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## **Experiment No - 03**

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**Aim:** Demonstrate the deployment of ownCloud self-hosted file synchronization and sharing platform on an Amazon EC2 instance. Assume that you have an existing EC2 instance with a Linux-based operating system.

Step1:login in your AWS academy learners lab and click on ec2 instance

Step2:click on launch instance

Step3: configure your instance according to your need here for example we have taken ubuntu OS with 1 GB ram 16 GB storage and 1 core then click on launch button

Note: create a access key for connecting to ec2 instance for windows make it in .ppk

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type

ami-053b0d53c279acc90 (64-bit (x86)) / ami-0a0c8eebcd6d6cb0d (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-05-16

Architecture

64-bit (x86)

AMI ID

ami-053b0d53c279acc90

Free tier eligible

Verified provider

▼ Instance type Info

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand RHEL base pricing: 0.0116 USD per Hour

Free tier eligible

All generations

Compare instance types

▼ Summary

Number of instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more

ami-053b0d53c279acc90

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

Cancel

Launch instance

Review commands

Note : after some time you can change the configuration according to your need

EC2 > Instances > i-06d76c6a866a812ba

Instance summary for i-06d76c6a866a812ba (pract1) Info

Updated less than a minute ago

Connect Instance state Actions

Instance ID	Public IPv4 address	Private IPv4 addresses
i-06d76c6a866a812ba (pract1)	54.224.197.35   open address	172.31.38.109
IPv6 address	Instance state	Public IPv4 DNS
—	Running	ec2-54-224-197-35.compute-1.amazonaws.com   open address
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-38-109.ec2.internal	ip-172-31-38-109.ec2.internal	—
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
IP v4 (A)	t2.micro	Opt-in to AWS Compute Optimizer for recommendations.   Learn more
Auto-assigned IP address	VPC ID	Auto Scaling Group name
54.224.197.35 [Public IP]	vpc-0e7978f2335d0e688	—
IAM Role	Subnet ID	
Optional	subnet-0c6cd69d7843b7851	

Details Security Networking Storage Status checks Monitoring Tags

EC2 Dashboard EC2 Global View Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

