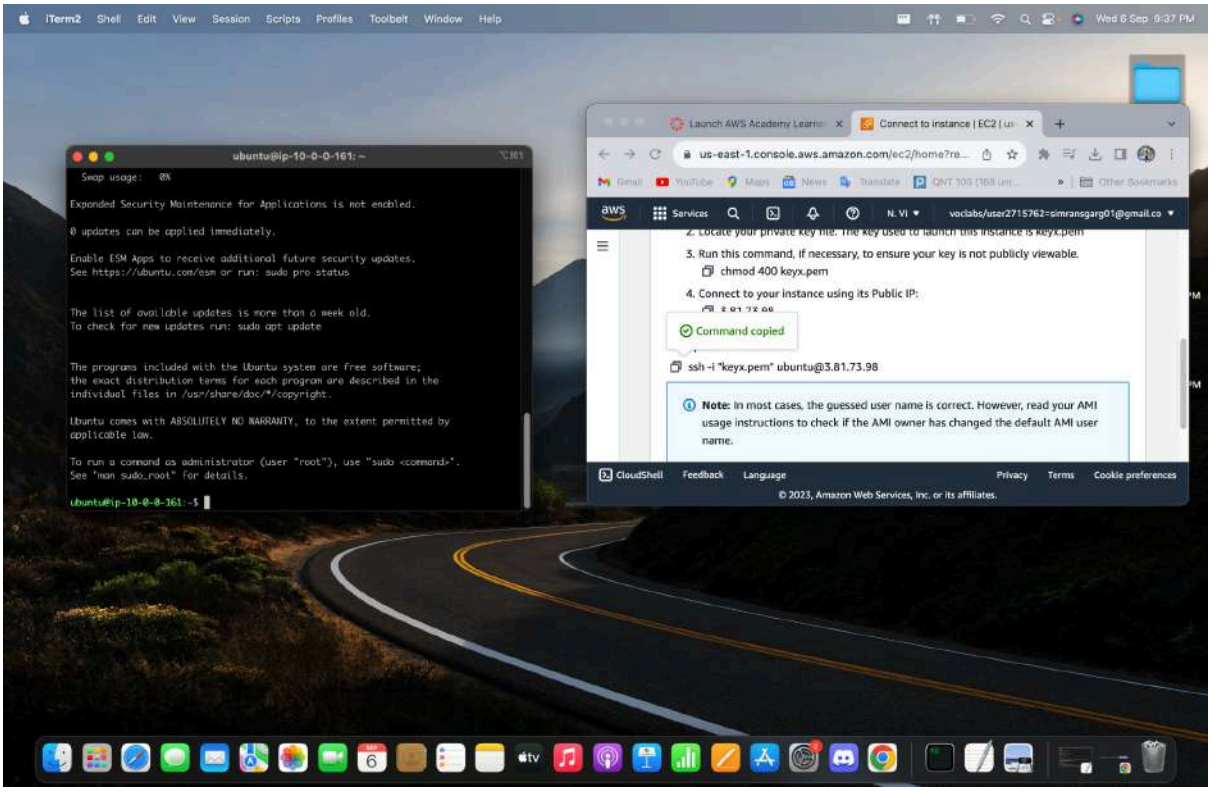
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:37 PM
ubuntu@ip-10-0-0-161: ~
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-10-0-0-161:~$
Launch AWS Academy Learner
Connect to instance | EC2 | us-
us-east-1.console.aws.amazon.com/ec2/home?re...
Services
N. Vi
voclabs/user2715762=simransgarg01@gmail.co
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Public IP:
Command copied
ssh -i "keyx.pem" ubuntu@3.81.73.98
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
CloudShell
Feedback
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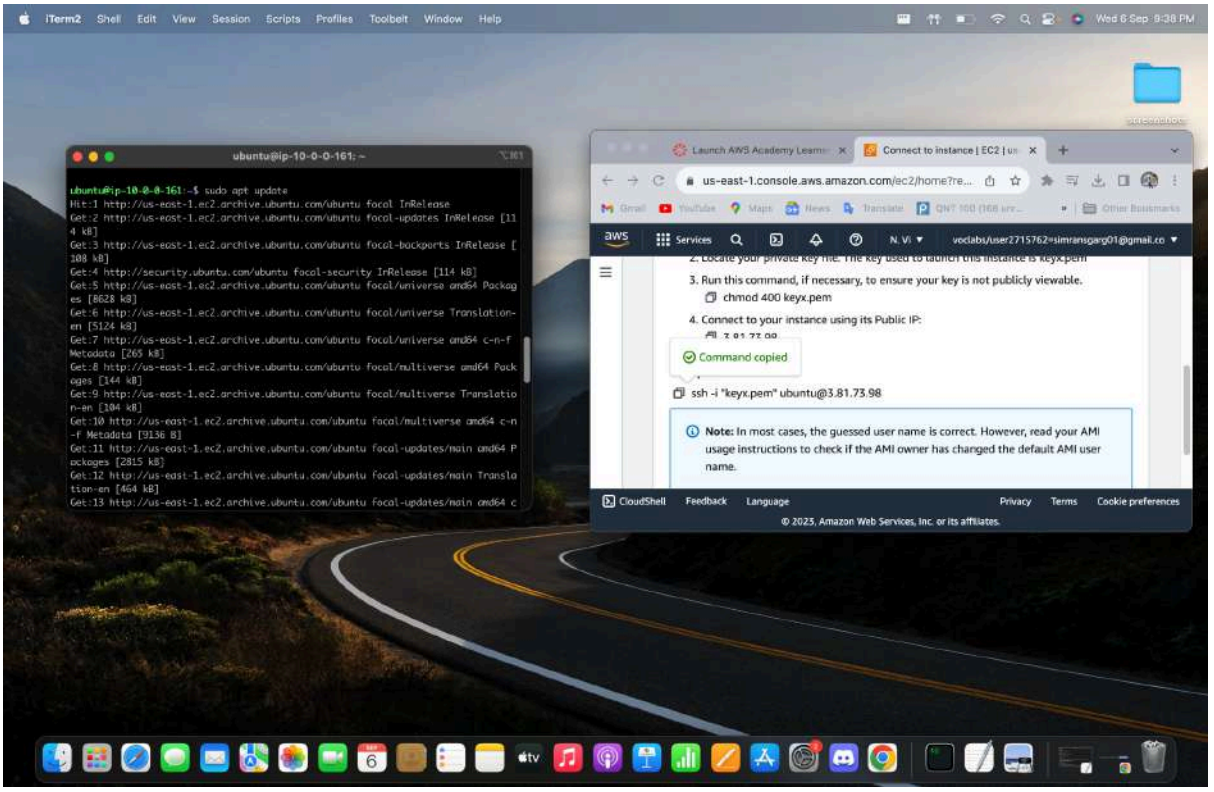
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:38 PM
ubuntu@ip-10-0-0-161: ~
ubuntu@ip-10-0-0-161:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8628 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f Metadata [265 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [144 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse Translation-en [104 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n-f Metadata [9136 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [2815 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [464 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 c
Launch AWS Academy Learner
Connect to instance | EC2 | us-
us-east-1.console.aws.amazon.com/ec2/home?re...
Services
N. Vi
voclabs/user2715762=simransgarg01@gmail.co
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Public IP:
Command copied
ssh -i "keyx.pem" ubuntu@3.81.73.98
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
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Terms
Cookie preferences
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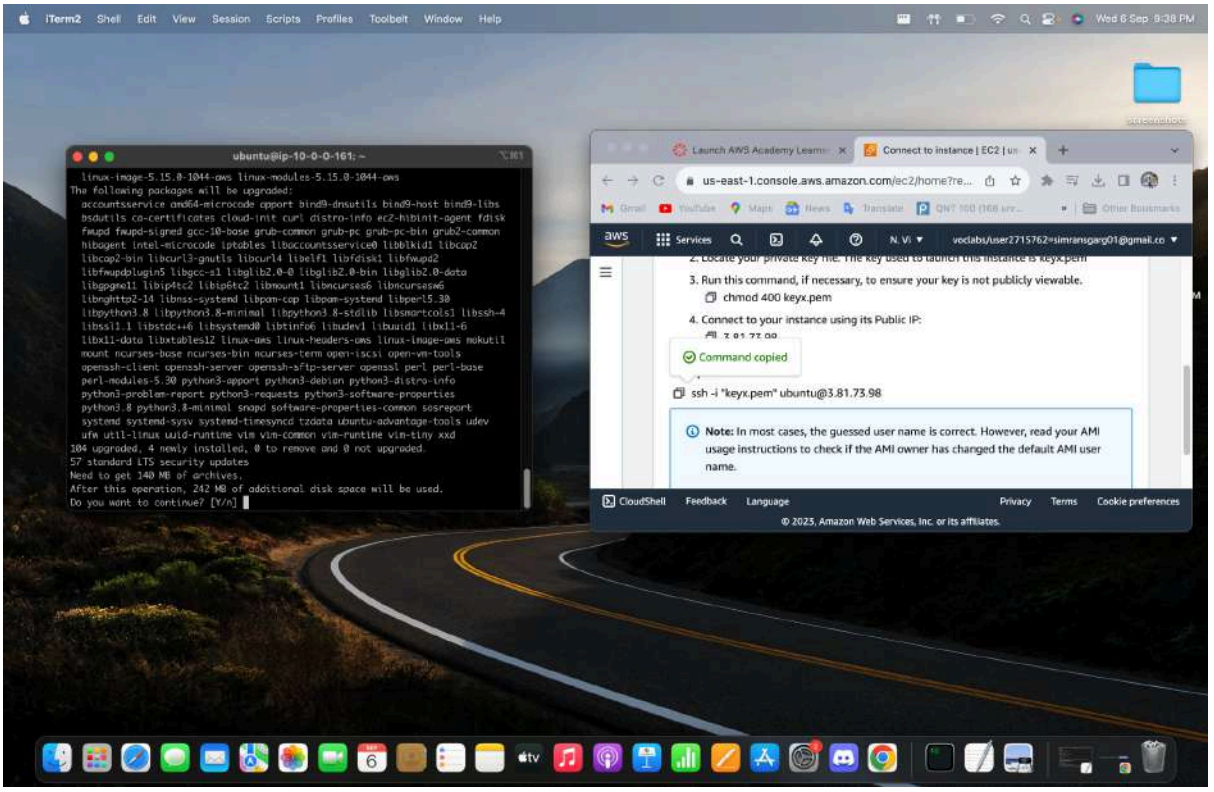
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:38 PM
ubuntu@ip-10-0-0-161: ~
linux-image-5.15.0-1044-aws linux-modules-5.15.0-1044-aws
The following packages will be upgraded:
accountsservice amd64-microcode apport bind9-dnsutils bind9-host bind9-libs
bsdutils ca-certificates cloud-init curl distro-info ec2-hibinit-agent fdisk
fwupd fwupd-signed gcc-10-base grub-common grub-pc grub-pc-bin grub2-common
hibagent intel-microcode iptables libaccountsservice0 libblkid1 libcap2
libcap2-bin libcurl3-gnutls libcurl4 libelf1 libfdisk1 libfwupd2
libfwupdplugin5 libgcc-s1 libglib2.0-0 libglib2.0-bin libglib2.0-data
libgpgme11 libip4tc2 libip6tc2 libmount1 libncurses6 libncursesw6
libnghttp2-14 libnss-systemd libpam-cap libpam-systemd libperl5.30
libpython3.8 libpython3.8-minimal libpython3.8-stdlib libsmartcols1 libssh-4
libssl1.1 libstdc++6 libsystemd0 libtinfo6 libudev1 libuuid1 libx11-6
libx11-data libxtables12 linux-aws linux-headers-aws linux-image-aws mokutil
mount ncurses-base ncurses-bin ncurses-term open-iscsi open-vm-tools
openssh-client openssh-server openssh-sftp-server openssl perl perl-base
perl-modules-5.30 python3-apport python3-debian python3-distro-info
python3-problem-report python3-requests python3-software-properties
python3.8 python3.8-minimal snapd software-properties-common sosreport
systemd systemd-sysv systemd-timesyncd tzdata ubuntu-advantage-tools udev
ufw util-linux uuid-runtime vim vim-common vim-runtime vim-tiny xxd
104 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
57 standard LTS security updates
Need to get 140 MB of archives.
After this operation, 242 MB of additional disk space will be used.
Do you want to continue? [Y/n]
Launch AWS Academy Learner
Connect to instance | EC2 | us
us-east-1.console.aws.amazon.com/ec2/home?re...
aws
Services
N. Vi
voclabs/user2715762=simransgarg01@gmail.co
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Public IP:
Command copied
ssh -i "keyx.pem" ubuntu@3.81.73.98
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
CloudShell
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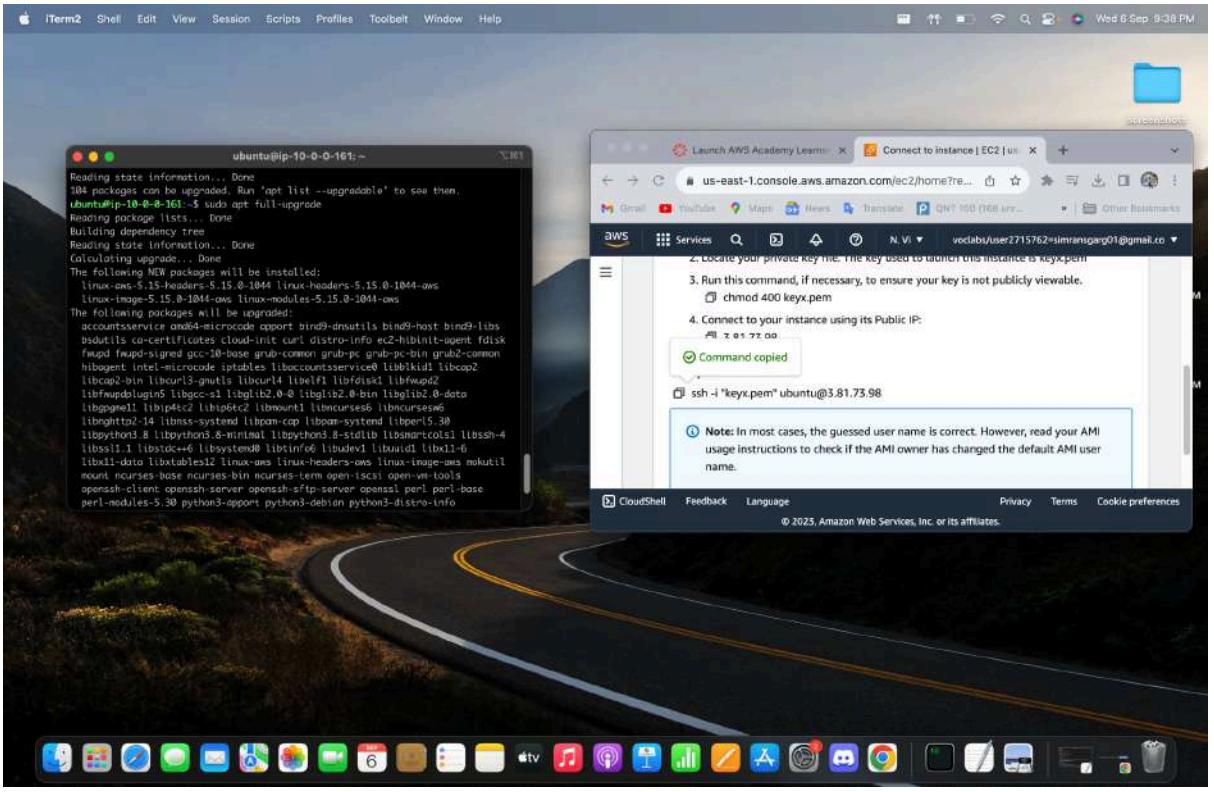
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:38 PM
ubuntu@ip-10-0-0-161: ~
Reading state information... Done
104 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-10-0-0-161:~$ sudo apt full-upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following NEW packages will be installed:
linux-aws-5.15-headers-5.15.0-1044 linux-headers-5.15.0-1044-aws
linux-image-5.15.0-1044-aws linux-modules-5.15.0-1044-aws
The following packages will be upgraded:
accountsservice amd64-microcode apport bind9-dnsutils bind9-host bind9-libs
bsdutils ca-certificates cloud-init curl distro-info ec2-hibinit-agent fdisk
fwupd fwupd-signed gcc-10-base grub-common grub-pc grub-pc-bin grub2-common
hibagent intel-microcode iptables libaccountsservice0 libblkid1 libcap2
libcap2-bin libcurl3-gnutls libcurl4 libelf1 libfdisk1 libfwupd2
libfwupdplugin5 libgcc-s1 libglib2.0-0 libglib2.0-bin libglib2.0-data
libgpgme11 libip4tc2 libip6tc2 libmount1 libncurses6 libncursesw6
libnghttp2-14 libnss-systemd libpam-cap libpam-systemd libperl5.30
libpython3.8 libpython3.8-minimal libpython3.8-stdlib libsmartcols1 libssh-4
libssl1.1 libstdc++6 libsystemd0 libtinfo6 libudev1 libuuid1 libx11-6
libx11-data libxtables12 linux-aws linux-headers-aws linux-image-aws mokutil
mount ncurses-base ncurses-bin ncurses-term open-iscsi open-vm-tools
openssh-client openssh-server openssh-sftp-server openssl perl perl-base
perl-modules-5.30 python3-apport python3-debian python3-distro-info
Launch AWS Academy Learner
Connect to instance | EC2 | us
us-east-1.console.aws.amazon.com/ec2/home?re...
aws
Services
N. Vi
voclabs/user2715762=simransgarg01@gmail.co
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Public IP:
Command copied
ssh -i "keyx.pem" ubuntu@3.81.73.98
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
CloudShell
Feedback
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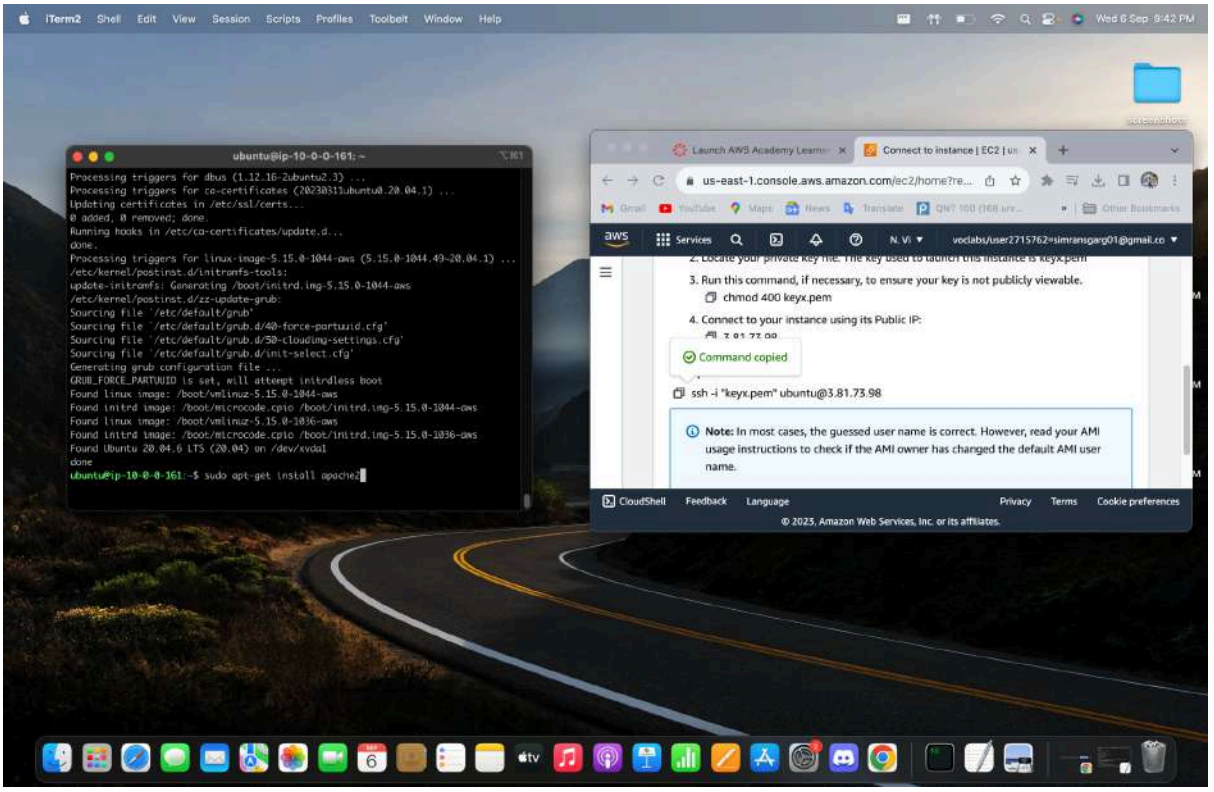
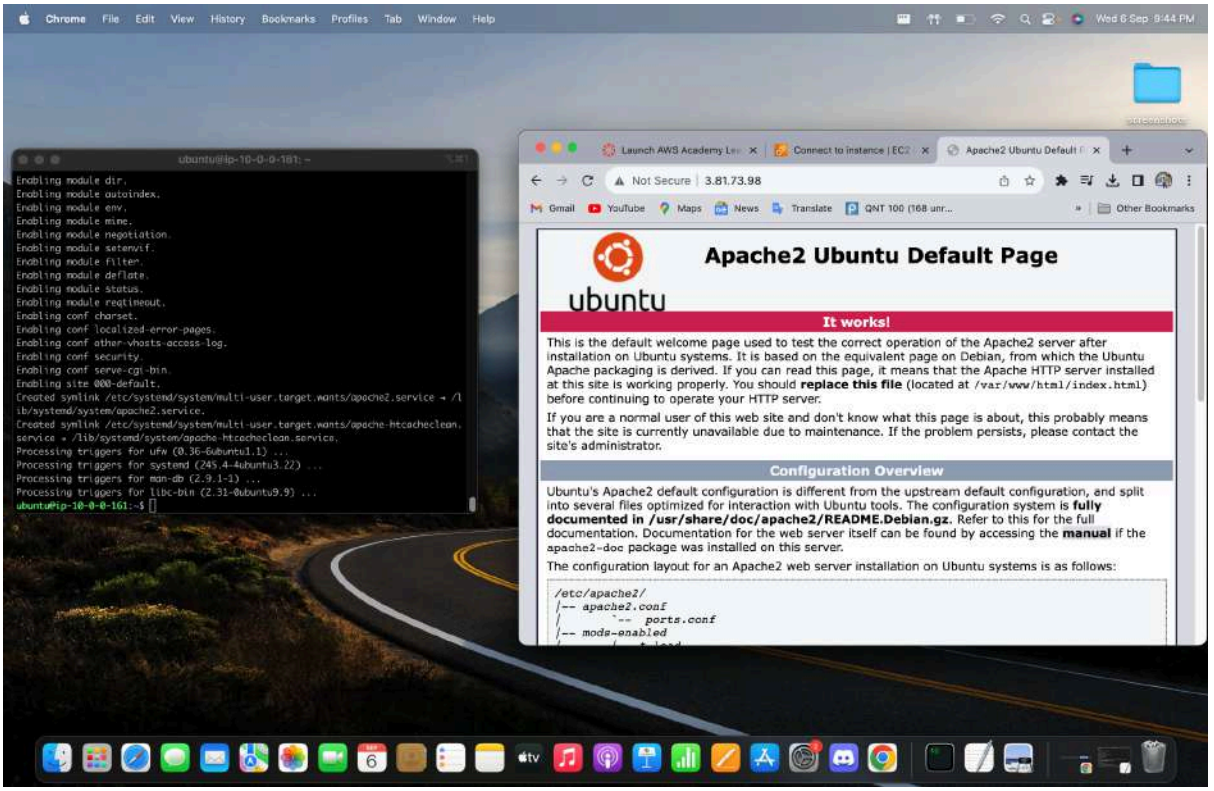
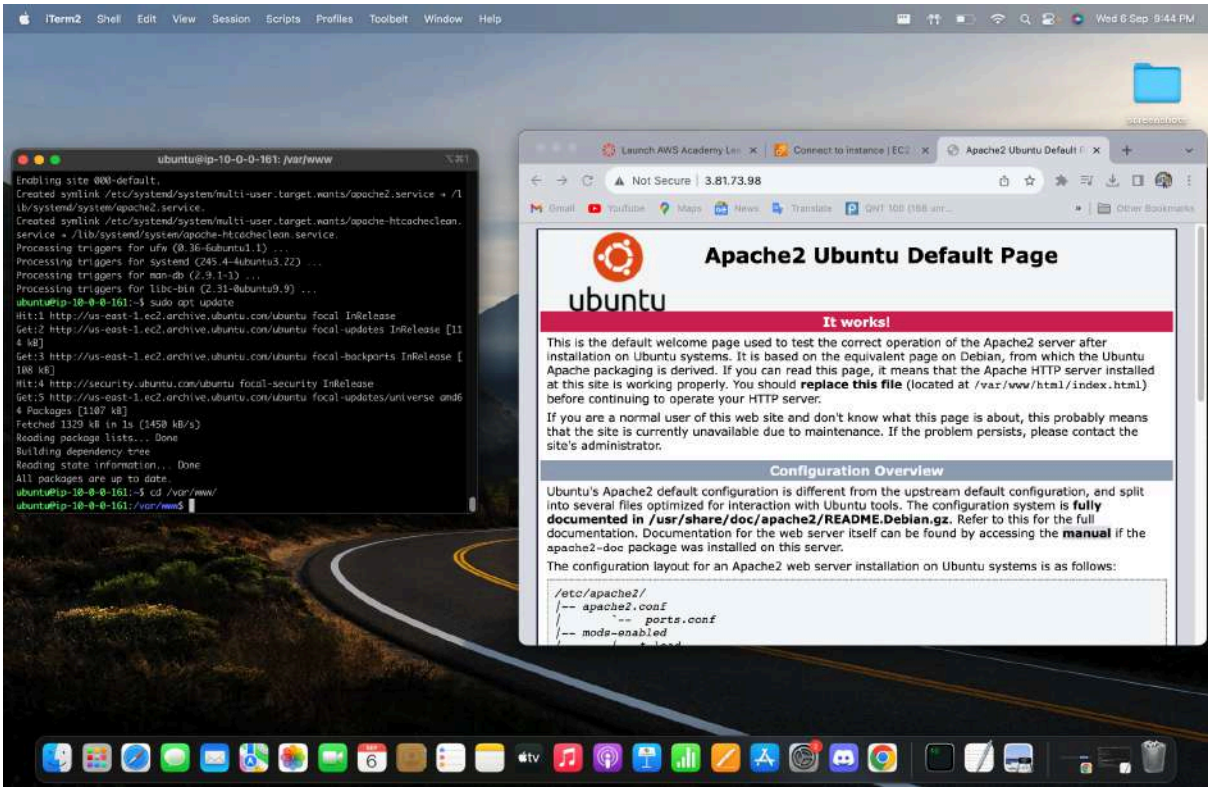
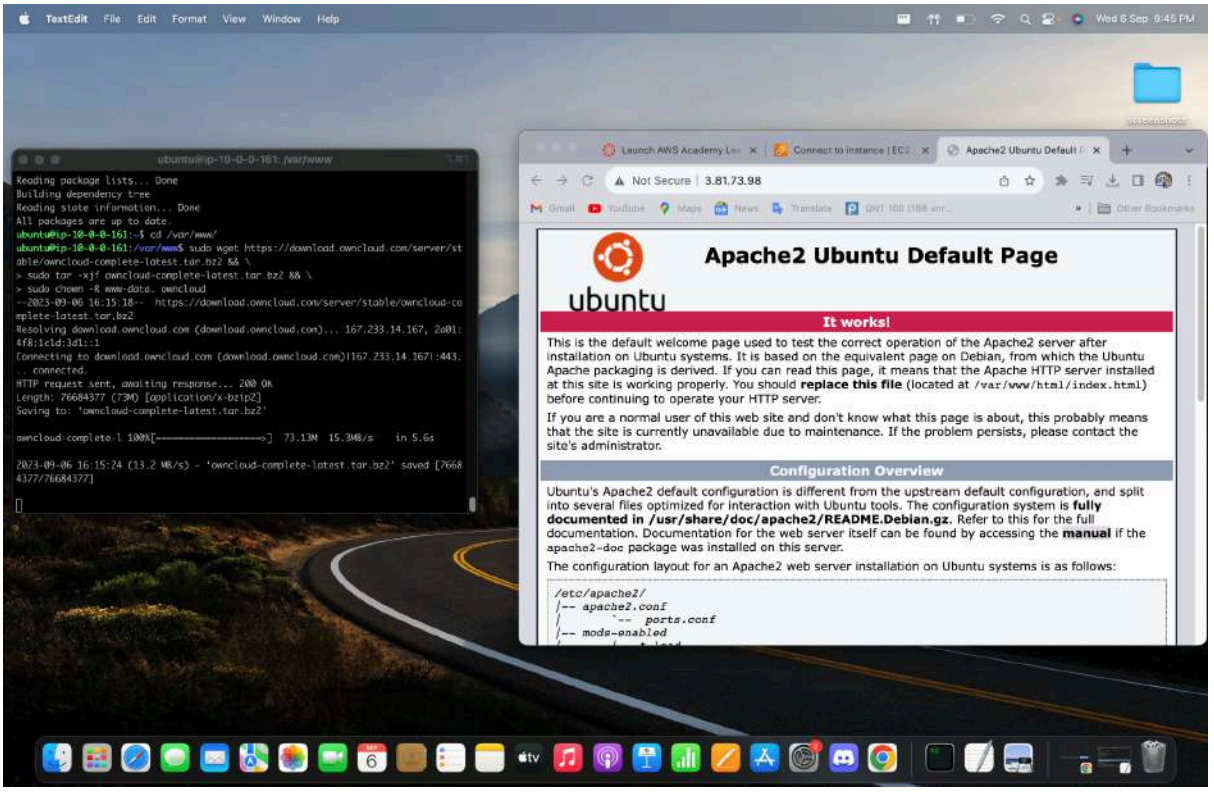
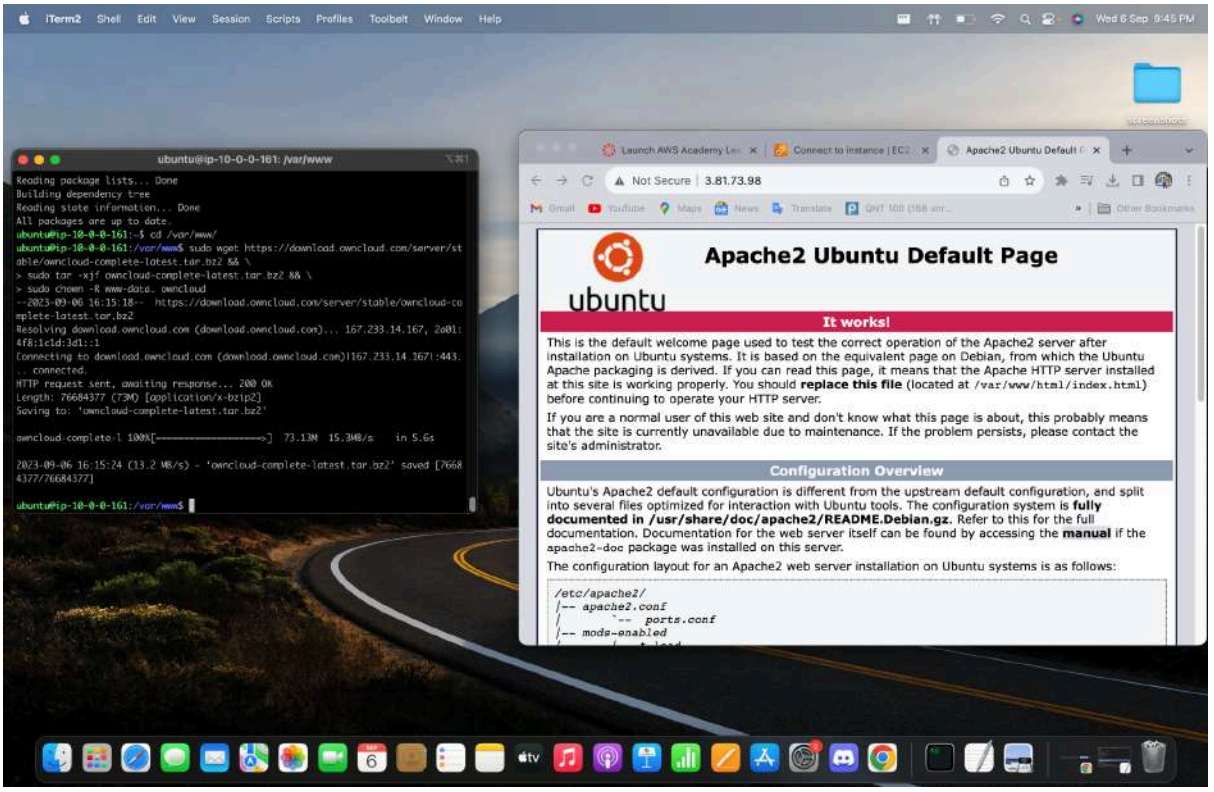
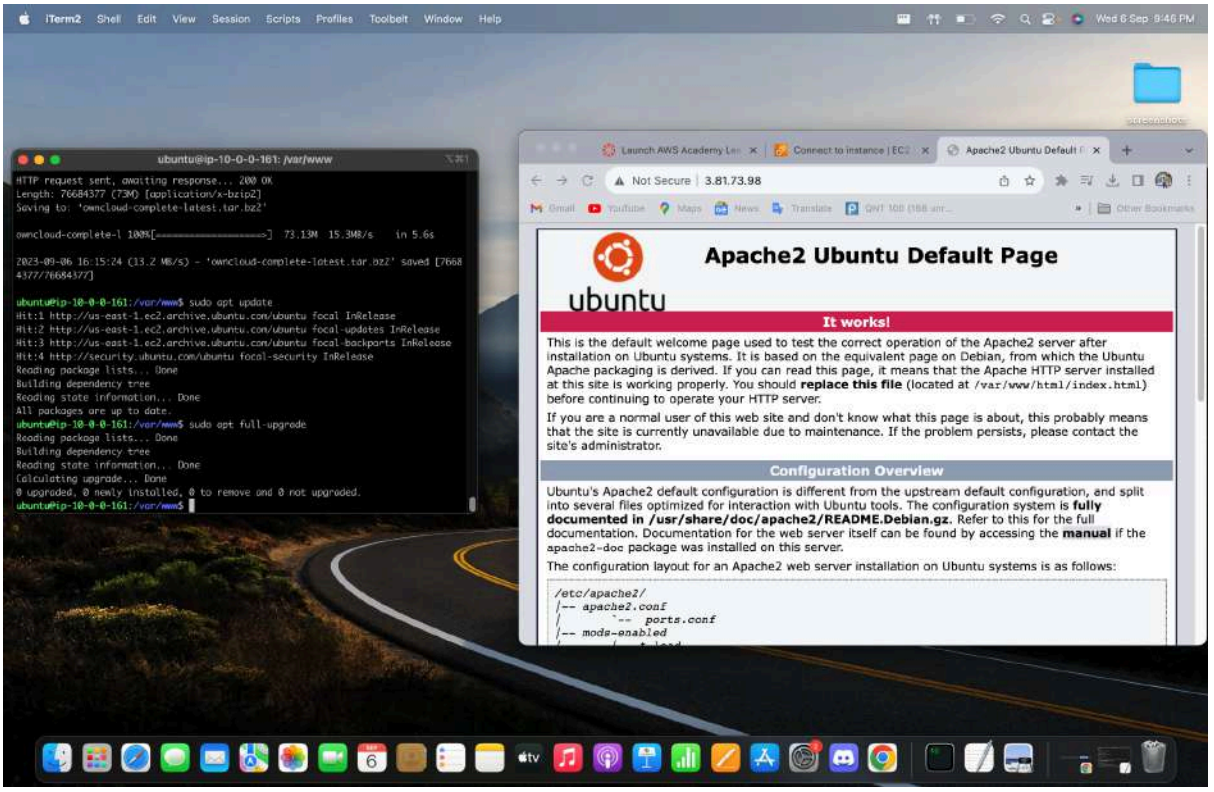

iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:42 PM
ubuntu@ip-10-0-0-161: ~
Processing triggers for dbus (1.12.16-2ubuntu2.3) ...
Processing triggers for ca-certificates (20230311ubuntu0.20.04.1) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
Processing triggers for linux-image-5.15.0-1044-aws (5.15.0-1044.49~20.04.1) ...
/etc/kernel/postinst.d/initramfs-tools:
update-initramfs: Generating /boot/initrd.img-5.15.0-1044-aws
/etc/kernel/postinst.d/zz-update-grub:
Sourcing file `/etc/default/grub'
Sourcing file `/etc/default/grub.d/40-force-partuuid.cfg'
Sourcing file `/etc/default/grub.d/50-cloudimg-settings.cfg'
Sourcing file `/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
GRUB_FORCE_PARTUUID is set, will attempt initrdless boot
Found linux image: /boot/vmlinuz-5.15.0-1044-aws
Found initrd image: /boot/microcode.cpio /boot/initrd.img-5.15.0-1044-aws
Found linux image: /boot/vmlinuz-5.15.0-1036-aws
Found initrd image: /boot/microcode.cpio /boot/initrd.img-5.15.0-1036-aws
Found Ubuntu 20.04.6 LTS (20.04) on /dev/xvda1
done
ubuntu@ip-10-0-0-161:~$ sudo apt-get install apache2
Launch AWS Academy Learner
Connect to instance | EC2 | us
us-east-1.console.aws.amazon.com/ec2/home?re...
Gmail YouTube Maps News Translate QNT 100 (168 unr... Other Bookmarks
aws Services N. Vi vaclabs/user2715762=simransgarg01@gmail.co
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Public IP:
Command copied
ssh -i "keyx.pem" ubuntu@3.81.73.98
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
CloudShell Feedback Language Privacy Terms Cookie preferences
© 2023, Amazon Web Services, Inc. or its affiliates.

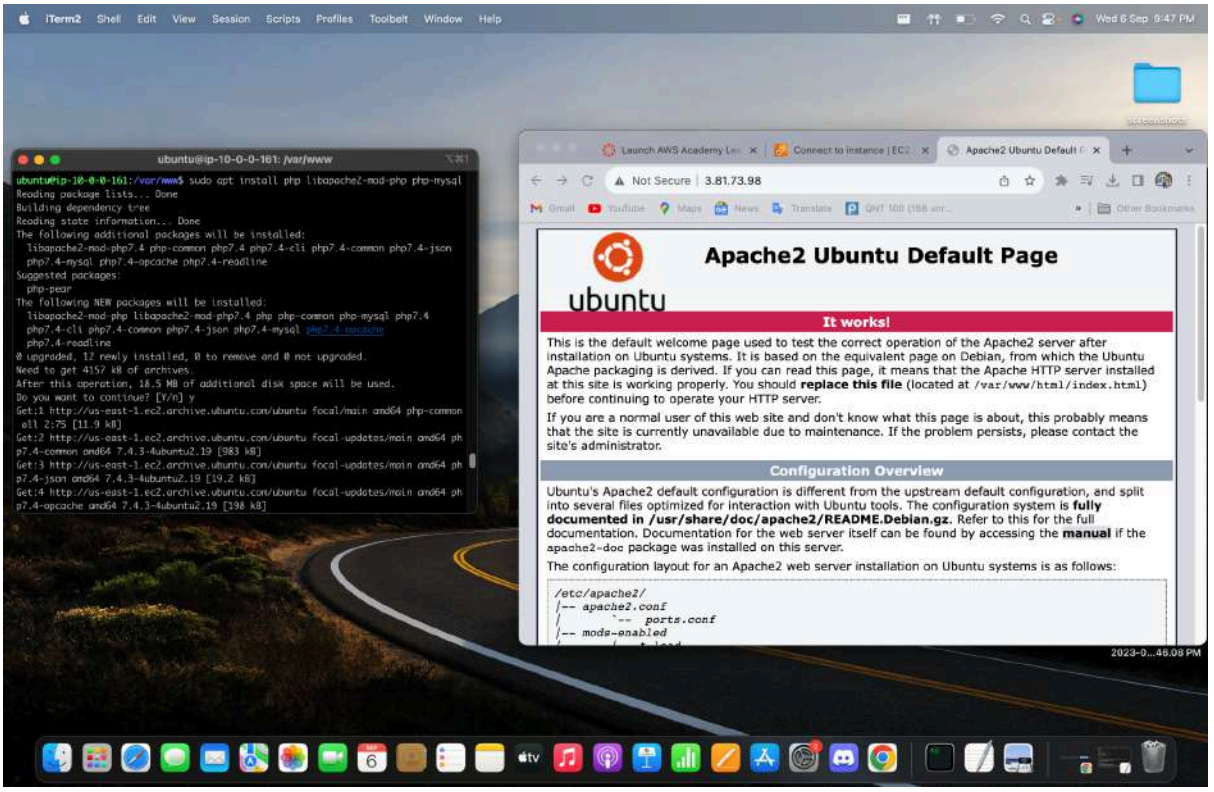

Chrome File Edit View History Bookmarks Profiles Tab Window Help
Wed 6 Sep 9:44 PM
ubuntu@ip-10-0-0-181: ~
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36-6ubuntu1.1) ...
Processing triggers for systemd (245.4-4ubuntu3.22) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
ubuntu@ip-10-0-0-161:~$
Launch AWS Academy Le
Connect to instance | EC2
Apache2 Ubuntu Default
Not Secure 3.81.73.98
Gmail YouTube Maps News Translate QNT 100 (168 unr... Other Bookmarks
Apache2 Ubuntu Default Page
ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
|       `-- ports.conf
|-- mods-enabled


iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:44 PM
ubuntu@ip-10-0-0-161: /var/www
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36-6ubuntu1.1) ...
Processing triggers for systemd (245.4-4ubuntu3.22) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
ubuntu@ip-10-0-0-161:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [1107 kB]
Fetched 1329 kB in 1s (1450 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
ubuntu@ip-10-0-0-161:~$ cd /var/www/
ubuntu@ip-10-0-0-161:/var/www$
Launch AWS Academy Le
Connect to instance | EC2
Apache2 Ubuntu Default
Not Secure | 3.81.73.98
Apache2 Ubuntu Default Page
ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled


TextEdit File Edit Format View Window Help
Wed 6 Sep 9:45 PM
ubuntu@ip-10-0-0-161: /var/www
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
ubuntu@ip-10-0-0-161:~$ cd /var/www/
ubuntu@ip-10-0-0-161:/var/www$ sudo wget https://download.owncloud.com/server/stable/owncloud-complete-latest.tar.bz2 && \
> sudo tar -xjf owncloud-complete-latest.tar.bz2 && \
> sudo chown -R www-data. owncloud
--2023-09-06 16:15:18-- https://download.owncloud.com/server/stable/owncloud-complete-latest.tar.bz2
Resolving download.owncloud.com (download.owncloud.com)... 167.233.14.167, 2a01:4f8:1c1d:3d1::1
Connecting to download.owncloud.com (download.owncloud.com)|167.233.14.167|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 76684377 (73M) [application/x-bzip2]
Saving to: 'owncloud-complete-latest.tar.bz2'
owncloud-complete-l 100%[==========>] 73.13M 15.3MB/s in 5.6s
2023-09-06 16:15:24 (13.2 MB/s) - 'owncloud-complete-latest.tar.bz2' saved [76684377/76684377]
Launch AWS Academy Le
Connect to instance | EC2
Apache2 Ubuntu Default
Not Secure | 3.81.73.98
Apache2 Ubuntu Default Page
ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled


iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:45 PM
ubuntu@ip-10-0-0-161: /var/www
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
ubuntu@ip-10-0-0-161:~$ cd /var/www/
ubuntu@ip-10-0-0-161:/var/www$ sudo wget https://download.owncloud.com/server/stable/owncloud-complete-latest.tar.bz2 && \
> sudo tar -xjf owncloud-complete-latest.tar.bz2 && \
> sudo chown -R www-data. owncloud
--2023-09-06 16:15:18-- https://download.owncloud.com/server/stable/owncloud-complete-latest.tar.bz2
Resolving download.owncloud.com (download.owncloud.com)... 167.233.14.167, 2a01:4f8:1c1d:3d1::1
Connecting to download.owncloud.com (download.owncloud.com)|167.233.14.167|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 76684377 (73M) [application/x-bzip2]
Saving to: 'owncloud-complete-latest.tar.bz2'
owncloud-complete-l 100%[===================>] 73.13M 15.3MB/s in 5.6s
2023-09-06 16:15:24 (13.2 MB/s) - 'owncloud-complete-latest.tar.bz2' saved [76684377/76684377]
ubuntu@ip-10-0-0-161:/var/www$
Not Secure | 3.81.73.98
Apache2 Ubuntu Default Page
ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled


iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:46 PM
ubuntu@ip-10-0-0-161: /var/www
HTTP request sent, awaiting response... 200 OK
Length: 76684377 (73M) [application/x-bzip2]
Saving to: 'owncloud-complete-latest.tar.bz2'
owncloud-complete-l 100%[===================>] 73.13M 15.3MB/s in 5.6s
2023-09-06 16:15:24 (13.2 MB/s) - 'owncloud-complete-latest.tar.bz2' saved [76684377/76684377]
ubuntu@ip-10-0-0-161:/var/www$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
ubuntu@ip-10-0-0-161:/var/www$ sudo apt full-upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ubuntu@ip-10-0-0-161:/var/www$
Not Secure | 3.81.73.98
Apache2 Ubuntu Default Page
ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled


iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:47 PM
ubuntu@ip-10-0-0-161: /var/www
ubuntu@ip-10-0-0-161:/var/www$ sudo apt install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
libapache2-mod-php7.4 php-common php7.4 php7.4-cli php7.4-common php7.4-json
php7.4-mysql php7.4-opcache php7.4-readline
Suggested packages:
php-pear
The following NEW packages will be installed:
libapache2-mod-php libapache2-mod-php7.4 php php-common php-mysql php7.4
php7.4-cli php7.4-common php7.4-json php7.4-mysql php7.4-opcache
php7.4-readline
0 upgraded, 12 newly installed, 0 to remove and 0 not upgraded.
Need to get 4157 kB of archives.
After this operation, 18.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 php-common
all 2:75 [11.9 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 ph
p7.4-common amd64 7.4.3-4ubuntu2.19 [983 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 ph
p7.4-json amd64 7.4.3-4ubuntu2.19 [19.2 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 ph
p7.4-opcache amd64 7.4.3-4ubuntu2.19 [198 kB]
Launch AWS Academy Lea
Connect to instance | EC2
Apache2 Ubuntu Default P
Not Secure | 3.81.73.98
Gmail YouTube Maps News Translate QNT 100 (168 unr...
Other Bookmarks
Apache2 Ubuntu Default Page
ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
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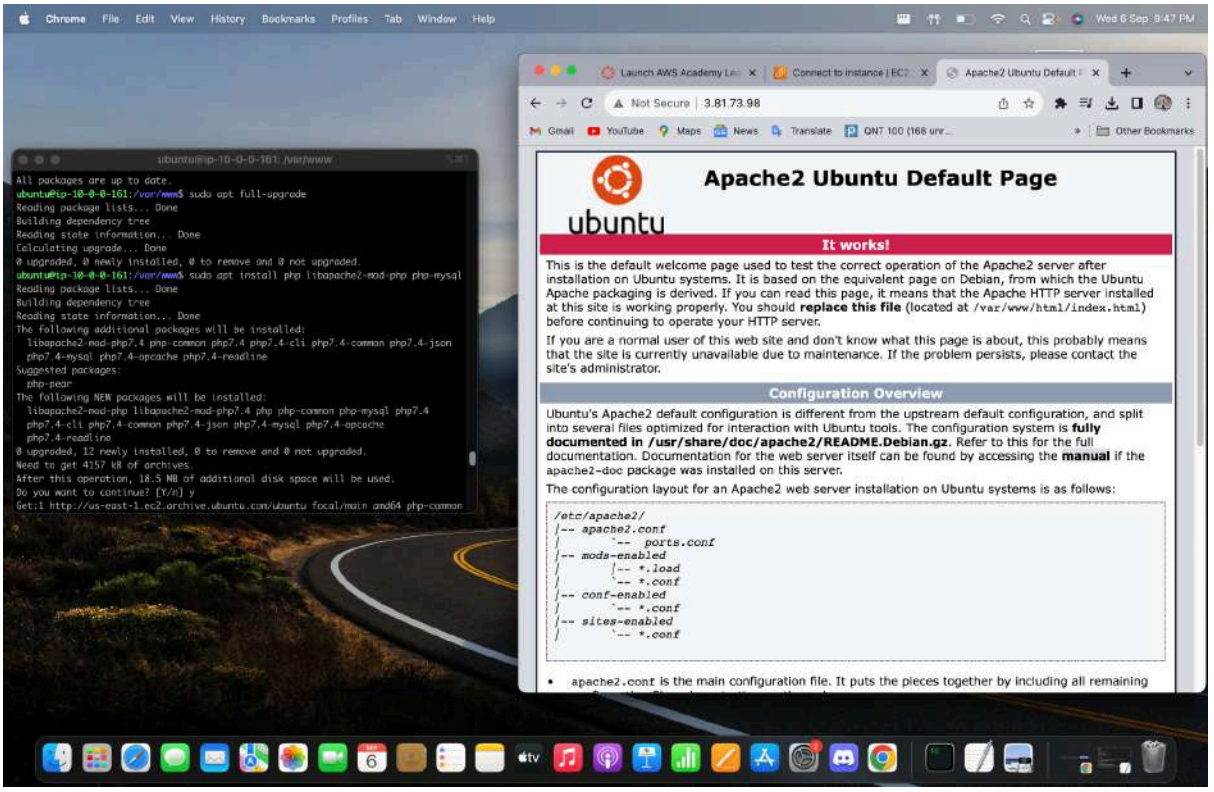
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled
2023-0...46.08 PM


