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PES1201800102

6-D

Roll No.: 6

Understanding and creating AWS EC2(Elastic Compute) virtual machines

Services

Search for services, features, marketplace products, and docs

[Alt+S]

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1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 7: Review Instance Launch

AMI Details

Free tier eligible

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-0885b1f6bd170450c

Ubuntu Server 20.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).
Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

Security Groups

Security group name

launch-wizard-1

Description

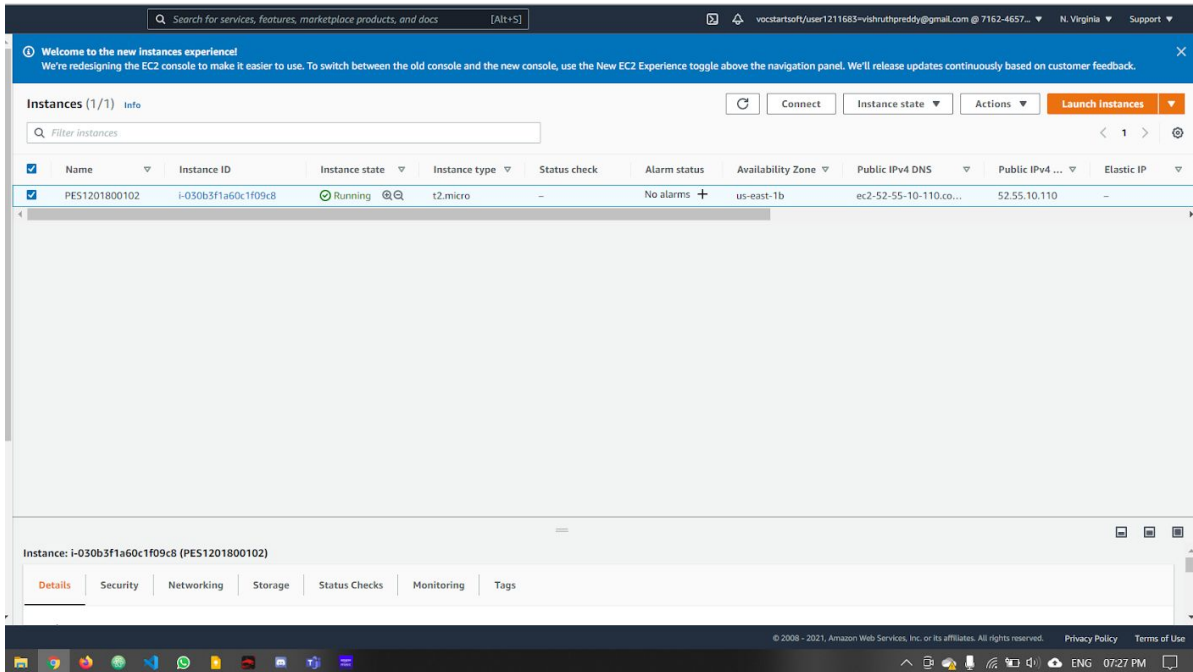
launch-wizard-1 created 2021-01-21T19:17:21.006+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	
HTTP	TCP	80	0.0.0.0/0	
HTTP	TCP	80	:::0	

Instance Details

Storage

Tags



```
ubuntu@ip-172-31-95-22: ~  
Setting up libitm1:amd64 (10.2.0-5ubuntu1~20.04) ...  
Setting up gcc-9-base:amd64 (9.3.0-17ubuntu1~20.04) ...  
Setting up libtsan0:amd64 (10.2.0-5ubuntu1~20.04) ...  
Setting up libctf0:amd64 (2.34-6ubuntu1) ...  
Setting up libasan5:amd64 (9.3.0-17ubuntu1~20.04) ...  
Setting up cpp-9 (9.3.0-17ubuntu1~20.04) ...  
Setting up libc6-dev:amd64 (2.31-0ubuntu9.1) ...  
Setting up binutils-x86-64-linux-gnu (2.34-6ubuntu1) ...  
Setting up binutils (2.34-6ubuntu1) ...  
Setting up libgcc-9-dev:amd64 (9.3.0-17ubuntu1~20.04) ...  
Setting up cpp (4:9.3.0-1ubuntu2) ...  
Setting up gcc-9 (9.3.0-17ubuntu1~20.04) ...  
Setting up gcc (4:9.3.0-1ubuntu2) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.1) ...  
ubuntu@ip-172-31-95-22:~$ gcc -o test -Wall test.c  
ubuntu@ip-172-31-95-22:~$ ./a.out  
-bash: ./a.out: No such file or directory  
ubuntu@ip-172-31-95-22:~$ ls  
test test.c  
ubuntu@ip-172-31-95-22:~$ test  
ubuntu@ip-172-31-95-22:~$ ./test  
First time using AWS  
ubuntu@ip-172-31-95-22:~$
```