▼ Images

AMIs

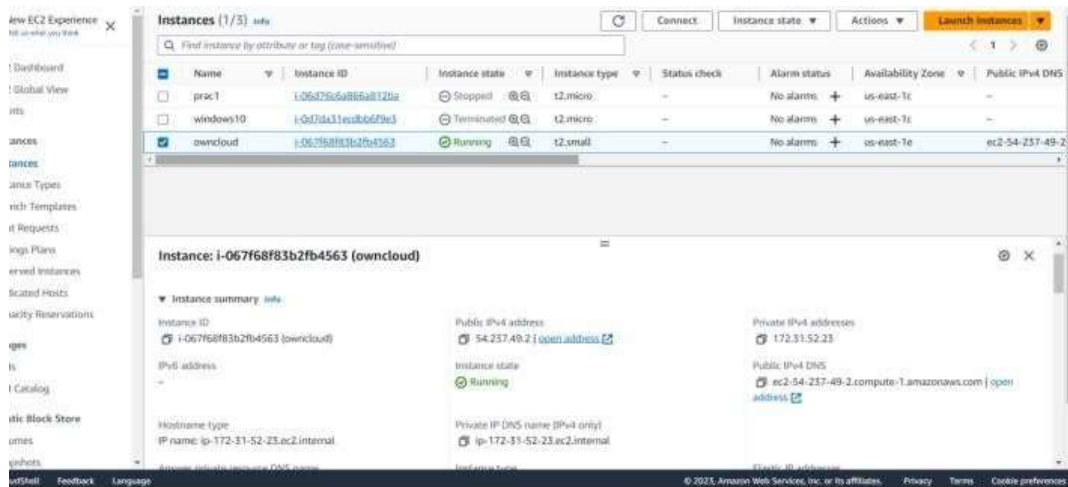
AMI Catalog

▼ Elastic Block Store

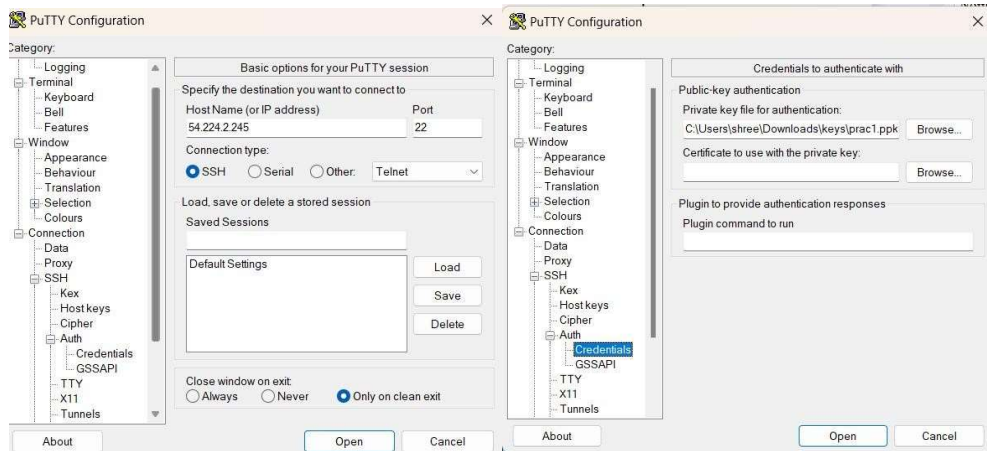
Volumes

CloudShell Feedback Language

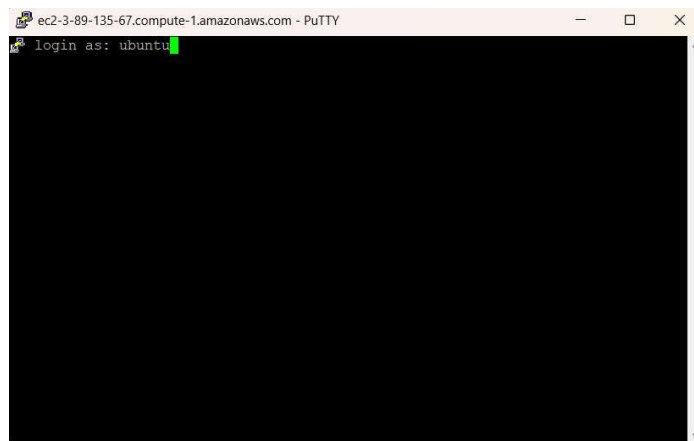
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Step4: for connecting to the system you have to install the putty software  
After installing the software enter the public host ip in hostip section and  
in connection tab->SSH->Auth->credentials enter the key and click on open



Step5: enter the hostname in command line as ubuntu(the name that has been specified) and connect to the vm

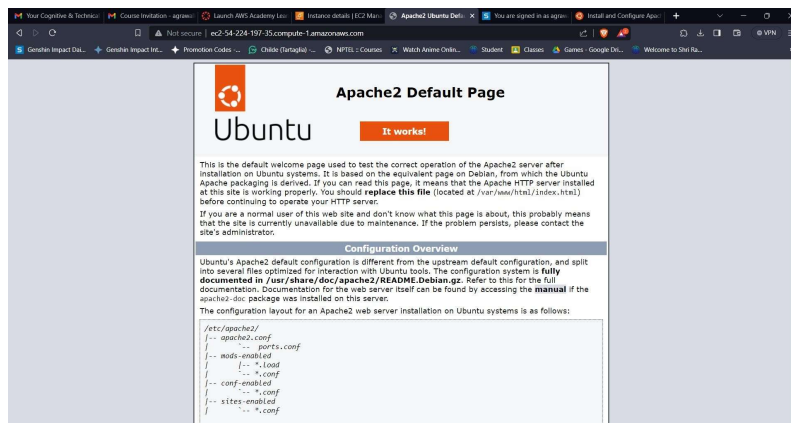


Step6: install the apache server using `sudo apt install apache2`

```
ubuntu@ip-172-31-38-109: ~  
System load: 0.521484375      Processes:      102  
Usage of /: 11.6% of 15.32GB   Users logged in: 0  
Memory usage: 24%            IPv4 address for eth0: 172.31.38.109  
Swap usage: 0%  
  
Expanded Security Maintenance for Applications is not enabled.  
  
116 updates can be applied immediately.  
65 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
Last login: Thu Aug 24 08:46:45 2023 from 117.254.209.20  
ubuntu@ip-172-31-38-109:~$ sudo apt install apache2  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
apache2 is already the newest version (2.4.52-1ubuntu4.6).  
0 upgraded, 0 newly installed, 0 to remove and 112 not upgraded.  
ubuntu@ip-172-31-38-109:~$
```

Step7: Enter all the commands to install sql server and configure the owncloud database on it

Step8: click on the hostip and open it in browser your apache server will be visible there



Step9: add /owncloud in the end of url to access the website and make account on it



## Practical 4 part B

In owncloud login as admin and go to user

In user we can assign new users and give them limited permission according to given problem statement