Chrome File Edit View History Bookmarks Profiles Tab Window Help
Wed 6 Sep 9:47 PM
ubuntu@ip-10-0-0-161: /var/www
All packages are up to date.
ubuntu@ip-10-0-0-161:/var/www$ sudo apt full-upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ubuntu@ip-10-0-0-161:/var/www$ sudo apt install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
libapache2-mod-php7.4 php-common php7.4 php7.4-cli php7.4-common php7.4-json
php7.4-mysql php7.4-opcache php7.4-readline
Suggested packages:
php-pear
The following NEW packages will be installed:
libapache2-mod-php libapache2-mod-php7.4 php php-common php-mysql php7.4
php7.4-cli php7.4-common php7.4-json php7.4-mysql php7.4-opcache
php7.4-readline
0 upgraded, 12 newly installed, 0 to remove and 0 not upgraded.
Need to get 4157 kB of archives.
After this operation, 18.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 php-common
Launch AWS Academy Lea
Connect to instance | EC2
Apache2 Ubuntu Default P
Not Secure | 3.81.73.98
Gmail YouTube Maps News Translate QNT 100 (168 unr...
Other Bookmarks
Apache2 Ubuntu Default Page
ubuntu
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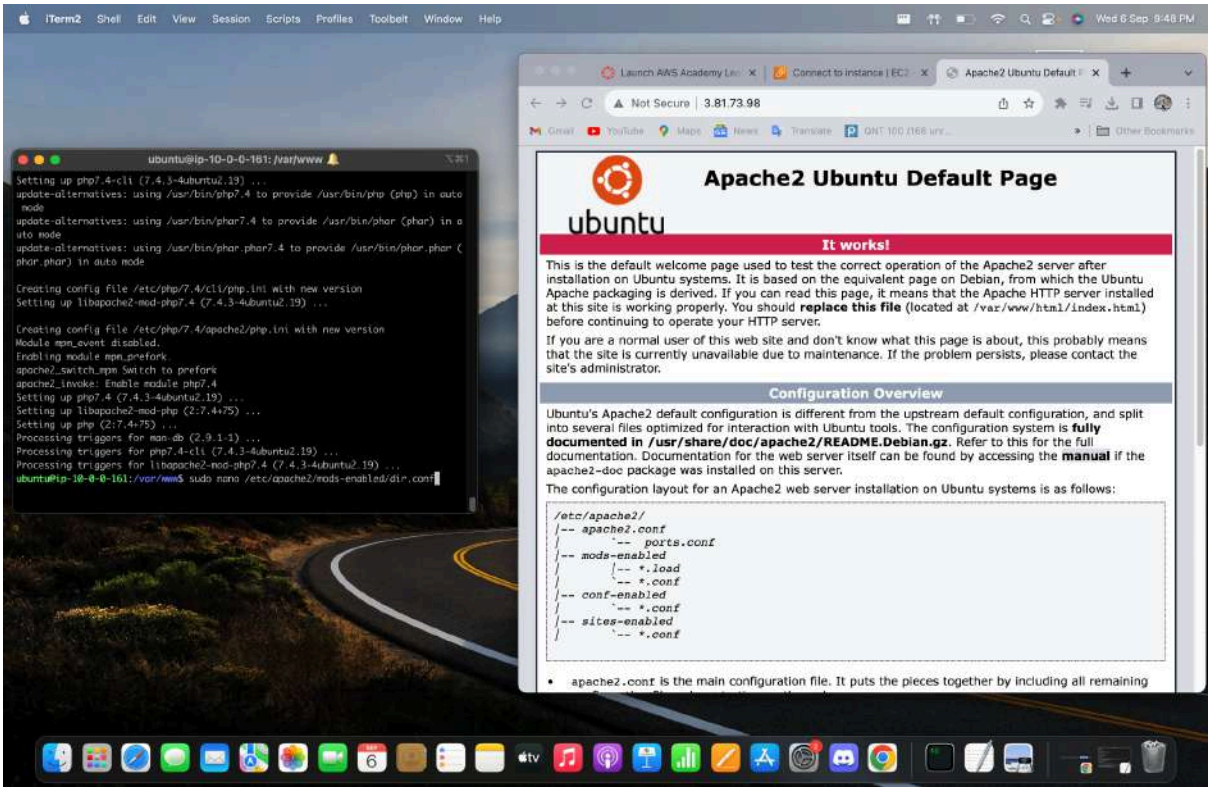
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled
| |-- *.load
| `-- *.conf
|-- conf-enabled
| `-- *.conf
|-- sites-enabled
| `-- *.conf
apache2.conf is the main configuration file. It puts the pieces together by including all remaining


iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:48 PM
ubuntu@ip-10-0-0-161: /var/www
Setting up php7.4-cli (7.4.3-4ubuntu2.19) ...
update-alternatives: using /usr/bin/php7.4 to provide /usr/bin/php (php) in auto mode
update-alternatives: using /usr/bin/phar7.4 to provide /usr/bin/phar (phar) in auto mode
update-alternatives: using /usr/bin/phar.phar7.4 to provide /usr/bin/phar.phar (phar.phar) in auto mode
Creating config file /etc/php/7.4/cli/php.ini with new version
Setting up libapache2-mod-php7.4 (7.4.3-4ubuntu2.19) ...
Creating config file /etc/php/7.4/apache2/php.ini with new version
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
apache2_invoke: Enable module php7.4
Setting up php7.4 (7.4.3-4ubuntu2.19) ...
Setting up libapache2-mod-php (2:7.4+75) ...
Setting up php (2:7.4+75) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for php7.4-cli (7.4.3-4ubuntu2.19) ...
Processing triggers for libapache2-mod-php7.4 (7.4.3-4ubuntu2.19) ...
ubuntu@ip-10-0-0-161:/var/www$ sudo nano /etc/apache2/mods-enabled/dir.conf
Launch AWS Academy Lea
Connect to instance | EC2
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Not Secure | 3.81.73.98
Gmail YouTube Maps News Translate QNT 100 (168 unr...
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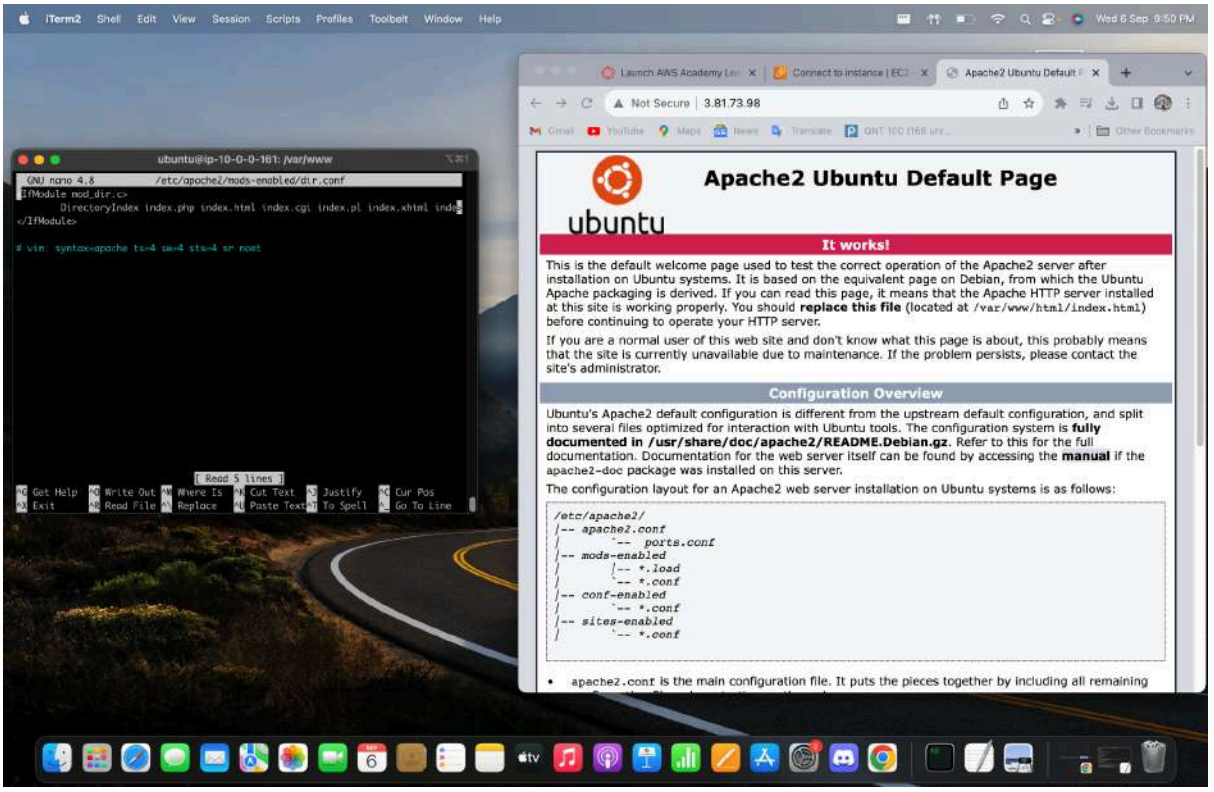
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:50 PM
ubuntu@ip-10-0-0-161: /var/www
GNU nano 4.8 /etc/apache2/mods-enabled/dir.conf
<IfModule mod_dir.c>
DirectoryIndex index.php index.html index.cgi index.pl index.xhtml inde
</IfModule>
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
[ Read 5 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
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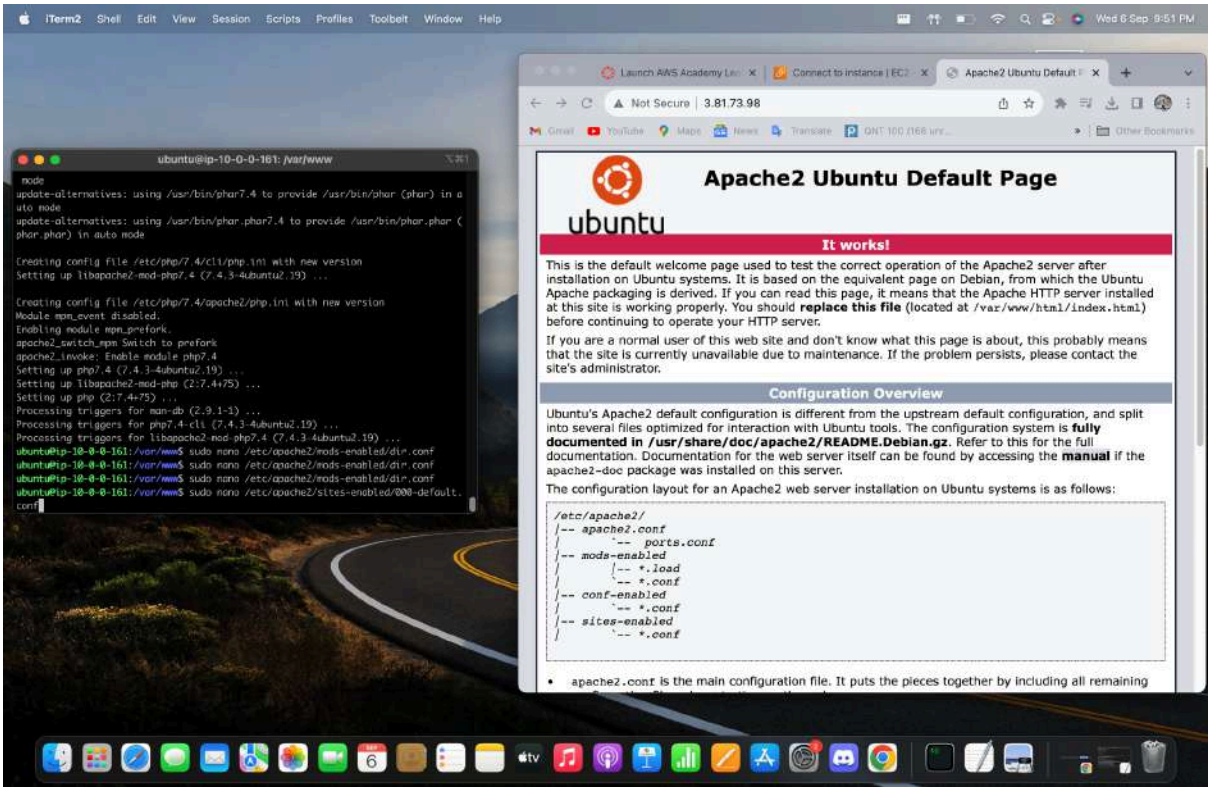
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:51 PM
ubuntu@ip-10-0-0-161: /var/www
node
update-alternatives: using /usr/bin/phar7.4 to provide /usr/bin/phar (phar) in a
uto mode
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Processing triggers for libapache2-mod-php7.4 (7.4.3-4ubuntu2.19) ...
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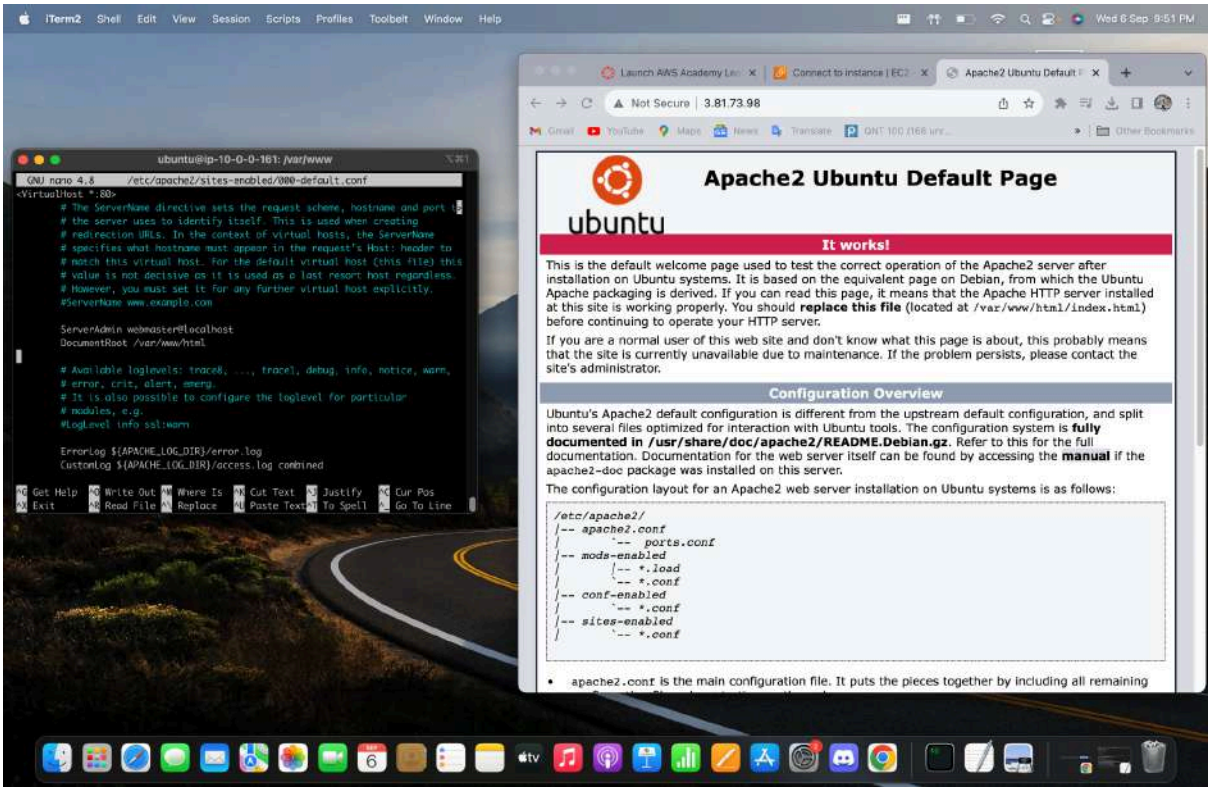
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:51 PM
ubuntu@ip-10-0-0-161: /var/www
GNU nano 4.8 /etc/apache2/sites-enabled/000-default.conf
<VirtualHost *:80>
# The ServerName directive sets the request scheme, hostname and port t
# the server uses to identify itself. This is used when creating
# redirection URLs. In the context of virtual hosts, the ServerName
# specifies what hostname must appear in the request's Host: header to
# match this virtual host. For the default virtual host (this file) this
# value is not decisive as it is used as a last resort host regardless.
# However, you must set it for any further virtual host explicitly.
#ServerName www.example.com
ServerAdmin webmaster@localhost
DocumentRoot /var/www/html
# Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
# error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular
# modules, e.g.
#LogLevel info ssl:warn
ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
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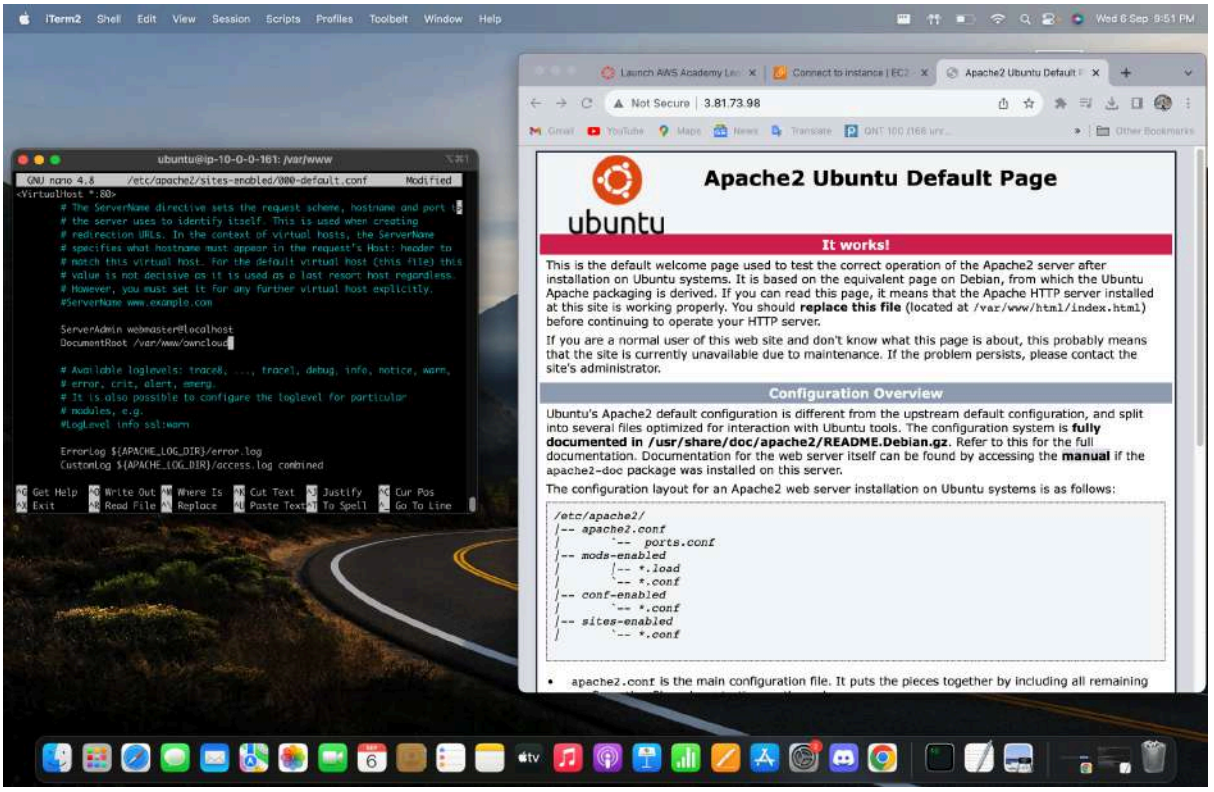
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#ServerName www.example.com
ServerAdmin webmaster@localhost
DocumentRoot /var/www/owncloud
# Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
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# It is also possible to configure the loglevel for particular
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#LogLevel info ssl:warn
ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
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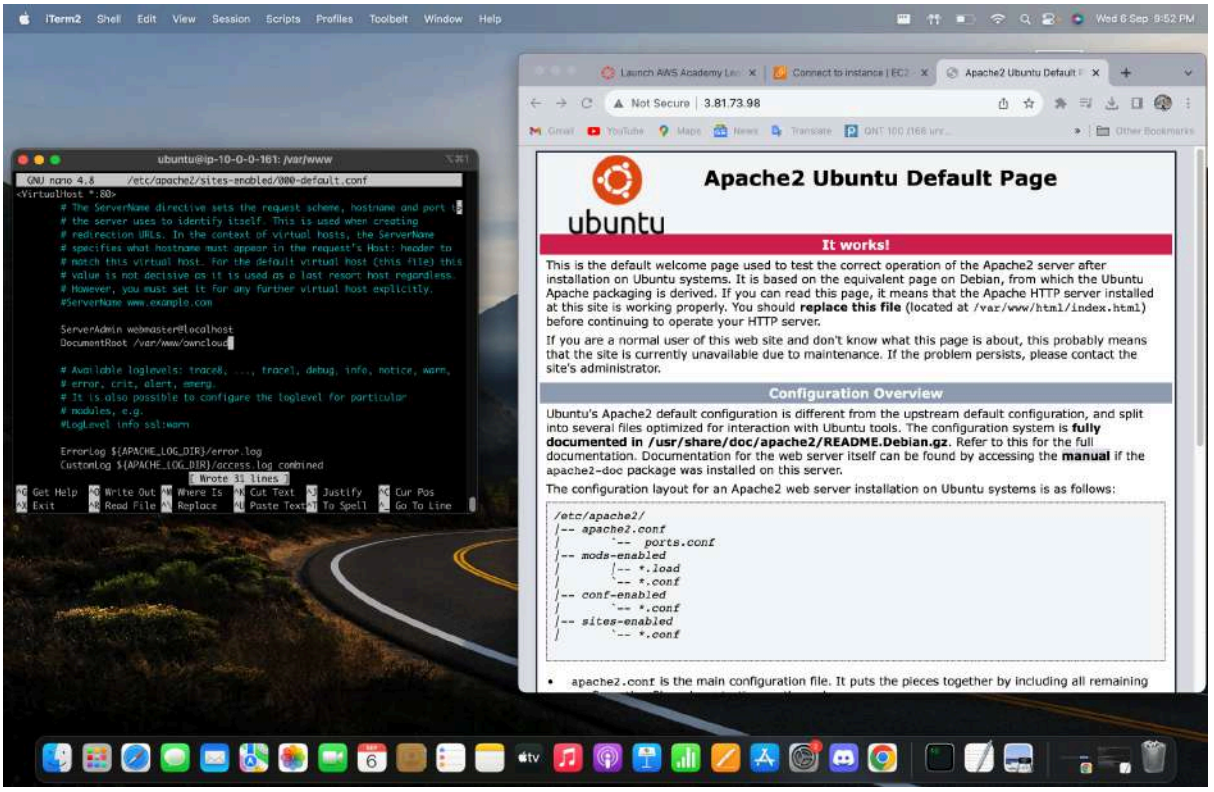
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# error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular
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#LogLevel info ssl:warn
ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined
[ Wrote 31 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
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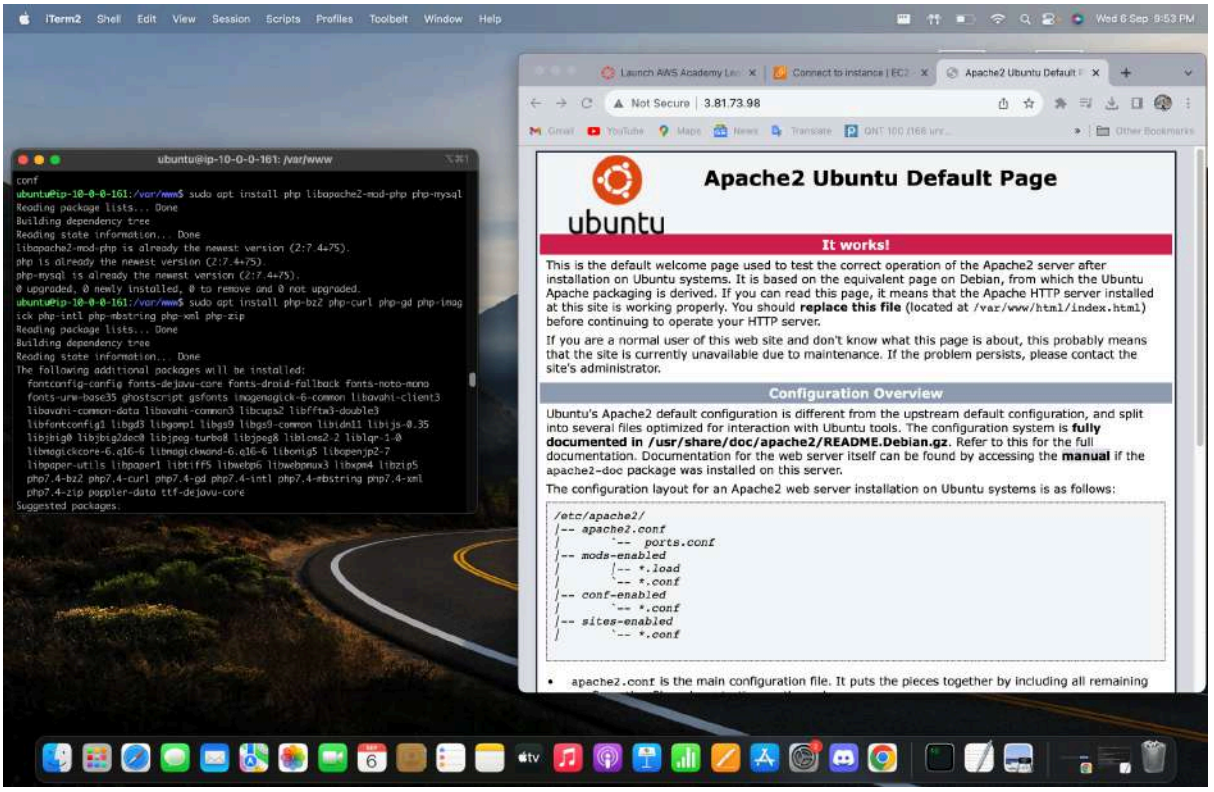
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 9:53 PM
ubuntu@ip-10-0-0-161: /var/www
ubuntu@ip-10-0-0-161:/var/www$ sudo apt install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree
Reading state information... Done
libapache2-mod-php is already the newest version (2:7.4+75).
php is already the newest version (2:7.4+75).
php-mysql is already the newest version (2:7.4+75).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ubuntu@ip-10-0-0-161:/var/www$ sudo apt install php-bz2 php-curl php-gd php-imagick php-intl php-mbstring php-xml php-zip
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
fontconfig-config fonts-dejavu-core fonts-droid-fallback fonts-noto-mono fonts-urw-base35 ghostscript gsfonts imagemagick-6-common libavahi-client3 libavahi-common-data libavahi-common3 libcups2 libfftw3-double3 libfontconfig1 libgd3 libgomp1 libgs9 libgs9-common libidn11 libijs-0.35 libjbig0 libjbig2dec0 libjpeg-turbo8 libjpeg8 liblcms2-2 liblqr-1-0 libmagickcore-6.q16-6 libmagickwand-6.q16-6 libonig5 libopenjp2-7 libpaper-utils libpaper1 libtiff5 libwebp6 libwebpmux3 libxpm4 libzip5 php7.4-bz2 php7.4-curl php7.4-gd php7.4-intl php7.4-mbstring php7.4-xml php7.4-zip poppler-data ttf-dejavu-core
Suggested packages.
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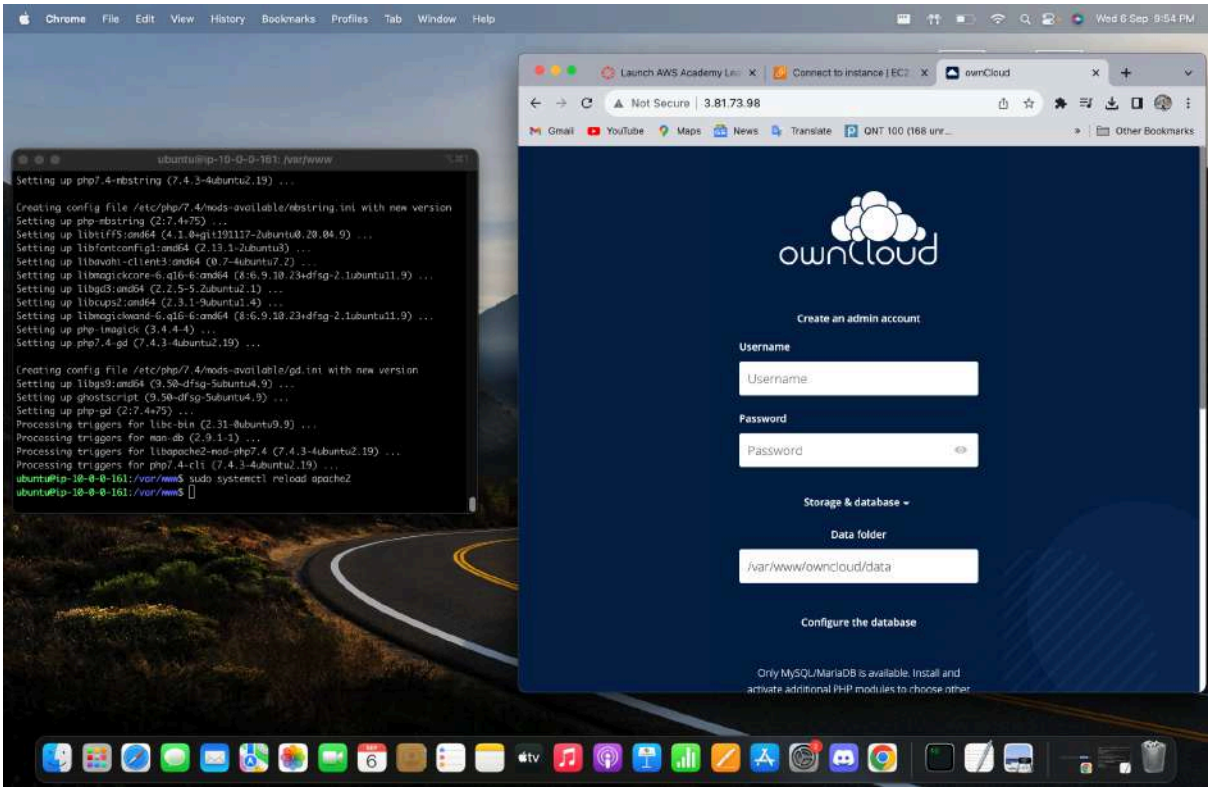
Chrome File Edit View History Bookmarks Profiles Tab Window Help
Wed 6 Sep 9:54 PM
ubuntu@ip-10-0-0-161: /var/www
Setting up php7.4-mbstring (7.4.3-4ubuntu2.19) ...
Creating config file /etc/php/7.4/mods-available/mbstring.ini with new version
Setting up php-mbstring (2:7.4+75) ...
Setting up libtiff5:amd64 (4.1.0+git191117-2ubuntu0.20.04.9) ...
Setting up libfontconfig1:amd64 (2.13.1-2ubuntu3) ...
Setting up libavahi-client3:amd64 (0.7-4ubuntu7.2) ...
Setting up libmagickcore-6.q16-6:amd64 (8:6.9.10.23+dfsg-2.1ubuntu11.9) ...
Setting up libgd3:amd64 (2.2.5-5.2ubuntu2.1) ...
Setting up libcups2:amd64 (2.3.1-9ubuntu1.4) ...
Setting up libmagickwand-6.q16-6:amd64 (8:6.9.10.23+dfsg-2.1ubuntu11.9) ...
Setting up php-imagick (3.4.4-4) ...
Setting up php7.4-gd (7.4.3-4ubuntu2.19) ...
Creating config file /etc/php/7.4/mods-available/gd.ini with new version
Setting up libgs9:amd64 (9.50~dfsg-5ubuntu4.9) ...
Setting up ghostscript (9.50~dfsg-5ubuntu4.9) ...
Setting up php-gd (2:7.4+75) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libapache2-mod-php7.4 (7.4.3-4ubuntu2.19) ...
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ubuntu@ip-10-0-0-161:/var/www$ sudo systemctl reload apache2
ubuntu@ip-10-0-0-161:/var/www$
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Connect to instance | EC2
ownCloud
Not Secure | 3.81.73.98
Gmail YouTube Maps News Translate QNT 100 (168 unr... Other Bookmarks
ownCloud
Create an admin account
Username
Username
Password
Password
Storage & database
Data folder
/var/www/owncloud/data
Configure the database
Only MySQL/MariaDB is available. Install and activate additional PHP modules to choose other