Understanding and using AWS EBS(Elastic Block Store)

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Create Volume Actions

Filter by tags and attributes or search by keyword

Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State	Alarm Status	Attachment Information	Monitoring
PES1201800102_ebs	vol-013fe99f...	10 GiB	gp2	100	-		January 21, 2021 at...	us-east-1b	In use	None	i-0deb1f02a957dd18...	
	vol-071c009...	8 GiB	gp2	100	-	snap-0b071e0...	January 21, 2021 at...	us-east-1b	In use	None	i-0deb1f02a957dd18...	

Volumes: vol-013fe99f602c735f (PES1201800102_ebs)

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Instances (1/2) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
PES1201800102	i-030b3f1a60c1f09:c8	Terminated	t2.micro	-	1 alarms OK	us-east-1b	-	-
PES1201800102...	i-0deb1f02a957dd182	Running	t2.micro	2/2 checks ...	1 alarms OK	us-east-1b	ec2-54-165-104-74.co...	54.165.104.74

Instance: i-0deb1f02a957dd182 (PES1201800102_ebs)

Details Security Networking **Storage** Status Checks Monitoring Tags

Root device details

Root device name	Root device type	EBS optimization
/dev/sda1	EBS	disabled

Block devices (2)

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID	Delete on termination
vol-071c0092577422d9e	/dev/sda1	8	Attached	Thu Jan 21 2021 20:07:13 ...	No	-	Yes
vol-013fe99f602c735f	/dev/sdf	10	Attached	Thu Jan 21 2021 20:21:39 ...	No	-	No

```
ubuntu@ip-172-31-84-229: ~  
Allocating group tables: done  
Writing inode tables: done  
Creating journal (16384 blocks): done  
Writing superblocks and filesystem accounting information: done  
  
ubuntu@ip-172-31-84-229:~$ sudo mount /dev/xvdf /mnt/data-store  
ubuntu@ip-172-31-84-229:~$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
udev            476M   0  476M   0% /dev  
tmpfs           98M   756K   98M   1% /run  
/dev/xvda1      7.7G  1.2G   6.6G  15% /  
tmpfs           490M   0  490M   0% /dev/shm  
tmpfs           5.0M   0   5.0M   0% /run/lock  
tmpfs           490M   0  490M   0% /sys/fs/cgroup  
/dev/loop0      98M   98M    0 100% /snap/core/10185  
/dev/loop1      29M   29M    0 100% /snap/amazon-ssm-agent/2012  
tmpfs           98M   0   98M   0% /run/user/1000  
/dev/xvdf       9.8G  23M   9.3G   1% /mnt/data-store  
ubuntu@ip-172-31-84-229:~$
```

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Create Snapshot

Actions

Owned By Me

Filter by tags and attributes or search by keyword

Name	Snapshot ID	Size	Description	Status	Started	Progress	Encryption	KMS Key ID
PES1201000...	snap-0b614376cb9...	10 GiB		completed	January 21, 2021 at 8:48:51 ...	available (100%)	Not Encrypted	

Snapshot: snap-0b614376cb9dbfc9 (PES1201800102_ebs)

Description

Permissions

Tags

Snapshot ID

snap-0b614376cb9dbfc9

Status

completed

Volume

vol-013fe99f6602c735f

Started

January 21, 2021 at 8:48:51 PM UTC+5:30

Owner

716246579049

Progress

100%

Capacity

10 GiB

Encryption

Not Encrypted

KMS Key ID

KMS Key Aliases

KMS Key ARN

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Create Volume

Actions

Filter by tags and attributes or search by keyword

Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	State	Alarm Status	Attachment Information
Snapshot	vol-03fb274c...	10 GiB	gp2	100	-	snap-0b61437...	January 21, 2021 at 8:55:25 ...	us-east-1b	available	None	
PES1201800102_ebs	vol-0136e59f...	10 GiB	gp2	100	-		January 21, 2021 at 8:21:14 ...	us-east-1b	in-use	None	i-0deb1f02a957d418...
	vol-071c009...	8 GiB	gp2	100	-	snap-0b071e0...	January 21, 2021 at 8:07:13 ...	us-east-1b	in-use	None	i-0deb1f02a957d418...

