ASSIGNMENT – 01

COURSE : DEVOPS

Trainer : Mr . MADHUKAR

NAME : N.ALEKHYA

Mail id : alekhyalucky88@gmail.com

3) Create ebs and attach volume to an instance and unmount the volume and attach to another instance?

- Open a AWS Console Home and Click on EC2

- Click on Instances

- Now Create a One Server in any region
- Click on Launch Instances

- Enter a name

- select a operating system

- Now Click a Create new key pair

- Enter a key name and click on create key pair

- Now click on launch instance

- Give name of the instance and click launch instance
- Instance will be created succesfully

- One Instance Created and Click on the instance id and then connect

- Now Connected server

- Sudo -i
- Df -h command check the user size

- Now go to ebs then volumes

- Click on Create Volume

- Enter the size what ever you want then select same availability zone of EC2 then create volume

- After Create a volume see the status of created volume it is available state is showing.
- Select that volume and attach volume to our first instance.
- After Attach volume that should be disable. And detach is enable.

- Now Go to EC2 Connected server

- Df -h command check user size
- Command is “**<u>lsblk”</u>**

- First to check file system is there or not then create new File system in volume
- Command is **mkfs –t xfs /dev/xvdf**
- To Check file system created or not command is **file –s /dev/xvdf**

- Create directories and mount the volume to directories
  Command is
  mkdir –p cube/recta
  mount /dev/xvdf cube/recta
  cd cube/recta
  mkdir 130 140
  vi file1
  ls – see the list files and directories
  cd
  umount /dev/xvdf cube/recta

```
root@ip-172-31-90-151:~/cube# cd
root@ip-172-31-90-151:~# mount /dev/xvdf cube/recta
root@ip-172-31-90-151:~# cd cube/recta
root@ip-172-31-90-151:~/cube/recta# ls
root@ip-172-31-90-151:~/cube/recta# mkdir 130 140
root@ip-172-31-90-151:~/cube/recta# vi file1
root@ip-172-31-90-151:~/cube/recta# ls
130  140  file1
root@ip-172-31-90-151:~/cube/recta# cd
root@ip-172-31-90-151:~# umount /dev/xvdf cube/recta
umount: cube/recta: not mounted.
root@ip-172-31-90-151:~# lsblk
NAME     MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
loop0      7:0    0  24.9M  1 loop /snap/amazon-ssm-agent/7628
loop1      7:1    0  55.7M  1 loop /snap/core18/2812
loop2      7:2    0  63.5M  1 loop /snap/core20/2015
loop3      7:3    0 111.9M  1 loop /snap/lxd/24322
loop4      7:4    0  40.9M  1 loop /snap/snapd/20290
xvda     202:0    0     8G  0 disk
├─xvda1  202:1    0   7.9G  0 part /
├─xvda14 202:14   0     4M  0 part
└─xvda15 202:15   0   106M  0 part /boot/efi
xvdf     202:80   0    15G  0 disk
root@ip-172-31-90-151:~# file -s /dev/xvdf
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-90-151:~#
```

i-08f0de536b21d0b5b (task1)

PublicIPs: 44.212.35.98 PrivateIPs: 172.31.90.151

```
hello all good morning
vcube students
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
-- INSERT --                                          2,15          All
```

i-009ab6eb65749edf9 (task1)

PublicIPs: 18.142.179.76 PrivateIPs: 172.31.21.124

- Now go to Volumes

- Detach the volume

- Click on the detach

- Click on the detach the volume is detach succesfully

- Now go to EC2 Instance and create one more instance in same availability zone

- After Creating Instance go to instance id click on it after connect to the instance

EC2 | us-east-1 | Instance details | EC2 | us-east- | EC2 Instance Connect | us-east- | Volumes | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-0b03d6de0ab65ea6d

Gmail YouTube Maps

aws Services Search [Alt+S] N. Virginia alekhya

EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes

EC2 > Instances > i-0b03d6de0ab65ea6d

Instance summary for i-0b03d6de0ab65ea6d (task2) Info

Updated less than a minute ago

Connect | Instance state | Actions

Instance ID i-0b03d6de0ab65ea6d (task2)	Public IPv4 address 3.95.6.41 |open address	Private IPv4 addresses 172.31.95.201
IPv6 address –	Instance state Running	Public IPv4 DNS ec2-3-95-6-41.compute-1.amazonaws.com |open address
Hostname type IP name: ip-172-31-95-201.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-95-201.ec2.internal	
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	Elastic IP addresses –
Auto-assigned IP address 3.95.6.41 [Public IP]	VPC ID vpc-09f2d9180efcaa550	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role –	Subnet ID subnet-0b15b49fe4b5020ee	Auto Scaling Group name –
IMDSv2 Required		

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-0b03d6de0ab65ea6d

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

Type here to search 32°C Sunny ENG 14:42 19-02-2024

EC2 | us-east-1
Connect to instance | EC2 | us-e
EC2 Instance Connect | us-east
Volumes | EC2 | us-east-1
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-0b03d6de0ab65ea6d
Gmail
YouTube
Maps
aws
Services
Search
[Alt+S]
N. Virginia
alekhya
Connect to your instance i-0b03d6de0ab65ea6d (task2) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0b03d6de0ab65ea6d (task2)
Connection Type
Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.
Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.
Public IP address
3.95.6.41
Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.
ubuntu
Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
Cancel
Connect
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0b03d6de0ab65ea6d&osUser=ubuntu&sshPort=22
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
32°C Sunny
ENG
14:42
19-02-2024