**G2. PRIVATE INSTANCE:**

12. Now to access the private instance, we cannot do it directly like we did for the public instance, this is because the private instance can only access the internet via the public instance with the help of NAT Gateway.
    So we already are logged into the public instance, we will try connecting to the private instance through the public instance using the following steps.
    a. First, we will copy the key of the private instance into the public instance.
    b. We will change the permission of that key to 400 (read-only).
    “sudo chmod 400 keyx.pem”
    c. Now we will try to connect to the private instance using the following command
    “sudo ssh -i keyx.pem ubuntu@10.0.1.200”

13. After successfully connecting to the private instance, we will update and upgrade the system first.
    “sudo apt update”
    “sudo apt full-upgrade”

14. Now that we have updated and upgraded our private instance, we will install the mysql server with the following command
    “sudo apt install mysql-server”

15. Now for creating the database and the users and granting them the privileges we need to follow the below steps.
    “sudo mysql”
    “CREATE DATABASE owncloud;”
    “CREATE USER 'owncloud'@'localhost' IDENTIFIED BY 'password';”
    “CREATE USER 'owncloud'@'%' IDENTIFIED BY 'password';”

“GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'localhost' with GRANT OPTION;”
“GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'%' with GRANT OPTION;”
“FLUSH PRIVILEGES;”
“EXIT”

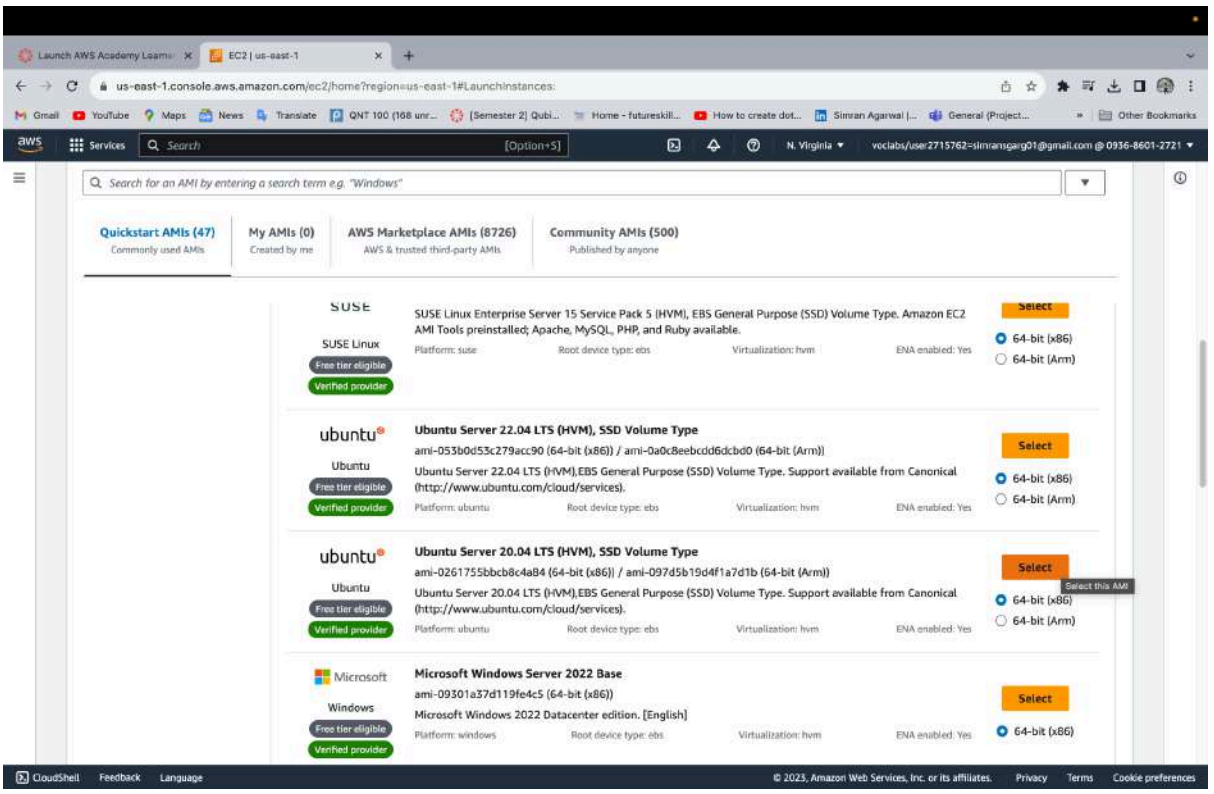
16. We have successfully created the database (owncloud) and the user (owncloud) with the password (password).
17. In-order for the public instance to connect and access the database in the private instance we have to configure the bind address in the sql configuration. To do that type the following command

    “sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf”

    Change the bind address from 127.0.0.1 to 0.0.0.0

18. Now, restart the mysql service using the following commands.
    “sudo systemctl restart mysql.service”

19. Sometimes, the firewall blocks the connection from public instance to private, to allow the good flow of data and requests from public instance to private instance, try running the following command.
    “sudo iptables -A INPUT -p tcp --destination-port 3306 -j ACCEPT”


Search for an AMI by entering a search term e.g. "Windows"
Quickstart AMIs (47)
Commonly used AMIs
My AMIs (0)
Created by me
AWS Marketplace AMIs (8726)
AWS & trusted third-party AMIs
Community AMIs (500)
Published by anyone
SUSE Linux
Free tier eligible
Verified provider
SUSE Linux Enterprise Server 15 Service Pack 5 (HVM), EBS General Purpose (SSD) Volume Type. Amazon EC2 AMI Tools preinstalled; Apache, MySQL, PHP, and Ruby available.
Platform: suse
Root device type: ebs
Virtualization: hvm
ENA enabled: Yes
Select
64-bit (x86)
64-bit (Arm)
Ubuntu
Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
ami-053b0d53c279acc90 (64-bit (x86)) / ami-0a0c8eebcdd6dcbd0 (64-bit (Arm))
Ubuntu Server 22.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).
Platform: ubuntu
Root device type: ebs
Virtualization: hvm
ENA enabled: Yes
Ubuntu Server 20.04 LTS (HVM), SSD Volume Type
ami-0261755bbcb8c4a84 (64-bit (x86)) / ami-097d5b19d4f1a7d1b (64-bit (Arm))
Ubuntu Server 20.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).
Platform: ubuntu
Root device type: ebs
Virtualization: hvm
ENA enabled: Yes
Select this AMI
Microsoft
Windows
Microsoft Windows Server 2022 Base
ami-09301a37d119fe4c5 (64-bit (x86))
Microsoft Windows 2022 Datacenter edition. [English]
Platform: windows
Root device type: ebs
Virtualization: hvm
ENA enabled: Yes
CloudShell
Feedback
Language
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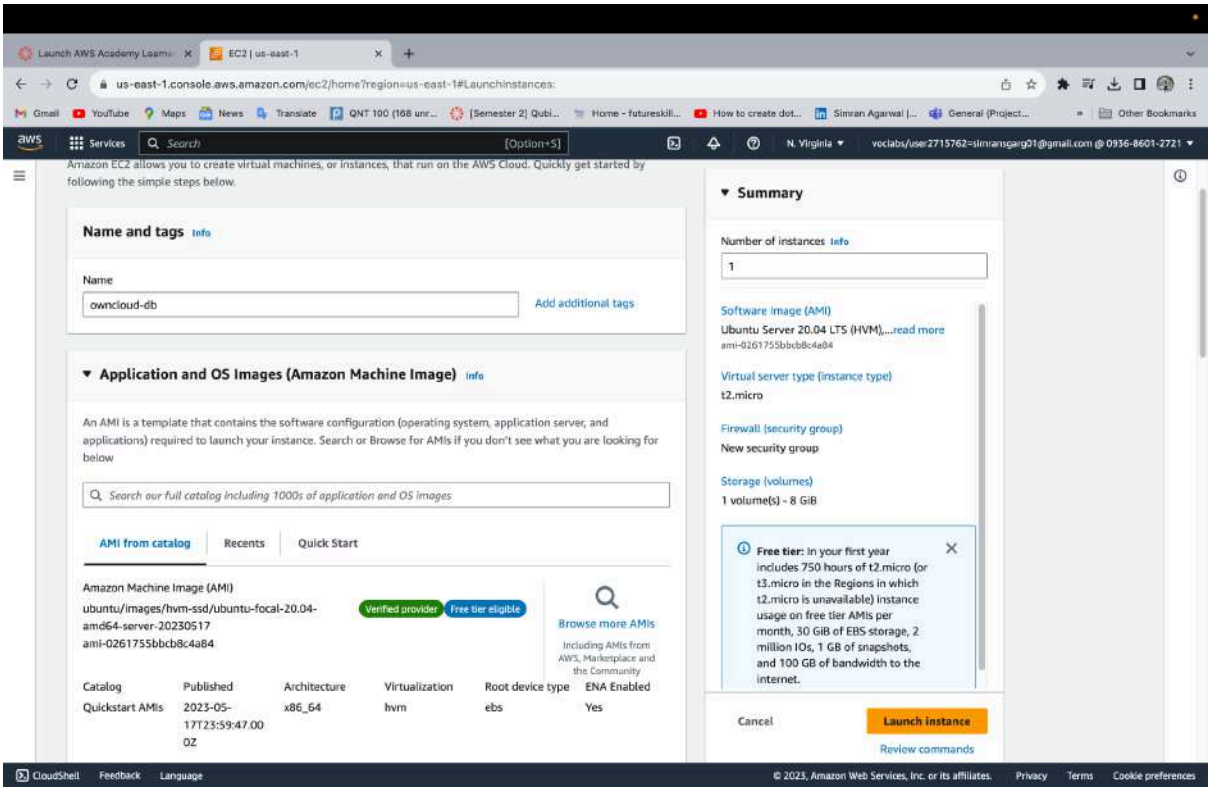
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
owncloud-db
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI is a template that contains the software 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
AMI from catalog
Recents
Quick Start
Amazon Machine Image (AMI)
ubuntu/images/hvm-ssd/ubuntu-focal-20.04-amd64-server-20230517
ami-0261755bbcb8c4a84
Verified provider
Free tier eligible
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Catalog
Quickstart AMIs
Published
2023-05-17T23:59:47.000Z
Architecture
x86_64
Virtualization
hvm
Root device type
ebs
ENA Enabled
Yes
Summary
Number of instances Info
1
Software image (AMI)
Ubuntu Server 20.04 LTS (HVM),...read more
ami-0261755bbcb8c4a84
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
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 which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Review commands
CloudShell
Feedback
Language
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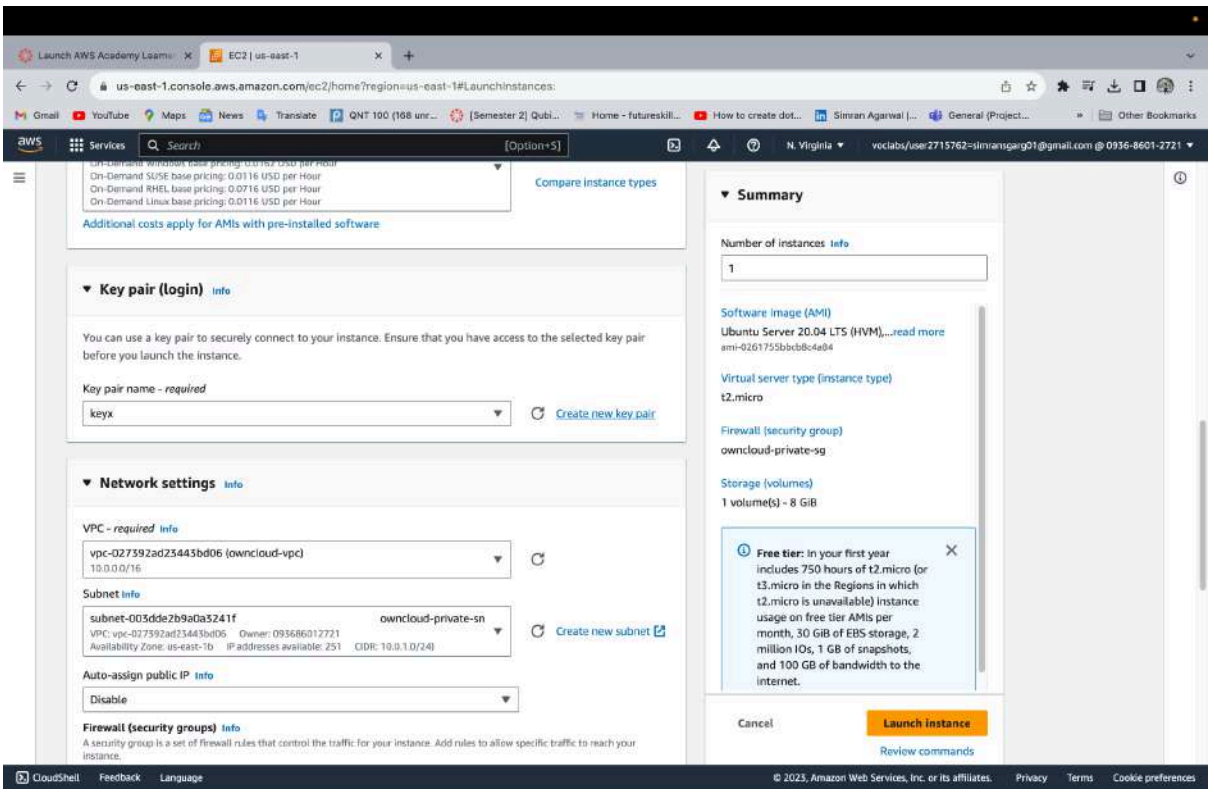
Cookie preferences