Volumes: 1 vol-03fb274c752594189 (Snapshot)

Description

Status Checks

Monitoring

Tags

Volume ID

vol-03fb274c752594189

Alarm status

None

Snapshot

snap-0b614376c9d8fc9

Outposts ARN

-

Size

10 GiB

Created

January 21, 2021 at 8:55:25 PM UTC+5:30

Object Storage using S3 Buckets

Service	Operation	UsageType	Resource	StartTime	EndTime	UsageValue
AmazonS3	HeadBucket	USW2-C3DataTransfer-Out-Bytes	lab-test-bucket-77	10/31/2020 0:00	12/31/2020 11:59	15309
AmazonS3	PutObject	USW2-C3DataTransfer-In-Bytes	admin-test-77	10/31/2020 0:00	12/31/2020 11:59	19032
AmazonS3	HeadBucket	USW2-Requests-Tier2	admin-test-77	10/31/2020 0:00	12/31/2020 11:59	128
AmazonS3	PutObjectForReplication	USW1-Request-SIA-Tier1	mybucket-98765	10/31/2020 0:00	12/31/2020 11:59	56888
AmazonS3	GetObjectFor Replication	USW1-USW2-AWS-In-Bytes	mybucket-98766	10/31/2020 0:00	12/31/2020 11:59	254587
AmazonS3	GetObjectFor Replication	USW2-C3DataTransfer-Out-Bytes	mybucket-98767	10/31/2020 0:00	12/31/2020 11:59	235
AmazonS3	HeadBucket	USW2-C3DataTransfer-In-Bytes	mybucket-98768	10/31/2020 0:00	12/31/2020 11:59	25589
AmazonS3	PutObject	USW2-Requests-Tier2	mybucket-98769	10/31/2020 0:00	12/31/2020 11:59	2348
AmazonS3	PutObjectForReplication	USW1-Request-SIA-Tier1	mybucket-98770	10/31/2020 0:00	12/31/2020 11:59	15309
AmazonS3	GetObjectFor Replication	USW1-USW2-AWS-In-Bytes	mybucket-98771	10/31/2020 0:00	12/31/2020 11:59	19032
AmazonS3	GetObjectFor Replication	USW2-C3DataTransfer-Out-Bytes	lab-example-bucket	10/31/2020 0:00	12/31/2020 11:59	128
AmazonS3	HeadBucket	USW2-C3DataTransfer-In-Bytes	lab-example-bucket	10/31/2020 0:00	12/31/2020 11:59	56888
AmazonS3	PutObject	USW2-Requests-Tier2	lab-example-bucket	10/31/2020 0:00	12/31/2020 11:59	254587
AmazonS3	PutObjectForReplication	USW1-Request-SIA-Tier1	lab-example-bucket	10/31/2020 0:00	12/31/2020 11:59	235
AmazonS3	GetObjectFor Replication	USW1-USW2-AWS-In-Bytes	lab-example-bucket	10/31/2020 0:00	12/31/2020 11:59	25589

Amazon S3

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Buckets

Access points

Batch Operations

Access analyzer for S3

Account settings for Block Public Access

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Amazon S3

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Objects

Properties

Permissions

Metrics

Management

Access points

Objects (3)

Objects are the fundamental entities stored in Amazon S3. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

List versions

🔄

Delete

Actions ▾

Create folder

Upload

🔍 Find objects by prefix

< 1 > ⚙️

<input type="checkbox"/>	Name	Type	Version ID	Last modified	Size	Storage class
<input type="checkbox"/>	new-report.png	png	null	January 21, 2021, 21:15:37 (UTC+05:30)	84.0 KB	Standard
<input type="checkbox"/>	sample-file.txt	txt	DXZ_QZqPFFnervJzj8iETooQsbltf_5	January 21, 2021, 21:25:55 (UTC+05:30)	127.0 B	Standard
<input type="checkbox"/>	sample-file.txt	txt	null	January 21, 2021, 21:15:38 (UTC+05:30)	113.0 B	Standard

```
This sample text file is used to illustrate the use of versioning in an Amazon S3 bucket.

Make it a great day!

My name jeff
```