Instance details | EC2 | ap-sout
EC2 Instance Connect | ap-sout
ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-009ab6eb65749edf9&osUser=ubuntu&region=ap-southeast-1&sshPort=22#/
Gmail
YouTube
Maps
aws
Services
Search
[Alt+S]
Singapore
alekhya
Memory usage: 20%
IPv4 address for eth0: 172.31.21.124
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-172-31-21-124:~$
i-009ab6eb65749edf9 (task1)
PublicIPs: 18.142.179.76 PrivateIPs: 172.31.21.124
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
26°C Partly cloudy
ENG
21:43
19-02-2024

- Go to the volume and attached to the volume in second instance

After Attach volume to check the file system is there or not

Then see the data in volume Command is

We connected to the instance below commands are using

- **File –s /dev/xvdf**
- **Mkdir /data**
- **Mount /dev/xvdf /data**
- **Cd /data**
- **Ls**

```
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-172-31-95-201:~$ sudo -i
root@ip-172-31-95-201:~# lsblk
NAME     MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
loop0      7:0    0  24.9M  1 loop /snap/amazon-ssm-agent/7628
loop1      7:1    0  55.7M  1 loop /snap/core18/2812
loop2      7:2    0  63.5M  1 loop /snap/core20/2015
loop3      7:3    0 111.9M  1 loop /snap/lxd/24322
loop4      7:4    0  40.9M  1 loop /snap/snapd/20290
xvda     202:0    0     8G  0 disk
├─xvda1  202:1    0   7.9G  0 part /
├─xvda14 202:14   0     4M  0 part
└─xvda15 202:15   0   106M  0 part /boot/efi
xvdf     202:80   0    15G  0 disk
root@ip-172-31-95-201:~# file -s /dev/xvdf
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-95-201:~#
```

i-0b03d6de0ab65ea6d (task2)

PublicIPs: 3.95.6.41 PrivateIPs: 172.31.95.201

```
Last login: Mon Feb 19 09:13:04 2024 from 18.206.107.27
ubuntu@ip-172-31-95-201:~$ sudo -i
root@ip-172-31-95-201:~# lsblk
NAME     MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
loop0      7:0    0  24.9M  1 loop /snap/amazon-ssm-agent/7628
loop1      7:1    0  55.7M  1 loop /snap/core18/2812
loop2      7:2    0  63.5M  1 loop /snap/core20/2015
loop3      7:3    0 111.9M  1 loop /snap/lxd/24322
loop4      7:4    0  40.9M  1 loop /snap/snapd/20290
xvda     202:0    0     8G  0 disk
├─xvda1  202:1    0   7.9G  0 part /
├─xvda14 202:14   0     4M  0 part
└─xvda15 202:15   0   106M  0 part /boot/efi
xvdf     202:80   0    15G  0 disk
root@ip-172-31-95-201:~# file -s /dev/xvdf
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-95-201:~# mkdir /data
mkdir: cannot create directory '/data': File exists
root@ip-172-31-95-201:~# mount /dev/xvdf /data
root@ip-172-31-95-201:~# cd /data
root@ip-172-31-95-201:/data# ls
130  140  file1
root@ip-172-31-95-201:/data# cat file1
hell all good morning
vcube students
root@ip-172-31-95-201:/data#
```

i-0b03d6de0ab65ea6d (task2)

PublicIPs: 3.95.6.41 PrivateIPs: 172.31.95.201

********** END **********

1 . Create a S3 bucket and enable cross region replication for any two buckets in different in different region?

- Go to Amazon S3 , Click on Create Bucket

- Enter Bucket Name and Select Any one Region

- Enable Bucket Version

- After that Click on Create Bucket

- One more bucket created in different region.

- Now see the 2 Buckets in different region

- Now go to first bucket and click on upload

- Then Add Files and Add Folders then upload

- Click on Upload

- Uploading Files and Folders

- Now go to Management in first bucket (or) Source Bucket

- In Management Console click on create Replication Rule

- Enter Replication rule name

- Click on Apply to all objects in the bucket

- Now Choose Destination where ever you want to see the data
- Choose a bucket in this account

- Select another region Bucket (or) Where ever you want to see the data that bucket select and click on choose path

- Now choose from existing IAM roles
- Select Drop down Create a new role

- Then Save the Replication Rule

- Now if you want see the existing data then click on Yes
- If you don't want to see the existing data then click on No then submit

- If You Click yes then choose the destination path again and click on save button

- After Save Button Click then one batch Operation Created that status is showing Preparing.
- Status is changed active then we can see the data into the destination bucket.

- Whenever Batch Operation Active go to Destination Bucket and see the data.

- Now See the data in Destination Bucket.

alekhyadestination2 - S3 bucke
s3.console.aws.amazon.com/s3/buckets/alekhyadestination2?region=ap-south-1&bucketType=general&tab=objects
Gmail
YouTube
Maps
aws
Services
Search
[Alt+S]
Global
alekhya
Amazon S3 > Buckets > alekhyadestination2
alekhyadestination2 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (2) Info
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Find objects by prefix
Show versions
1
Name
Type
Last modified
Size
Storage class
job-b16aa3b9-b1a1-48ad-8631-a03849df45fb/
Folder
-
-
-
SIGN.jpg
jpg
February 20, 2024, 11:40:06 (UTC+05:30)
3.4 MB
Standard
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
25°C Haze
ENG
11:52
20-02-2024

THANK YOU