Launch AWS Academy Learne
EC2 | us-east-1
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Gmail YouTube Maps News Translate QNT 100 (168 unr... [Semester 2] Qubi... Home - futureskill... How to create dot... Simran Agarwal |... General (Project... Other Bookmarks
aws Services Search [Option+S] N. Virginia voclabs/user2715762=simransgarg01@gmail.com @ 0936-8601-2721
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
Additional costs apply for AMIs with pre-installed software
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
keyx
Create new key pair
Network settings Info
VPC - required Info
vpc-027392ad23443bd06 (owncloud-vpc)
10.0.0.0/16
Subnet Info
subnet-003dde2b9a0a3241f owncloud-private-sn
VPC: vpc-027392ad23443bd06 Owner: 093686012721
Availability Zone: us-east-1b IP addresses available: 251 CIDR: 10.0.1.0/24)
Create new subnet
Auto-assign public IP Info
Disable
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.
Summary
Number of instances Info
1
Software Image (AMI)
Ubuntu Server 20.04 LTS (HVM),...read more
ami-0261755bbcb8c4a84
Virtual server type (instance type)
t2.micro
Firewall (security group)
owncloud-private-sg
Storage (volumes)
1 volume(s) - 8 GiB
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Cancel
Launch instance
Review commands
CloudShell Feedback Language
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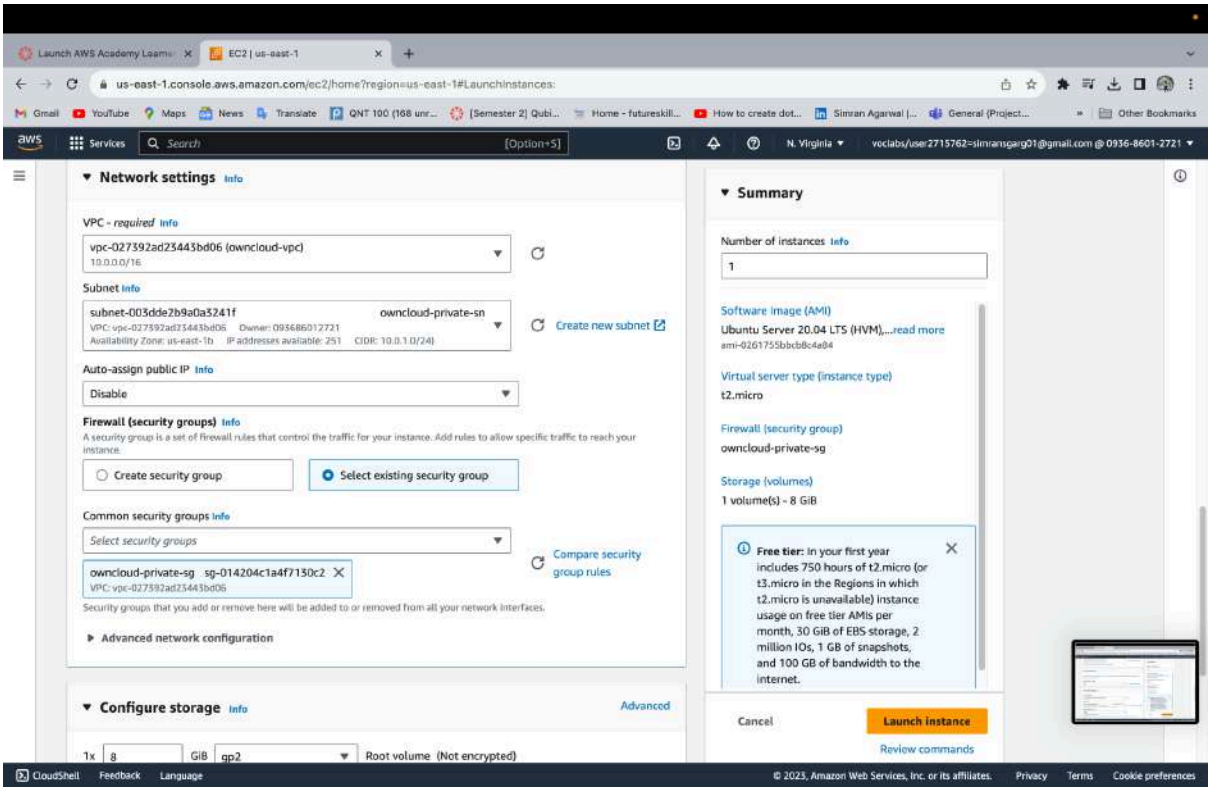
Launch AWS Academy Learne
EC2 | us-east-1
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Gmail YouTube Maps News Translate QNT 100 (168 unr... [Semester 2] Qubi... Home - futureskill... How to create dot... Simran Agarwal |... General (Project... Other Bookmarks
aws Services Search [Option+S] N. Virginia voclabs/user2715762=simransgarg01@gmail.com @ 0936-8601-2721
Network settings Info
VPC - required Info
vpc-027392ad23443bd06 (owncloud-vpc)
10.0.0.0/16
Subnet Info
subnet-003dde2b9a0a3241f owncloud-private-sn
VPC: vpc-027392ad23443bd06 Owner: 093686012721
Availability Zone: us-east-1b IP addresses available: 251 CIDR: 10.0.1.0/24)
Create new subnet
Auto-assign public IP Info
Disable
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
owncloud-private-sg sg-014204c1a4f7130c2
VPC: vpc-027392ad23443bd06
Compare security group rules
Security groups that you add or remove here will be added to or removed from all your network interfaces.
Advanced network configuration
Configure storage Info
Advanced
1x 8 GiB gp2 Root volume (Not encrypted)
Summary
Number of instances Info
1
Software Image (AMI)
Ubuntu Server 20.04 LTS (HVM),...read more
ami-0261755bbcb8c4a84
Virtual server type (instance type)
t2.micro
Firewall (security group)
owncloud-private-sg
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 which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Review commands
CloudShell Feedback Language
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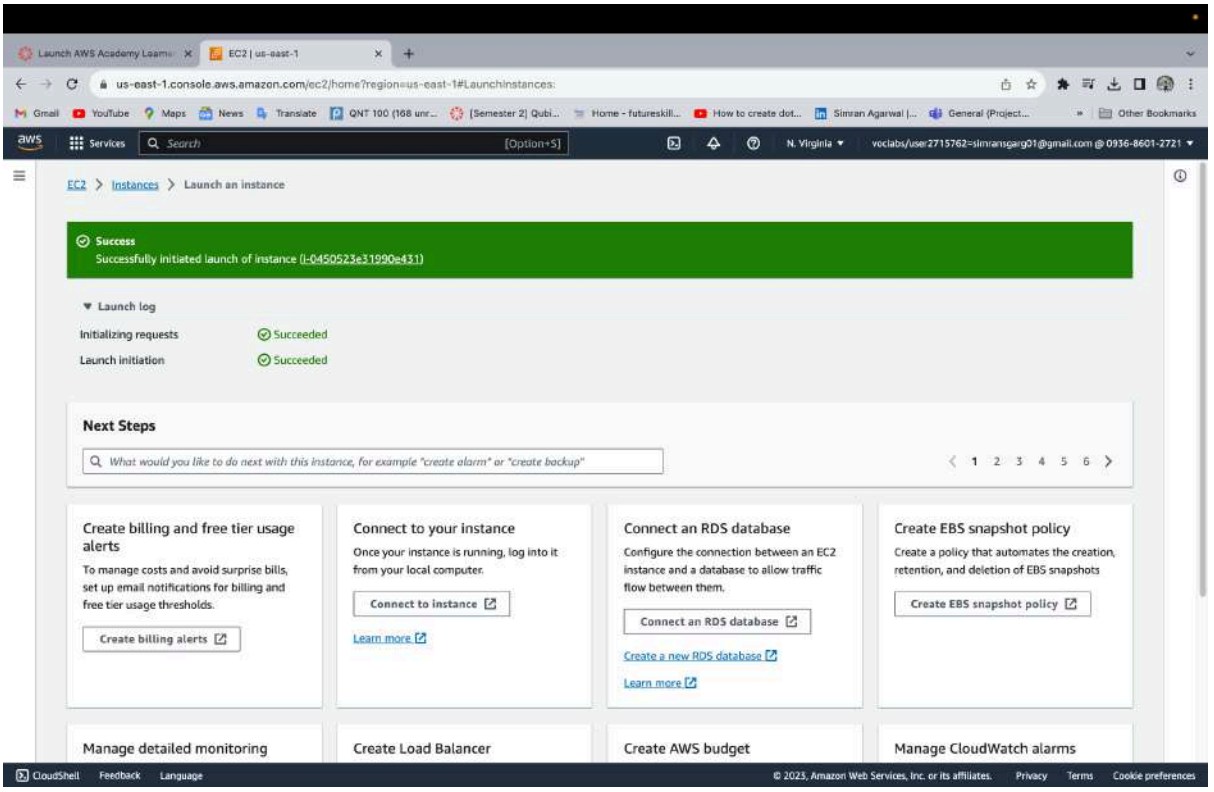
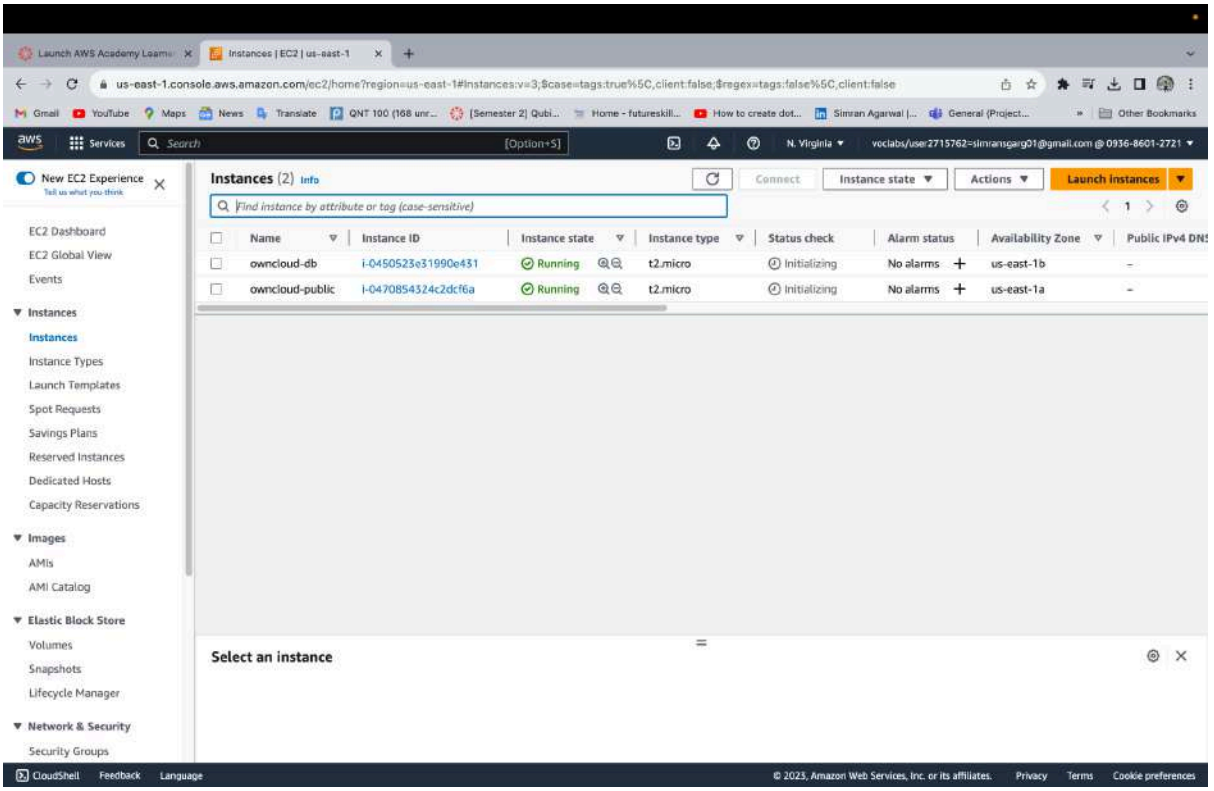
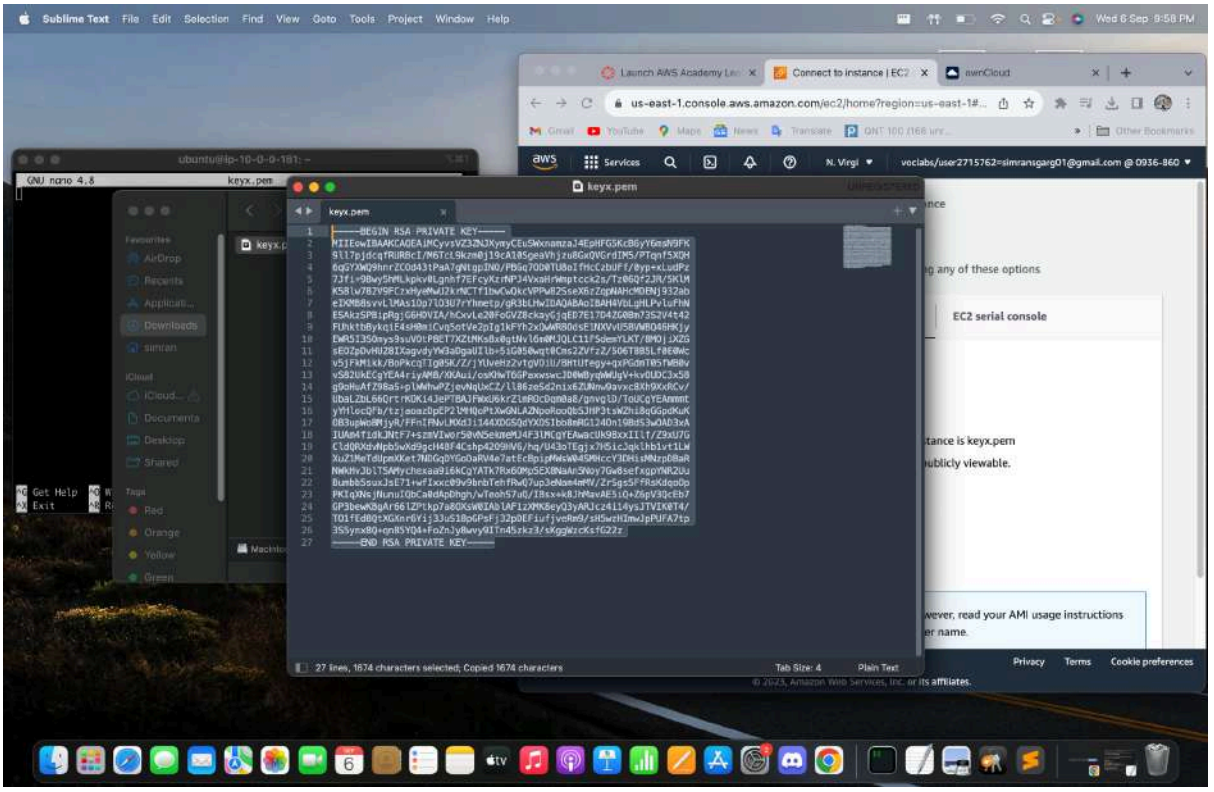
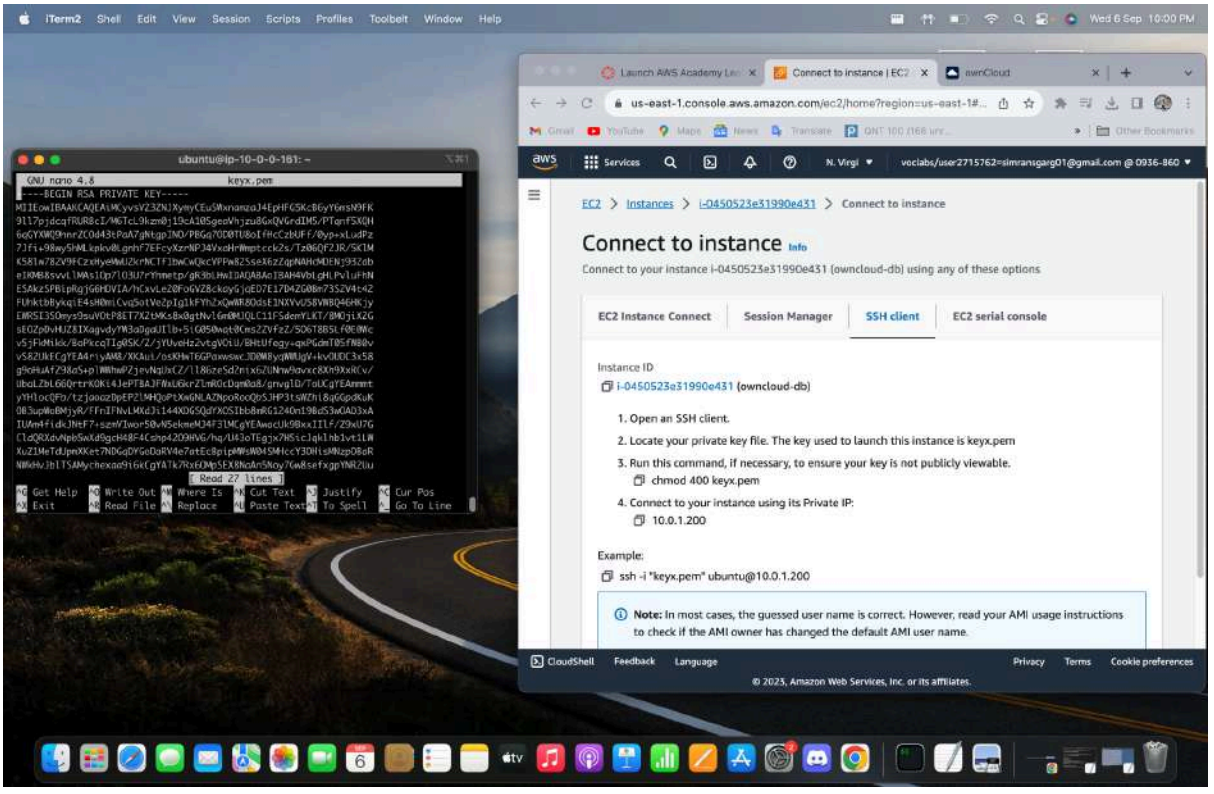
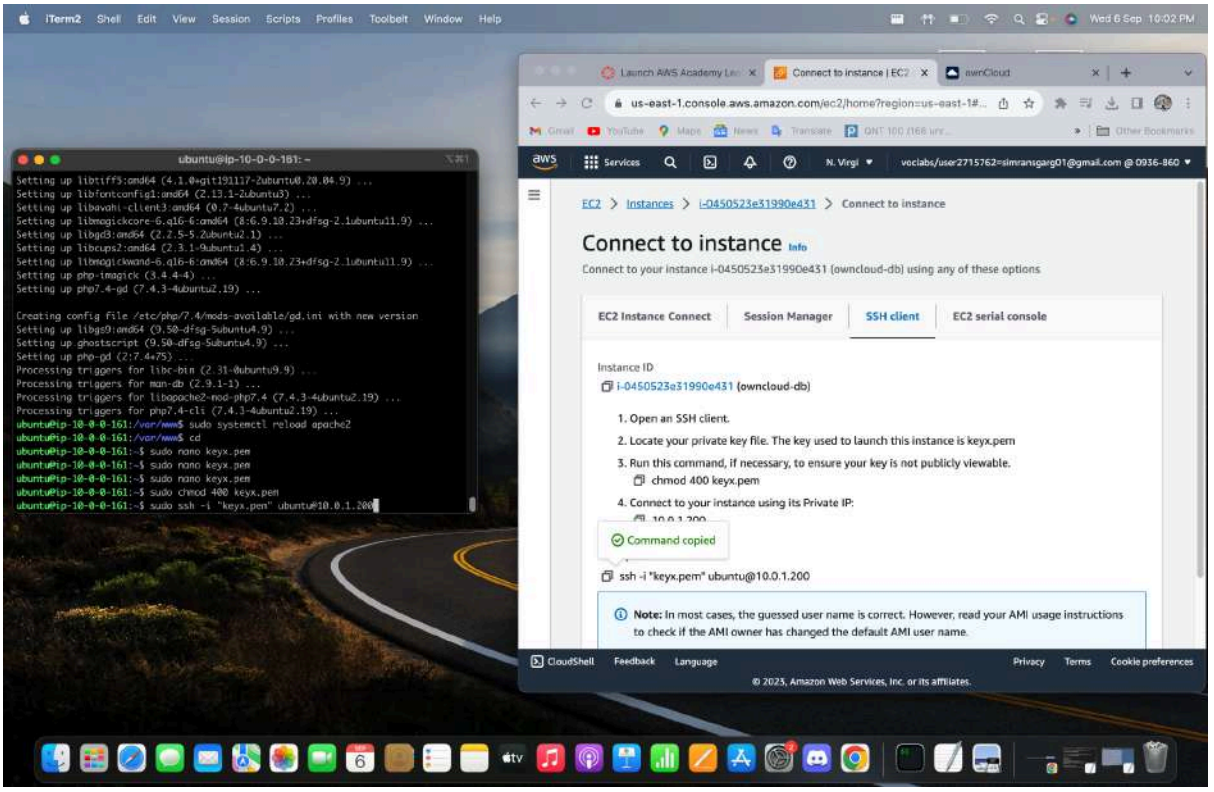

EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-0450523e31990e431)
Launch log
Initializing requests
Succeeded
Launch initiation
Succeeded
Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"
Create billing 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
Manage detailed monitoring
Create Load Balancer
Create AWS budget
Manage CloudWatch alarms


Instances (2) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
owncloud-db
i-0450523e31990e431
Running
t2.micro
Initializing
No alarms
us-east-1b
owncloud-public
i-047085424c2dcf6a
Running
t2.micro
Initializing
No alarms
us-east-1a
Select an instance


Sublime Text File Edit Selection Find View Goto Tools Project Window Help
Wed 6 Sep 9:58 PM
keyx.pem
-----BEGIN RSA PRIVATE KEY-----
-----END RSA PRIVATE KEY-----
27 lines, 1674 characters selected; Copied 1674 characters
Tab Size: 4
Plain Text
Connect to instance | EC2
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
EC2 serial console
Privacy
Terms
Cookie preferences


iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:00 PM
ubuntu@ip-10-0-0-181: ~
GNU nano 4.8
keyx.pem
-----BEGIN RSA PRIVATE KEY-----
[ Read 27 lines ]
Connect to instance | EC2
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
EC2 > Instances > i-0450523e31990e431 > Connect to instance
Connect to instance Info
Connect to your instance i-0450523e31990e431 (owncloud-db) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0450523e31990e431 (owncloud-db)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is keyx.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Private IP:
10.0.1.200
Example:
ssh -i "keyx.pem" ubuntu@10.0.1.200
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
CloudShell
Feedback
Language
Privacy
Terms
Cookie preferences


iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:02 PM
ubuntu@ip-10-0-0-161: ~
Setting up libtiff5:amd64 (4.1.0+git191117-2ubuntu0.20.04.9) ...
Setting up libfontconfig1:amd64 (2.13.1-2ubuntu3) ...
Setting up libavahi-client3:amd64 (0.7-4ubuntu7.2) ...
Setting up libmagickcore-6.q16-6:amd64 (8:6.9.10.23+dfsg-2.1ubuntu11.9) ...
Setting up libgd3:amd64 (2.2.5-5.2ubuntu2.1) ...
Setting up libcups2:amd64 (2.3.1-9ubuntu1.4) ...
Setting up libmagickwand-6.q16-6:amd64 (8:6.9.10.23+dfsg-2.1ubuntu11.9) ...
Setting up php-imagick (3.4.4-4) ...
Setting up php7.4-gd (7.4.3-4ubuntu2.19) ...
Creating config file /etc/php/7.4/mods-available/gd.ini with new version
Setting up libgs9:amd64 (9.50~dfsg-5ubuntu4.9) ...
Setting up ghostscript (9.50~dfsg-5ubuntu4.9) ...
Setting up php-gd (2:7.4+75) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libapache2-mod-php7.4 (7.4.3-4ubuntu2.19) ...
Processing triggers for php7.4-cli (7.4.3-4ubuntu2.19) ...
ubuntu@ip-10-0-0-161:/var/www$ sudo systemctl reload apache2
ubuntu@ip-10-0-0-161:/var/www$ cd
ubuntu@ip-10-0-0-161:~$ sudo nano keyx.pem
ubuntu@ip-10-0-0-161:~$ sudo nano keyx.pem
ubuntu@ip-10-0-0-161:~$ sudo nano keyx.pem
ubuntu@ip-10-0-0-161:~$ sudo chmod 400 keyx.pem
ubuntu@ip-10-0-0-161:~$ sudo ssh -i "keyx.pem" ubuntu@10.0.1.200
Launch AWS Academy Lec
Connect to instance | EC2
ownCloud
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
Gmail YouTube Maps News Translate QNT 100 (168 unr...
Other Bookmarks
aws Services N. Virgi voclabs/user2715762=simransgarg01@gmail.com @ 0936-860
EC2 > Instances > i-0450523e31990e431 > Connect to instance
Connect to instance Info
Connect to your instance i-0450523e31990e431 (owncloud-db) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0450523e31990e431 (owncloud-db)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is keyx.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Private IP:
Command copied
ssh -i "keyx.pem" ubuntu@10.0.1.200
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
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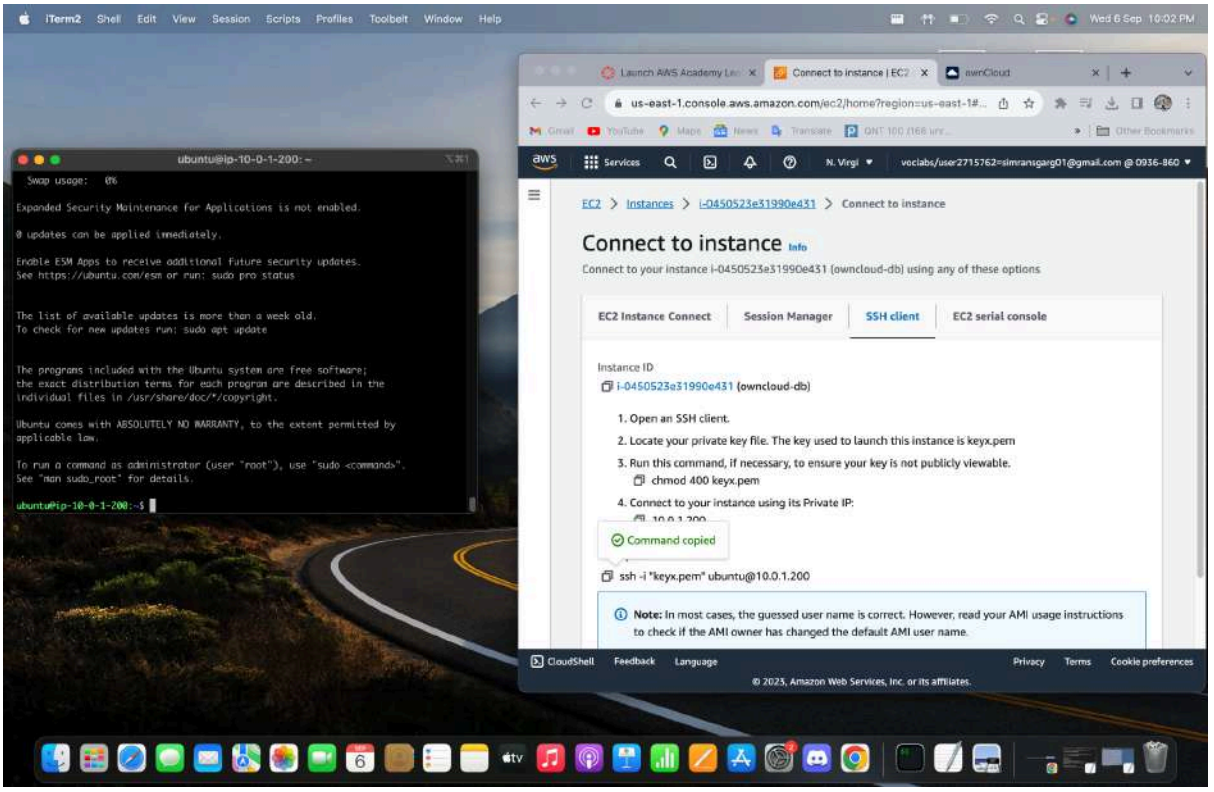
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:02 PM
ubuntu@ip-10-0-1-200: ~
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-10-0-1-200:~$
Launch AWS Academy Lec
Connect to instance | EC2
ownCloud
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
Gmail YouTube Maps News Translate QNT 100 (168 unr...
Other Bookmarks
aws Services N. Virgi voclabs/user2715762=simransgarg01@gmail.com @ 0936-860
EC2 > Instances > i-0450523e31990e431 > Connect to instance
Connect to instance Info
Connect to your instance i-0450523e31990e431 (owncloud-db) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0450523e31990e431 (owncloud-db)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is keyx.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Private IP:
Command copied
ssh -i "keyx.pem" ubuntu@10.0.1.200
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
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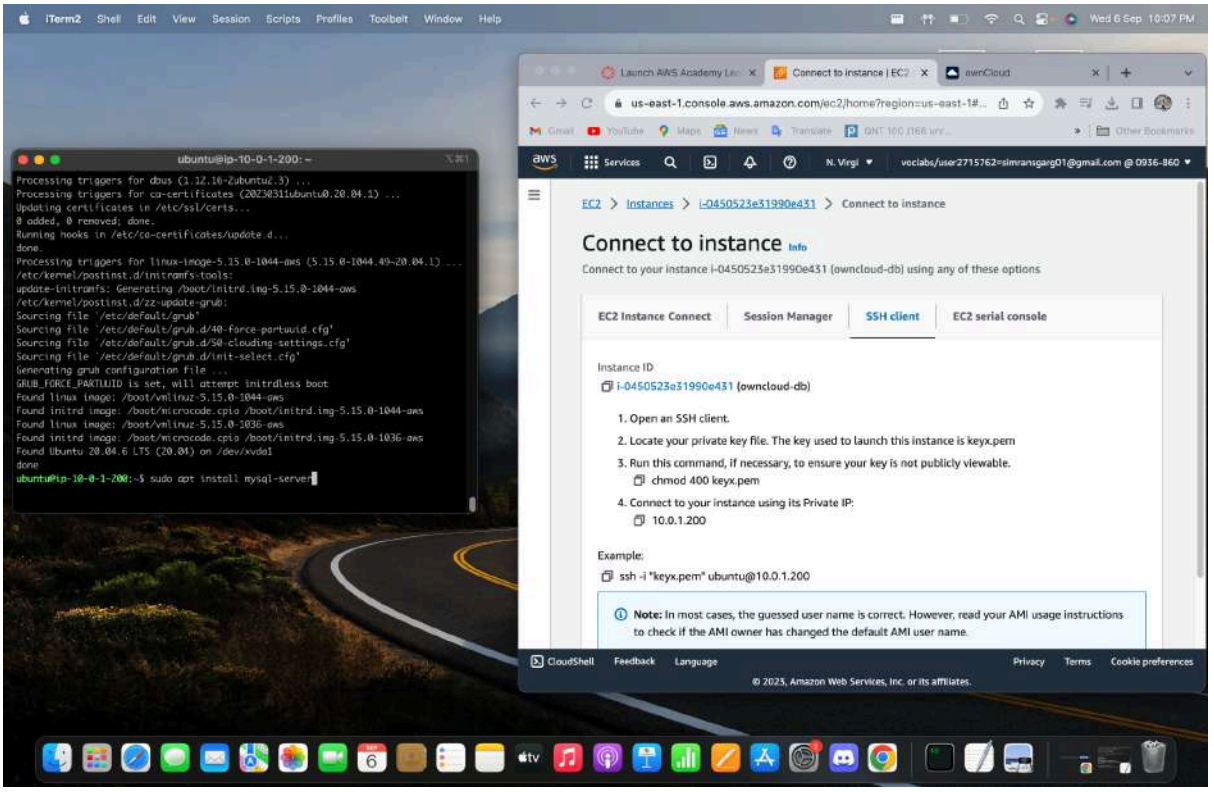
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:07 PM
ubuntu@ip-10-0-1-200: ~
Processing triggers for dbus (1.12.16-2ubuntu2.3) ...
Processing triggers for ca-certificates (20230311ubuntu0.20.04.1) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
Processing triggers for linux-image-5.15.0-1044-aws (5.15.0-1044.49~20.04.1) ...
/etc/kernel/postinst.d/initramfs-tools:
update-initramfs: Generating /boot/initrd.img-5.15.0-1044-aws
/etc/kernel/postinst.d/zz-update-grub:
Sourcing file `/etc/default/grub'
Sourcing file `/etc/default/grub.d/40-force-partuuid.cfg'
Sourcing file `/etc/default/grub.d/50-cloudimg-settings.cfg'
Sourcing file `/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
GRUB_FORCE_PARTUUID is set, will attempt initrdless boot
Found linux image: /boot/vmlinuz-5.15.0-1044-aws
Found initrd image: /boot/microcode.cpio /boot/initrd.img-5.15.0-1044-aws
Found linux image: /boot/vmlinuz-5.15.0-1036-aws
Found initrd image: /boot/microcode.cpio /boot/initrd.img-5.15.0-1036-aws
Found Ubuntu 20.04.6 LTS (20.04) on /dev/xvda1
done
ubuntu@ip-10-0-1-200:~$ sudo apt install mysql-server
Launch AWS Academy Lec
Connect to instance | EC2
awnCloud
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
Services
N. Virgi
voclabs/user2715762=simransgarg01@gmail.com @ 0936-860
EC2 > Instances > i-0450523e31990e431 > Connect to instance
Connect to instance Info
Connect to your instance i-0450523e31990e431 (owncloud-db) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0450523e31990e431 (owncloud-db)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is keyx.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
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Example:
ssh -i "keyx.pem" ubuntu@10.0.1.200
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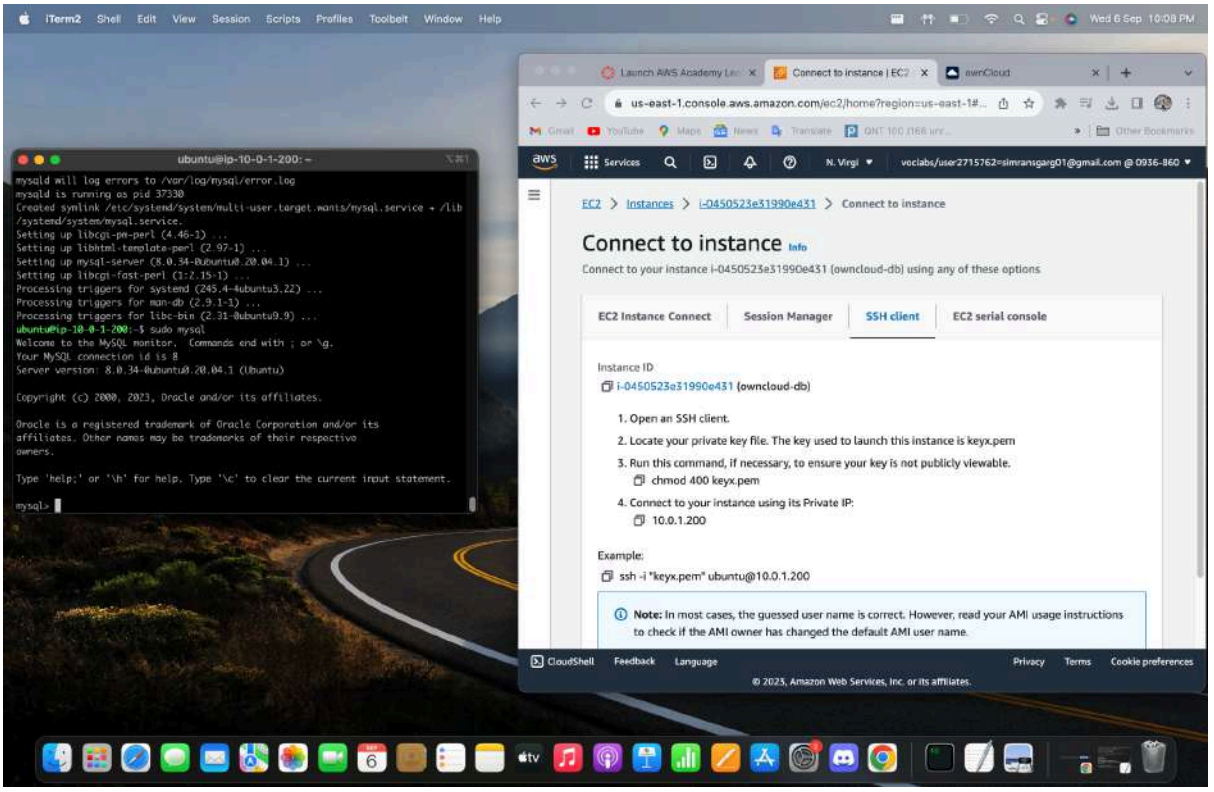
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:08 PM
ubuntu@ip-10-0-1-200: ~
mysqld will log errors to /var/log/mysql/error.log
mysqld is running as pid 37330
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service → /lib/systemd/system/mysql.service.
Setting up libcgi-pm-perl (4.46-1) ...
Setting up libhtml-template-perl (2.97-1) ...
Setting up mysql-server (8.0.34-0ubuntu0.20.04.1) ...
Setting up libcgi-fast-perl (1:2.15-1) ...
Processing triggers for systemd (245.4-4ubuntu3.22) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
ubuntu@ip-10-0-1-200:~$ sudo mysql
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.34-0ubuntu0.20.04.1 (Ubuntu)
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Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql>
Launch AWS Academy Lec
Connect to instance | EC2
awnCloud
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
Services
N. Virgi
voclabs/user2715762=simransgarg01@gmail.com @ 0936-860
EC2 > Instances > i-0450523e31990e431 > Connect to instance
Connect to instance Info
Connect to your instance i-0450523e31990e431 (owncloud-db) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0450523e31990e431 (owncloud-db)
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10.0.1.200
Example:
ssh -i "keyx.pem" ubuntu@10.0.1.200
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
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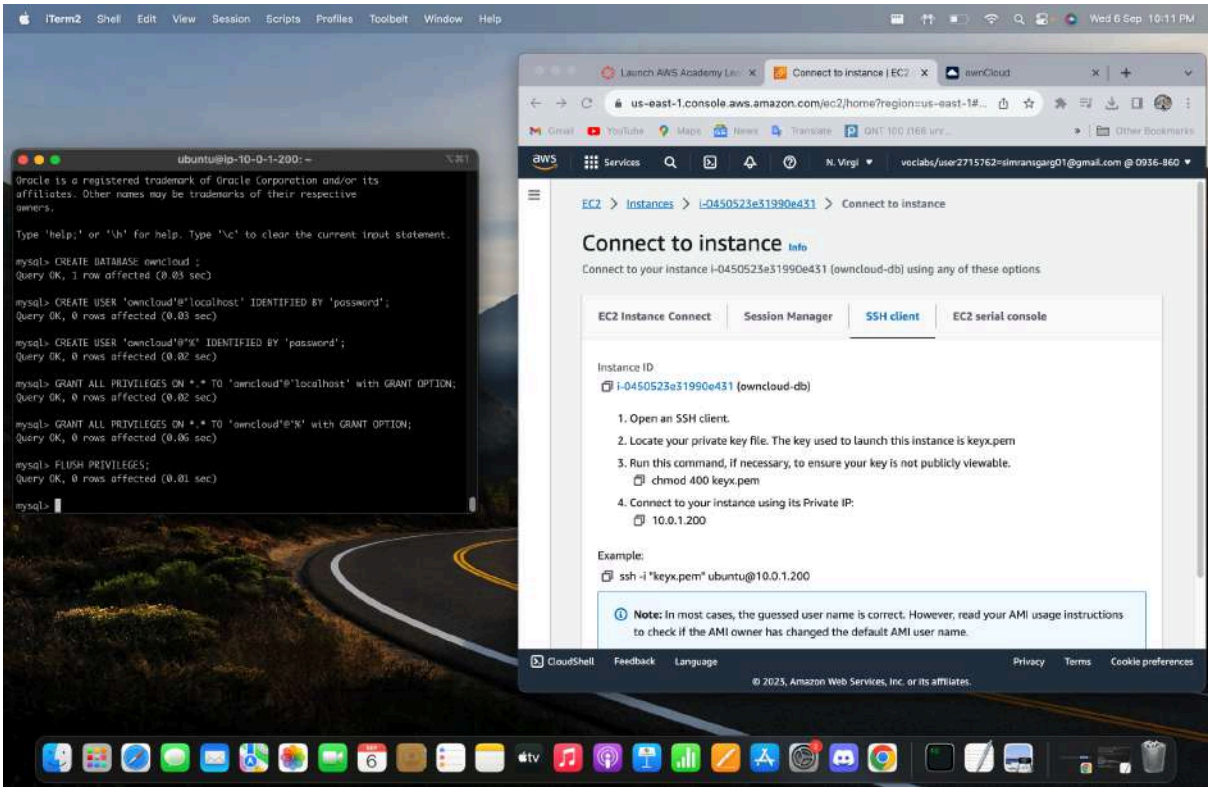
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:11 PM
ubuntu@ip-10-0-1-200: ~
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> CREATE DATABASE owncloud ;
Query OK, 1 row affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'%' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'localhost' with GRANT OPTION;
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'%' with GRANT OPTION;
Query OK, 0 rows affected (0.06 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
mysql>
Launch AWS Academy Lec
Connect to instance | EC2
ownCloud
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
Gmail YouTube Maps News Translate QNT 100 (168 unr...
Other Bookmarks
aws Services N. Virgi voclabs/user2715762=simransgarg01@gmail.com @ 0936-860
EC2 > Instances > i-0450523e31990e431 > Connect to instance
Connect to instance Info
Connect to your instance i-0450523e31990e431 (owncloud-db) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0450523e31990e431 (owncloud-db)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is keyx.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Private IP:
10.0.1.200
Example:
ssh -i "keyx.pem" ubuntu@10.0.1.200
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
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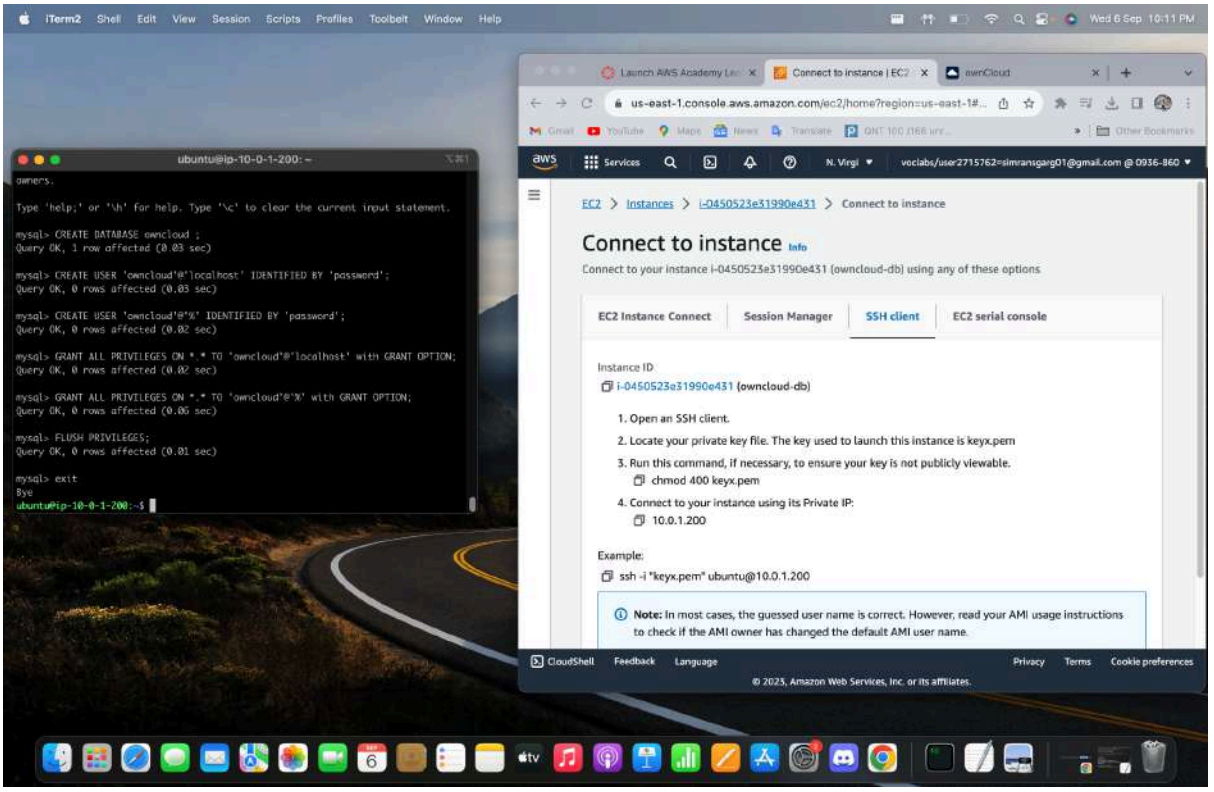
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:11 PM
ubuntu@ip-10-0-1-200: ~
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> CREATE DATABASE owncloud ;
Query OK, 1 row affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'%' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'localhost' with GRANT OPTION;
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'%' with GRANT OPTION;
Query OK, 0 rows affected (0.06 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
mysql> exit
Bye
ubuntu@ip-10-0-1-200:~$
Launch AWS Academy Lec
Connect to instance | EC2
ownCloud
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
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EC2 > Instances > i-0450523e31990e431 > Connect to instance
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3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Private IP:
10.0.1.200
Example:
ssh -i "keyx.pem" ubuntu@10.0.1.200
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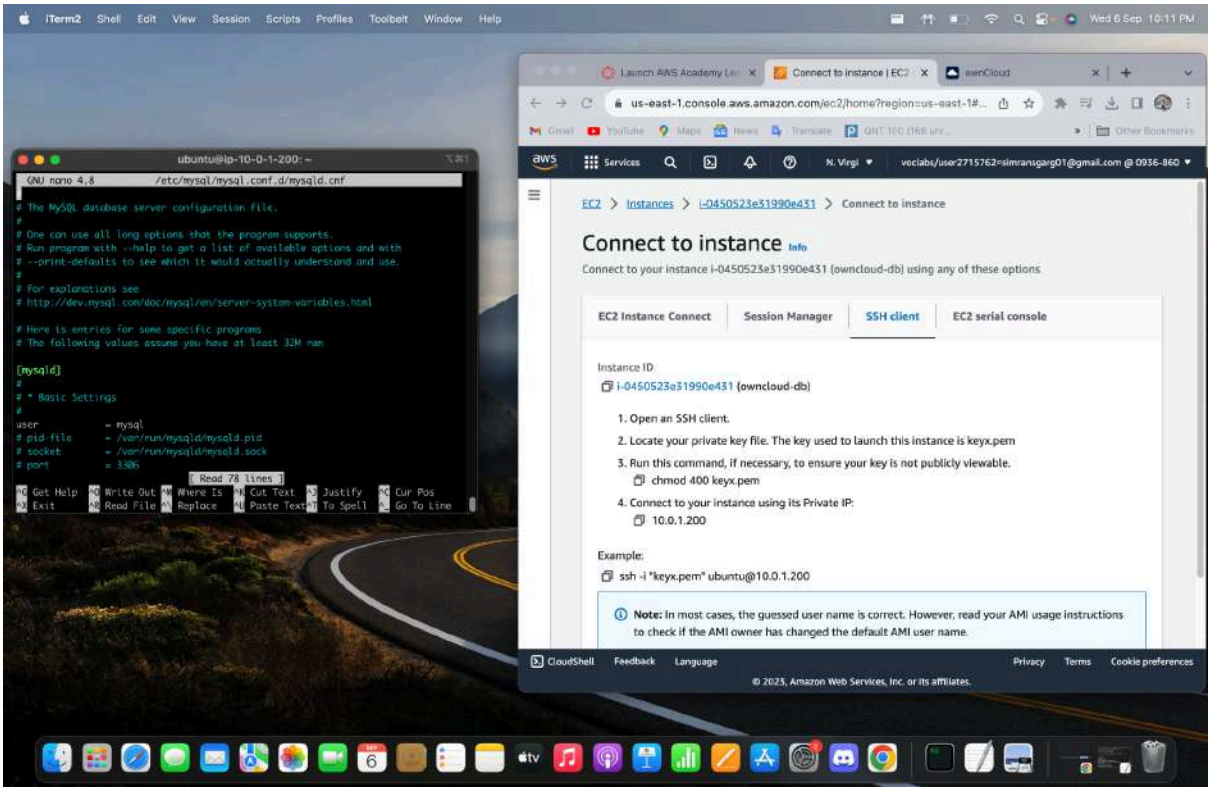
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:11 PM
ubuntu@ip-10-0-1-200: ~
GNU nano 4.8 /etc/mysql/mysql.conf.d/mysqld.cnf
# The MySQL database server configuration file.
# One can use all long options that the program supports.
# Run program with --help to get a list of available options and with
# --print-defaults to see which it would actually understand and use.
# For explanations see
# http://dev.mysql.com/doc/mysql/en/server-system-variables.html
# Here is entries for some specific programs
# The following values assume you have at least 32M ram
[mysqld]
# * Basic Settings
user = mysql
# pid-file = /var/run/mysqld/mysqld.pid
# socket = /var/run/mysqld/mysqld.sock
# port = 3306
[ Read 78 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
Launch AWS Academy Lec
Connect to instance | EC2
ownCloud
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
Services
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EC2 > Instances > i-0450523e31990e431 > Connect to instance
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ssh -i "keyx.pem" ubuntu@10.0.1.200
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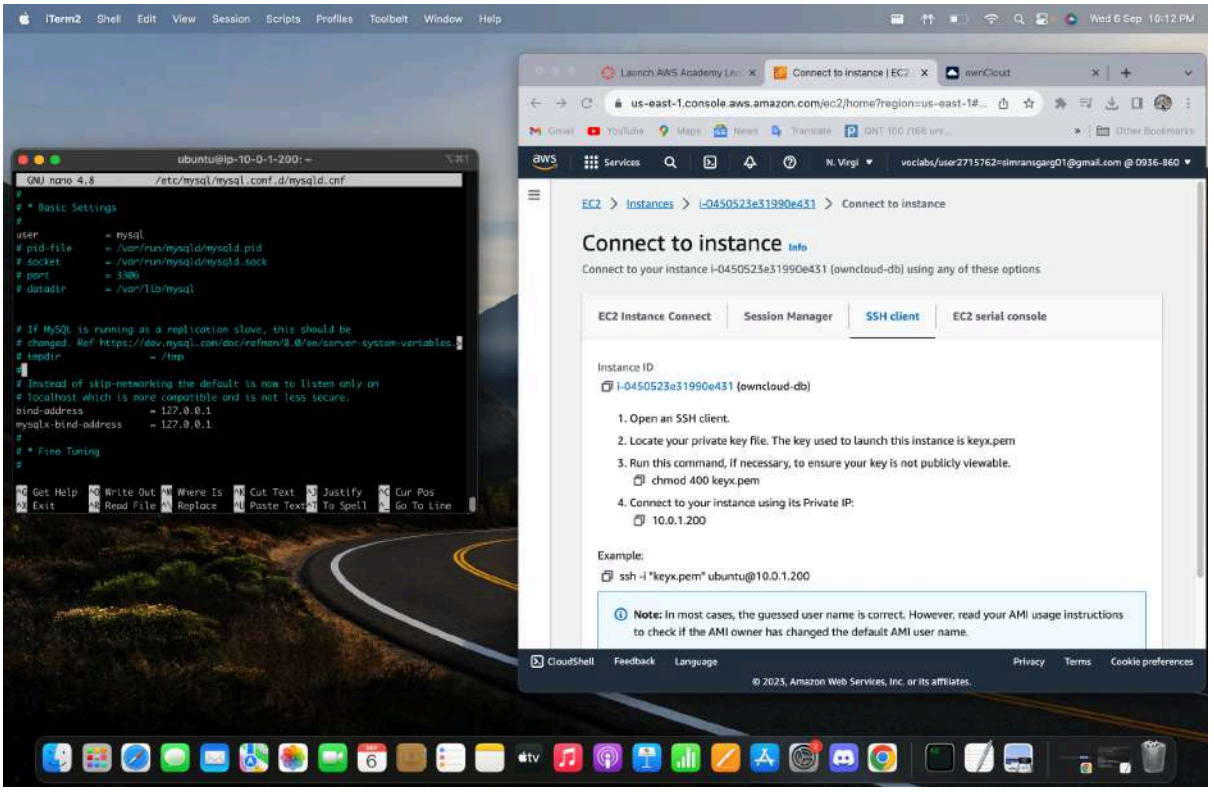
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:12 PM
ubuntu@ip-10-0-1-200: ~
GNU nano 4.8 /etc/mysql/mysql.conf.d/mysqld.cnf
# * Basic Settings
user = mysql
# pid-file = /var/run/mysqld/mysqld.pid
# socket = /var/run/mysqld/mysqld.sock
# port = 3306
# datadir = /var/lib/mysql
# If MySQL is running as a replication slave, this should be
# changed. Ref https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.
# tmpdir = /tmp
# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
bind-address = 127.0.0.1
mysqlx-bind-address = 127.0.0.1
# * Fine Tuning
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
Launch AWS Academy Lec
Connect to instance | EC2
ownCloud
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
Services
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voclabs/user2715762=simransgarg01@gmail.com @ 0936-860
EC2 > Instances > i-0450523e31990e431 > Connect to instance
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3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Private IP:
10.0.1.200
Example:
ssh -i "keyx.pem" ubuntu@10.0.1.200
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
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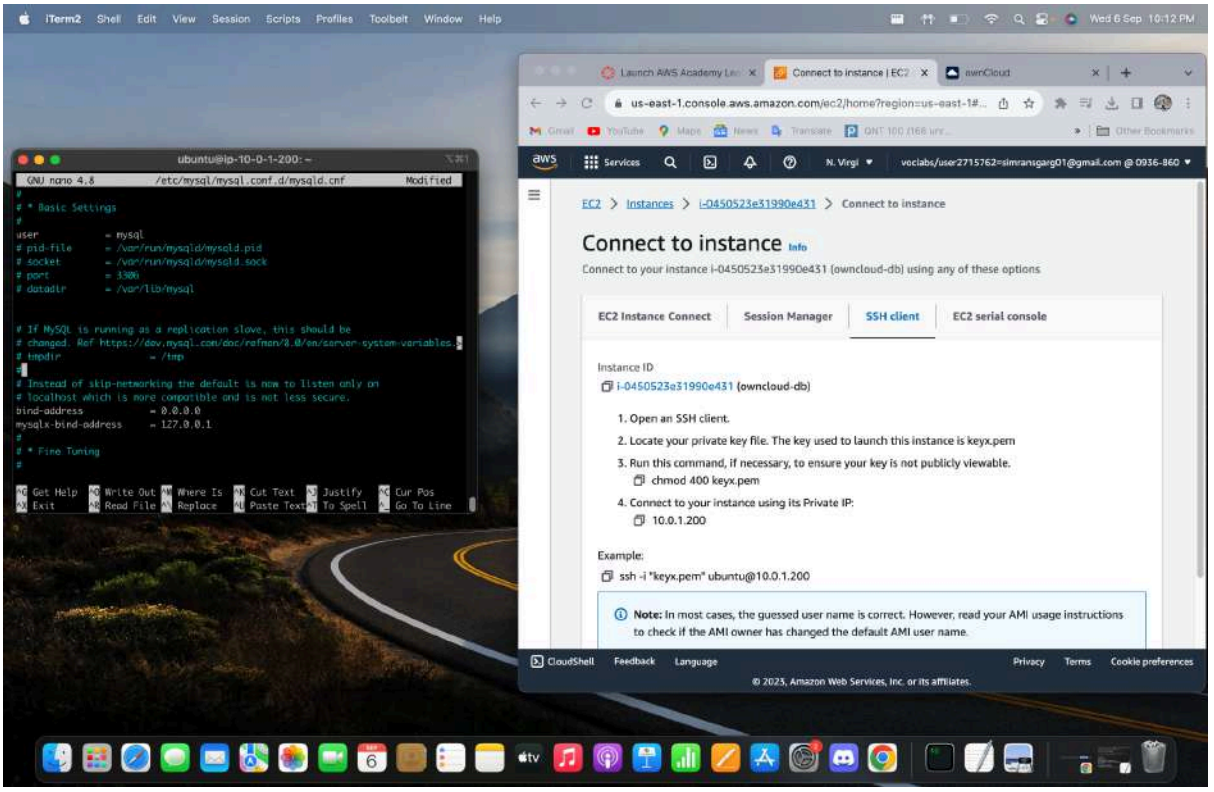
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:12 PM
ubuntu@ip-10-0-1-200: ~
GNU nano 4.8 /etc/mysql/mysql.conf.d/mysqld.cnf Modified
# * Basic Settings
user = mysql
# pid-file = /var/run/mysqld/mysqld.pid
# socket = /var/run/mysqld/mysqld.sock
# port = 3306
# datadir = /var/lib/mysql
# If MySQL is running as a replication slave, this should be
# changed. Ref https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.
# tmpdir = /tmp
# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
bind-address = 0.0.0.0
mysqlx-bind-address = 127.0.0.1
# * Fine Tuning
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
Services N. Virgi voclabs/user2715762=simransgarg01@gmail.com @ 0936-860
EC2 > Instances > i-0450523e31990e431 > Connect to instance
Connect to instance Info
Connect to your instance i-0450523e31990e431 (owncloud-db) using any of these options
EC2 Instance Connect Session Manager SSH client EC2 serial console
Instance ID
i-0450523e31990e431 (owncloud-db)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is keyx.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Private IP:
10.0.1.200
Example:
ssh -i "keyx.pem" ubuntu@10.0.1.200
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
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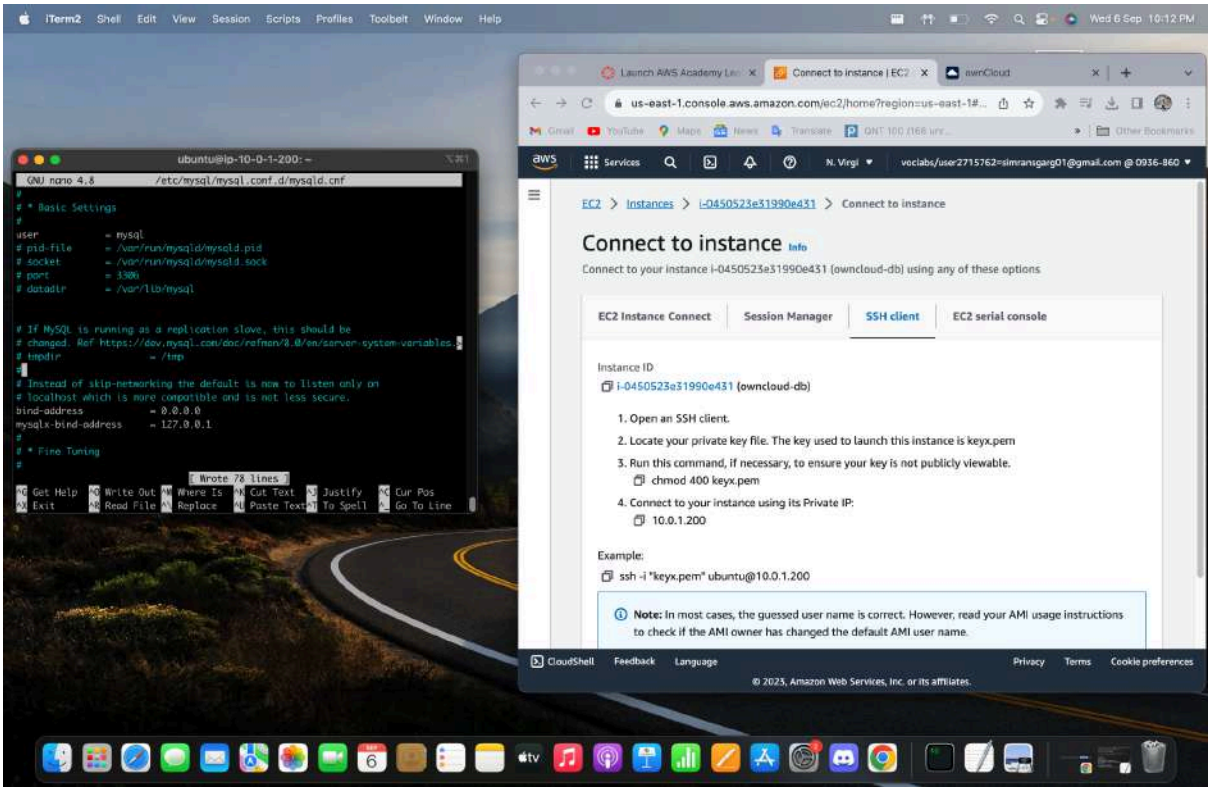
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:12 PM
ubuntu@ip-10-0-1-200: ~
GNU nano 4.8 /etc/mysql/mysql.conf.d/mysqld.cnf
# * Basic Settings
user = mysql
# pid-file = /var/run/mysqld/mysqld.pid
# socket = /var/run/mysqld/mysqld.sock
# port = 3306
# datadir = /var/lib/mysql
# If MySQL is running as a replication slave, this should be
# changed. Ref https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.
# tmpdir = /tmp
# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
bind-address = 0.0.0.0
mysqlx-bind-address = 127.0.0.1
# * Fine Tuning
[ Wrote 78 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
Services N. Virgi voclabs/user2715762=simransgarg01@gmail.com @ 0936-860
EC2 > Instances > i-0450523e31990e431 > Connect to instance
Connect to instance Info
Connect to your instance i-0450523e31990e431 (owncloud-db) using any of these options
EC2 Instance Connect Session Manager SSH client EC2 serial console
Instance ID
i-0450523e31990e431 (owncloud-db)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is keyx.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Private IP:
10.0.1.200
Example:
ssh -i "keyx.pem" ubuntu@10.0.1.200
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
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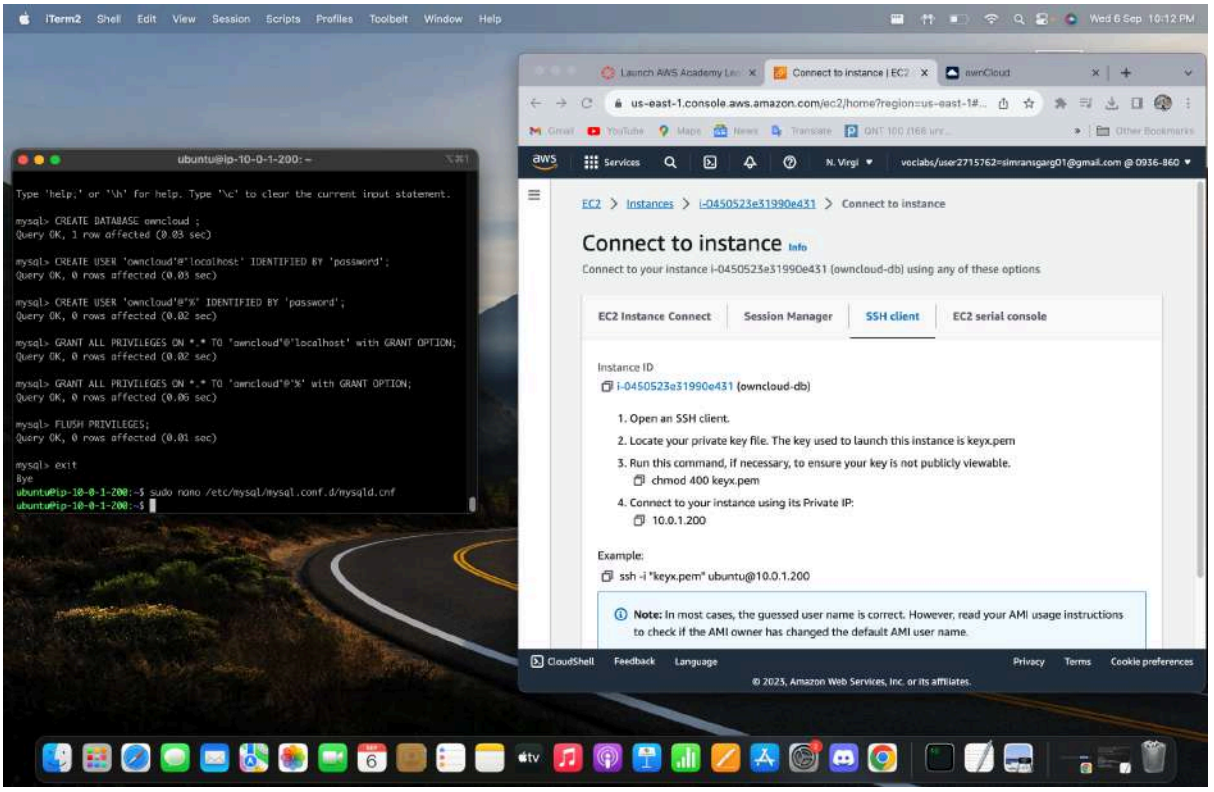
iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:12 PM
ubuntu@ip-10-0-1-200: ~
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> CREATE DATABASE owncloud ;
Query OK, 1 row affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'%' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'localhost' with GRANT OPTION;
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'%' with GRANT OPTION;
Query OK, 0 rows affected (0.06 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
mysql> exit
Bye
ubuntu@ip-10-0-1-200:~$ sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-10-0-1-200:~$
Launch AWS Academy Le
Connect to instance | EC2
ownCloud
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#...
aws
Services
N. Virgi
voclabs/user2715762=simransgarg01@gmail.com @ 0936-860
EC2 > Instances > i-0450523e31990e431 > Connect to instance
Connect to instance Info
Connect to your instance i-0450523e31990e431 (owncloud-db) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0450523e31990e431 (owncloud-db)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is keyx.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 keyx.pem
4. Connect to your instance using its Private IP:
10.0.1.200
Example:
ssh -i "keyx.pem" ubuntu@10.0.1.200
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
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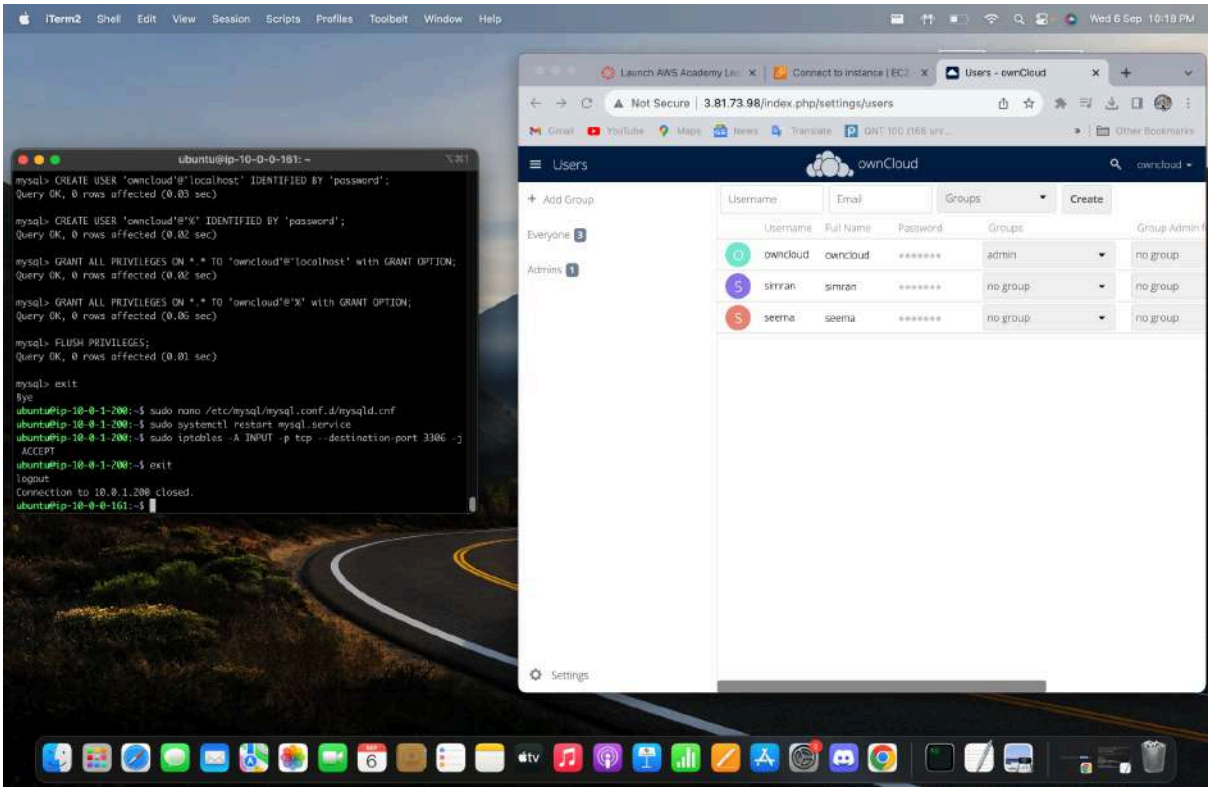

iTerm2 Shell Edit View Session Scripts Profiles Toolbelt Window Help
Wed 6 Sep 10:18 PM
ubuntu@ip-10-0-0-161: ~
mysql> CREATE USER 'owncloud'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'%' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'localhost' with GRANT OPTION;
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'%' with GRANT OPTION;
Query OK, 0 rows affected (0.06 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
mysql> exit
Bye
ubuntu@ip-10-0-1-200:~$ sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-10-0-1-200:~$ sudo systemctl restart mysql.service
ubuntu@ip-10-0-1-200:~$ sudo iptables -A INPUT -p tcp --destination-port 3306 -j
ACCEPT
ubuntu@ip-10-0-1-200:~$ exit
logout
Connection to 10.0.1.200 closed.
ubuntu@ip-10-0-0-161:~$
Launch AWS Academy Le
Connect to instance | EC2
Users - ownCloud
Not Secure | 3.81.73.98/index.php/settings/users
Users
ownCloud
owncloud
Add Group
Everyone 3
Admins 1
Settings
Username
Email
Groups
Create
Username
Full Name
Password
Groups
Group Admin f
owncloud
owncloud
admin
no group
simran
simran
no group
no group
seema
seema
no group
no group

## H. OWNCLOUD ADMIN REGISTRATION:

20. Now, type the Public IP address of the public instance in the URL bar and hit enter.
    “Owncloud Admin Registration Page” (index.php), will open up.

21. Enter the following parameters:

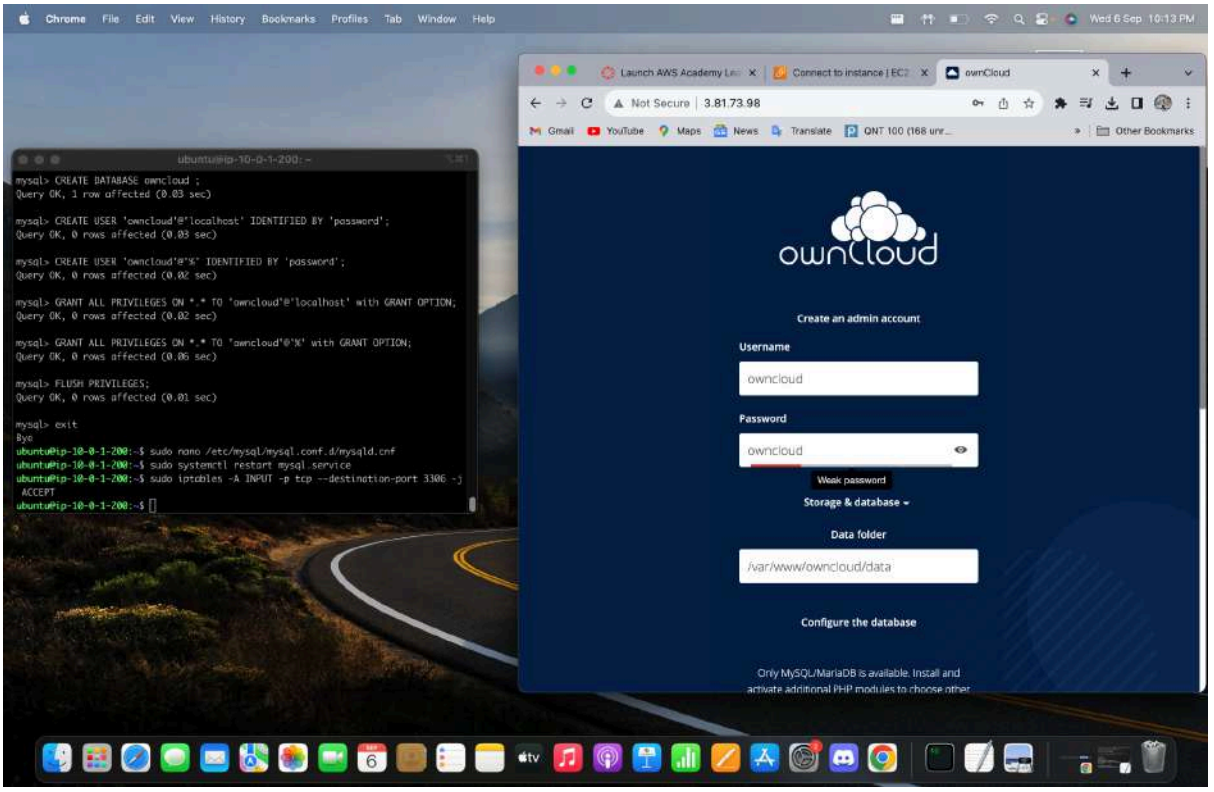
    Username: owncloud
    Password : owncloud

    Data Folder : /var/www/owncloud/data

    Database Username : owncloud
    Database Password : password
    Database Name : owncloud
    Database Host : 10.0.1.200:3306

22. Now, click on Finish Setup.
23. If all the steps are followed correctly so far then you must see a login window.
    Try logging in to owncloud platform using the following credentials.

    Username: owncloud
    Password : owncloud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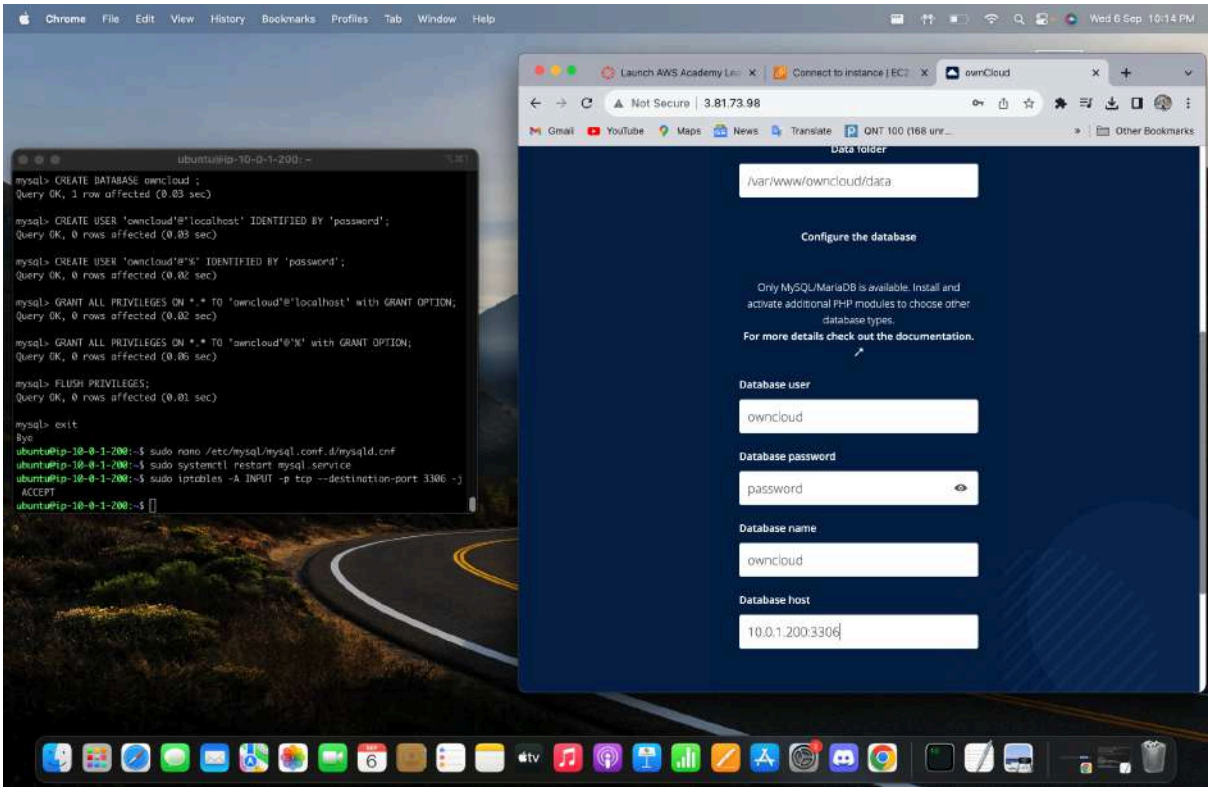
Launch AWS Academy Le
Connect to instance | EC2
ownCloud
Not Secure | 3.81.73.98
Gmail YouTube Maps News Translate QNT 100 (168 unr...
Other Bookmarks
ubuntu@ip-10-0-1-200: ~
mysql> CREATE DATABASE owncloud ;
Query OK, 1 row affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'%' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'localhost' with GRANT OPTION;
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'%' with GRANT OPTION;
Query OK, 0 rows affected (0.06 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
mysql> exit
Bye
ubuntu@ip-10-0-1-200:~$ sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-10-0-1-200:~$ sudo systemctl restart mysql.service
ubuntu@ip-10-0-1-200:~$ sudo iptables -A INPUT -p tcp --destination-port 3306 -j
ACCEPT
ubuntu@ip-10-0-1-200:~$
ownCloud
Create an admin account
Username
owncloud
Password
owncloud
Weak password
Storage & database
Data folder
/var/www/owncloud/data
Configure the database
Only MySQL/MariaDB is available. Install and
activate additional PHP modules to choose other


Chrome File Edit View History Bookmarks Profiles Tab Window Help
Wed 6 Sep 10:14 PM
Launch AWS Academy Le
Connect to instance | EC2
ownCloud
Not Secure | 3.81.73.98
Gmail YouTube Maps News Translate QNT 100 (168 unr...
Other Bookmarks
ubuntu@ip-10-0-1-200: ~
mysql> CREATE DATABASE owncloud ;
Query OK, 1 row affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'%' IDENTIFIED BY 'password';
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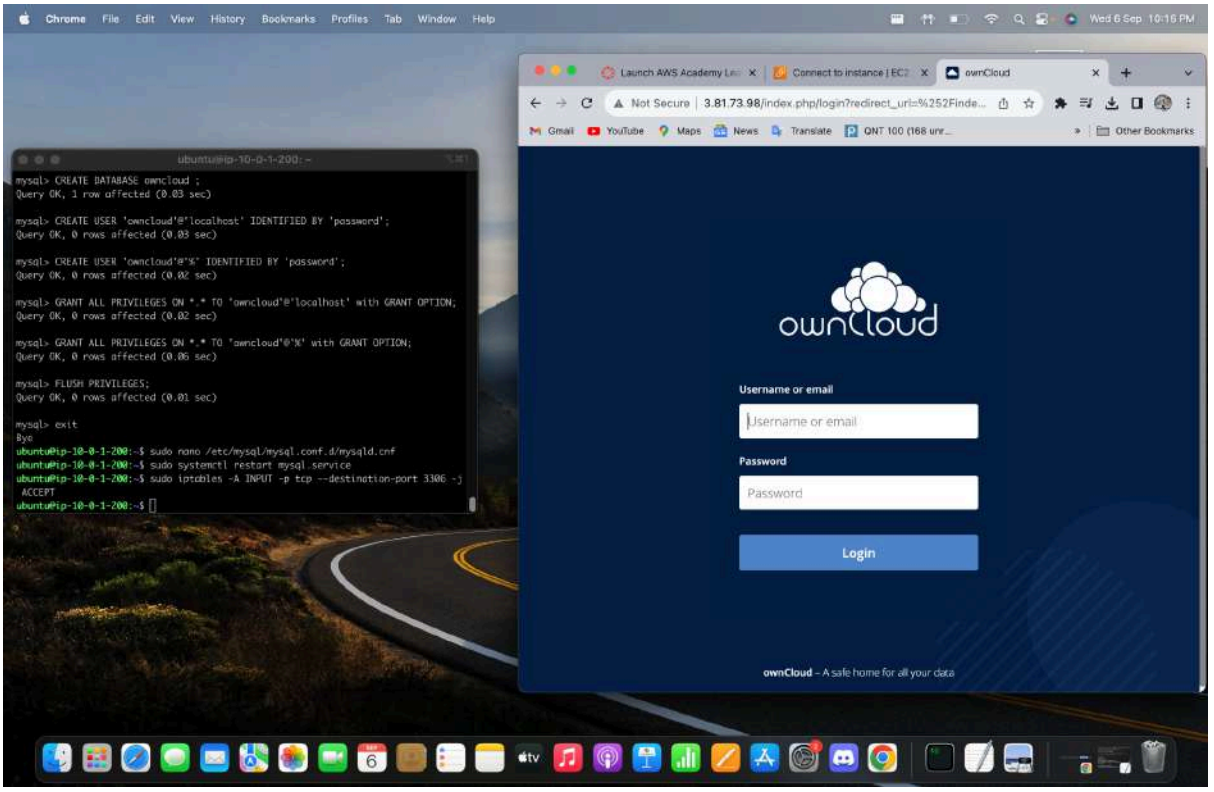
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'localhost' with GRANT OPTION;
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'%' with GRANT OPTION;
Query OK, 0 rows affected (0.06 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
mysql> exit
Bye
ubuntu@ip-10-0-1-200:~$ sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-10-0-1-200:~$ sudo systemctl restart mysql.service
ubuntu@ip-10-0-1-200:~$ sudo iptables -A INPUT -p tcp --destination-port 3306 -j
ACCEPT
ubuntu@ip-10-0-1-200:~$
Data folder
/var/www/owncloud/data
Configure the database
Only MySQL/MariaDB is available. Install and
activate additional PHP modules to choose other
database types.
For more details check out the documentation.
Database user
owncloud
Database password
password
Database name
owncloud
Database host
10.0.1.200:3306


Chrome File Edit View History Bookmarks Profiles Tab Window Help
Wed 6 Sep 10:16 PM
Launch AWS Academy Le
Connect to instance | EC2
ownCloud
Not Secure | 3.81.73.98/index.php/login?redirect_url=%252Finde...
Gmail YouTube Maps News Translate QNT 100 (168 unr... Other Bookmarks
ubuntu@ip-10-0-1-200: ~
mysql> CREATE DATABASE owncloud ;
Query OK, 1 row affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'%' IDENTIFIED BY 'password';
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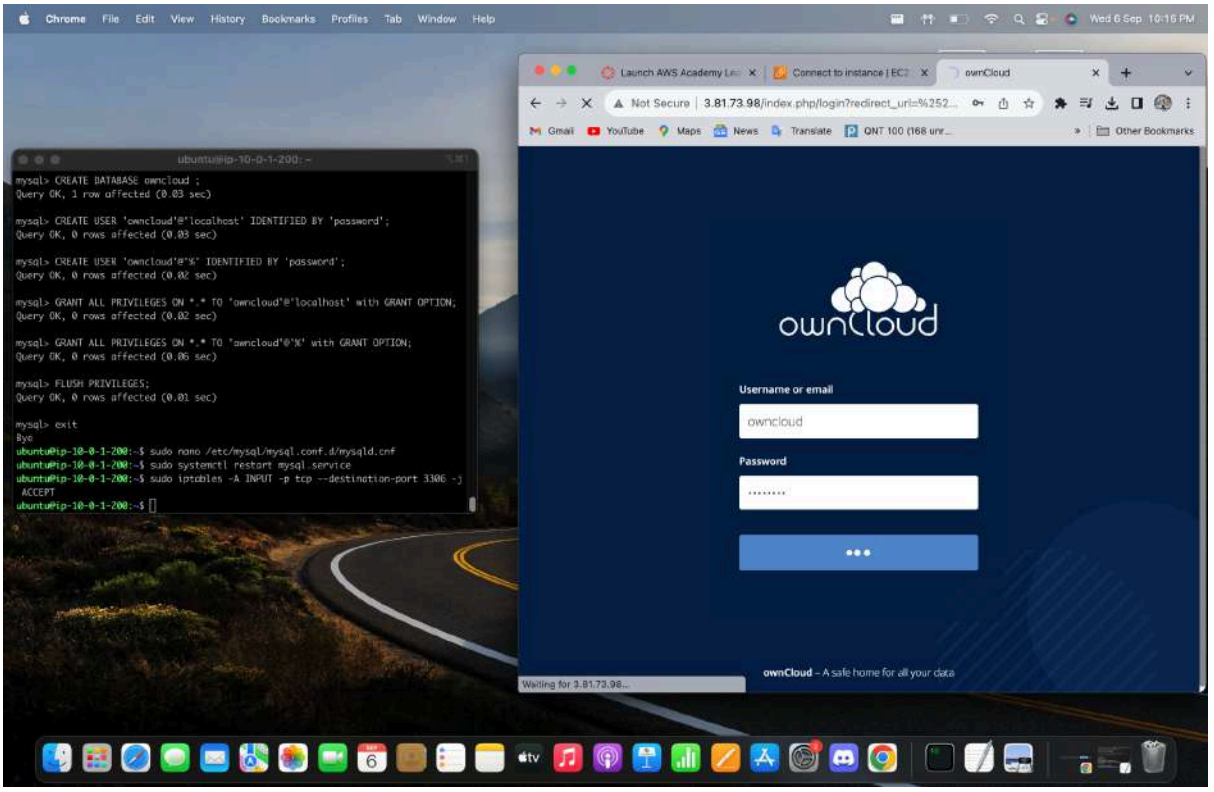
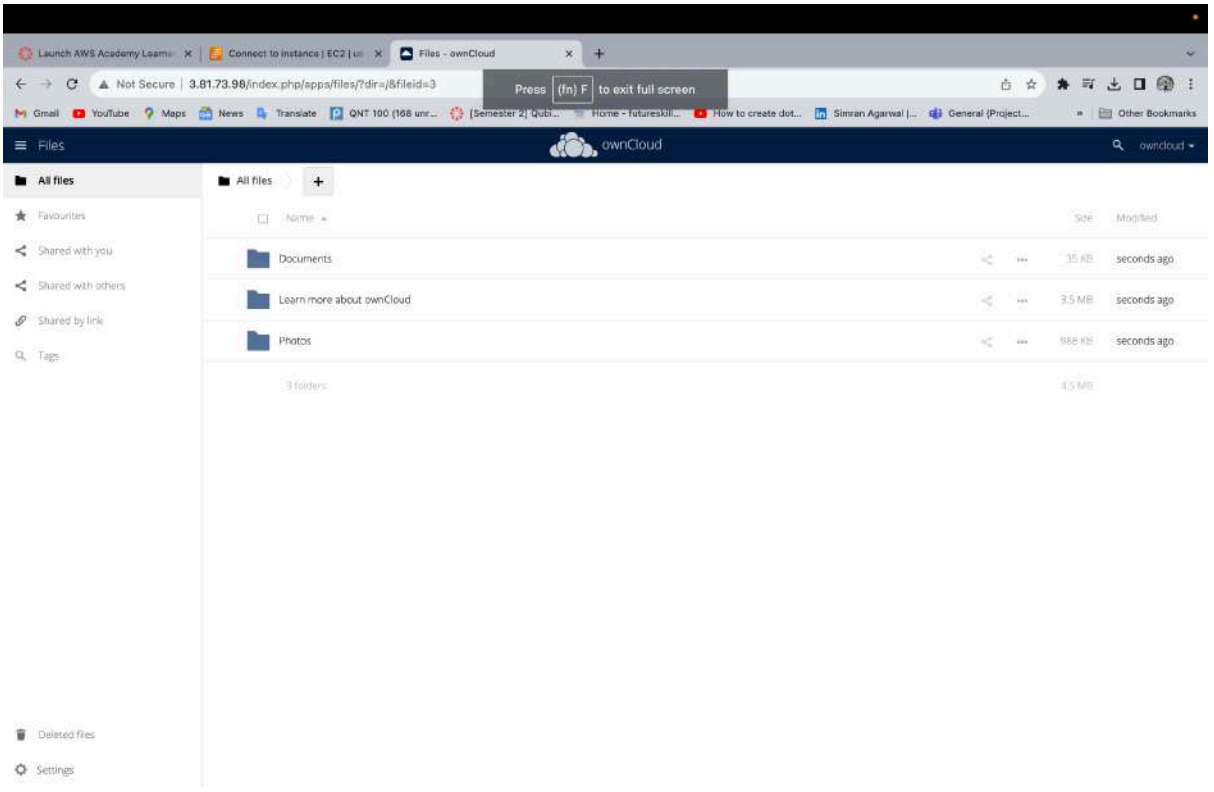
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'%' with GRANT OPTION;
Query OK, 0 rows affected (0.06 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
mysql> exit
Bye
ubuntu@ip-10-0-1-200:~$ sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-10-0-1-200:~$ sudo systemctl restart mysql.service
ubuntu@ip-10-0-1-200:~$ sudo iptables -A INPUT -p tcp --destination-port 3306 -j
ACCEPT
ubuntu@ip-10-0-1-200:~$
ownCloud
Username or email
Username or email
Password
Password
Login
ownCloud – A safe home for all your data


Chrome File Edit View History Bookmarks Profiles Tab Window Help
Wed 6 Sep 10:16 PM
Launch AWS Academy Le
Connect to instance | EC2
ownCloud
Not Secure | 3.81.73.98/index.php/login?redirect_url=%252...
Gmail YouTube Maps News Translate QNT 100 (168 unr... Other Bookmarks
ubuntu@ip-10-0-1-200: ~
mysql> CREATE DATABASE owncloud ;
Query OK, 1 row affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE USER 'owncloud'@'%' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'localhost' with GRANT OPTION;
Query OK, 0 rows affected (0.02 sec)
mysql> GRANT ALL PRIVILEGES ON *.* TO 'owncloud'@'%' with GRANT OPTION;
Query OK, 0 rows affected (0.06 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
mysql> exit
Bye
ubuntu@ip-10-0-1-200:~$ sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-10-0-1-200:~$ sudo systemctl restart mysql.service
ubuntu@ip-10-0-1-200:~$ sudo iptables -A INPUT -p tcp --destination-port 3306 -j
ACCEPT
ubuntu@ip-10-0-1-200:~$
ownCloud
Username or email
owncloud
Password
Waiting for 3.81.73.98...
ownCloud – A safe home for all your data


Launch AWS Academy Learner
Connect to instance | EC2 | us
Files - ownCloud
Not Secure | 3.81.73.98/index.php/apps/files/?dir=/&fileid=3
Press (fn) F to exit full screen
Gmail
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[Semester 2] Quiz...
Home - futureskil...
How to create dot...
Simran Agarwal |...
General (Project...
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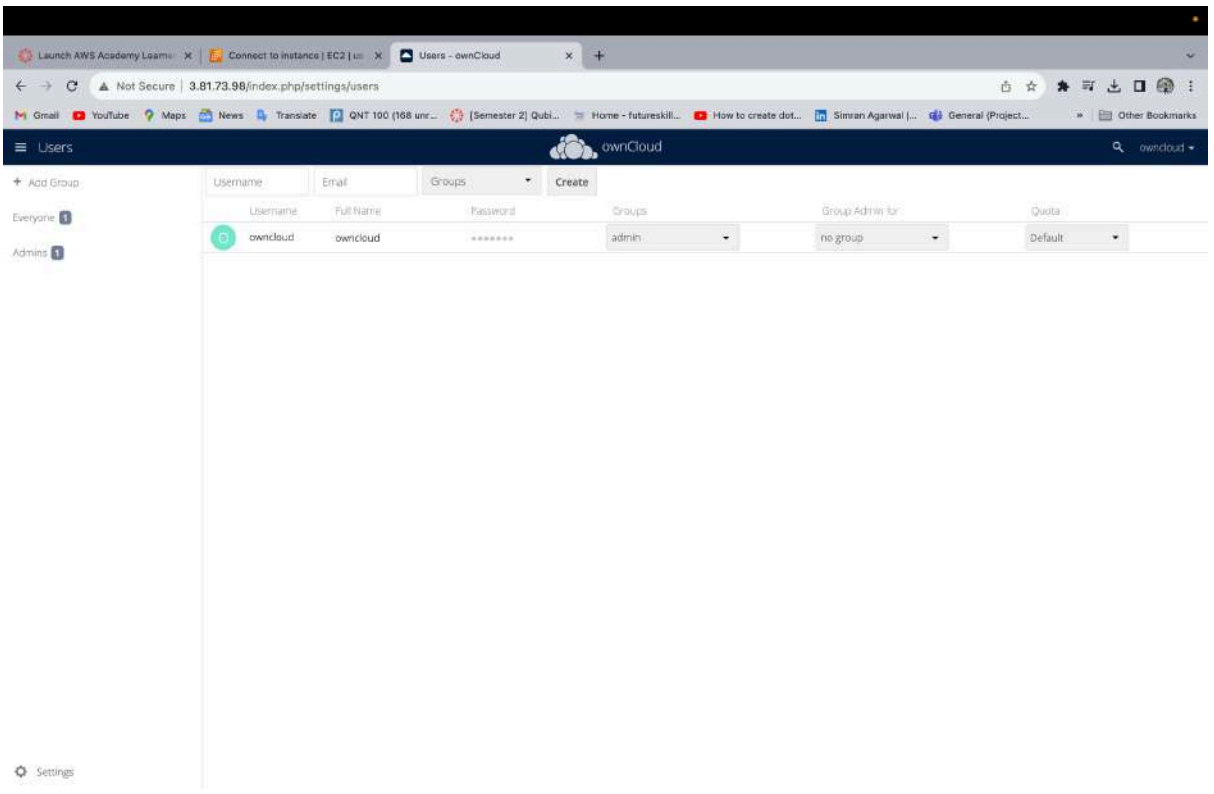
owncloud
All files
Favourites
Shared with you
Shared with others
Shared by link
Tags
Deleted files
Settings
All files
Name
Size
Modified
Documents
35 KB
seconds ago
Learn more about ownCloud
3.5 MB
seconds ago
Photos
988 KB
seconds ago
3 folders
4.5 MB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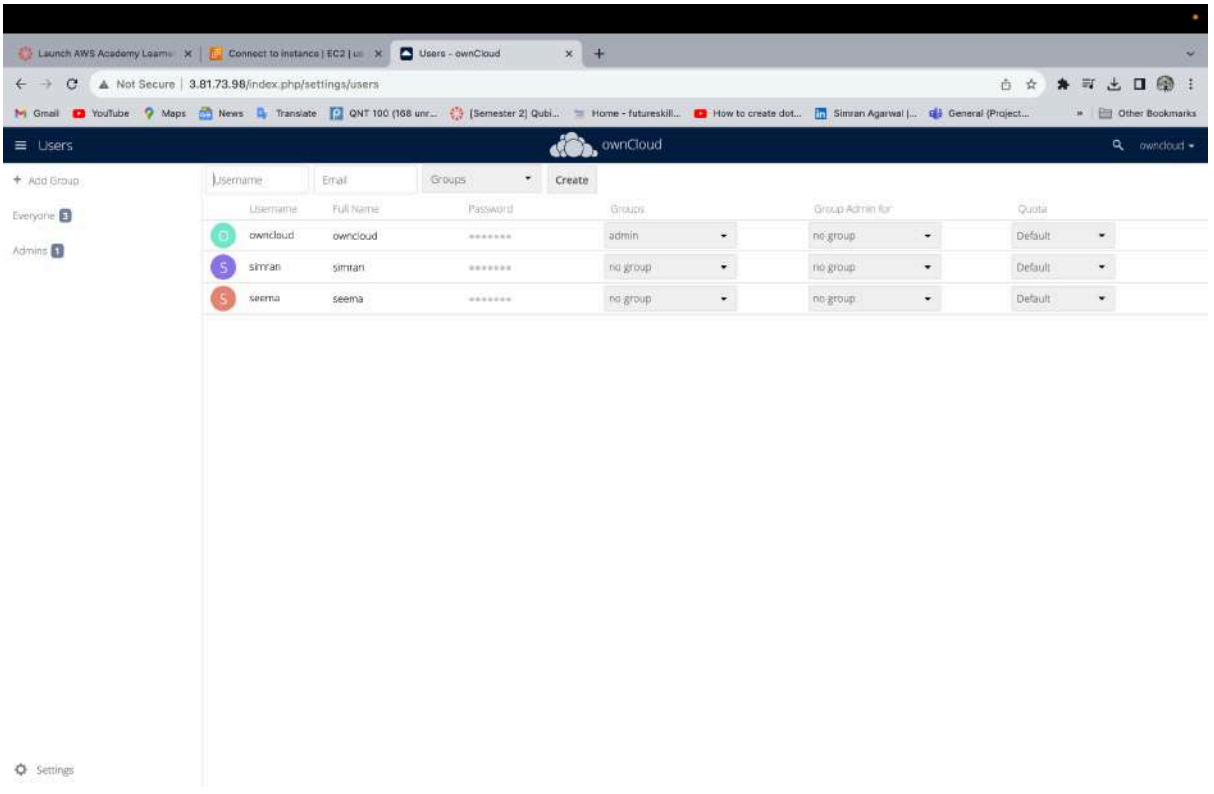
Admins 1
Username
Email
Groups
Create
Username
Full Name
Password
Groups
Group Admin for
Quota
owncloud
owncloud
admin
no group
Default
Settings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+ Add Group
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Admins 1
Username
Email
Groups
Create
Username
Full Name
Password
Groups
Group Admin for
Quota
owncloud
owncloud
admin
no group
Default
simran
simran
no group
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Default
seema
seema
no group
no group
Default
Settings