

SHREEE VARSHAN G

727721EUCS140

SCREEN SHOTS FOR LAB EXCERCISES

DAY -1

Laravel Tutorial for x What is the difference | edge location in cloud | various types compute | What is Cloud Comp AWS Management x 127.0.0.1:8000/blog/cr +

ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1

aws Services Search [Alt+S] Mumbai Shree-1013 ▾

Console Home Info

Recently visited Info

No recently visited services

Explore one of these commonly visited AWS services.

IAM EC2 S3 RDS Lambda

View all services

Reset to default

Account ID: 1990-0744-0657

Account

Organization

Service Quotas

Billing Dashboard

Security credentials

Training and Development

Settings

Sign out

What's new with AWS?

Discover new AWS services, features, and Regions.

AWS Health Info

Cost and usage Info

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DAY -2

Server_Win (7) - ec2-13-235-76-232.ap-south-1.compute.amazonaws.com - Remote Desktop Connection



Recycle Bin



EC2

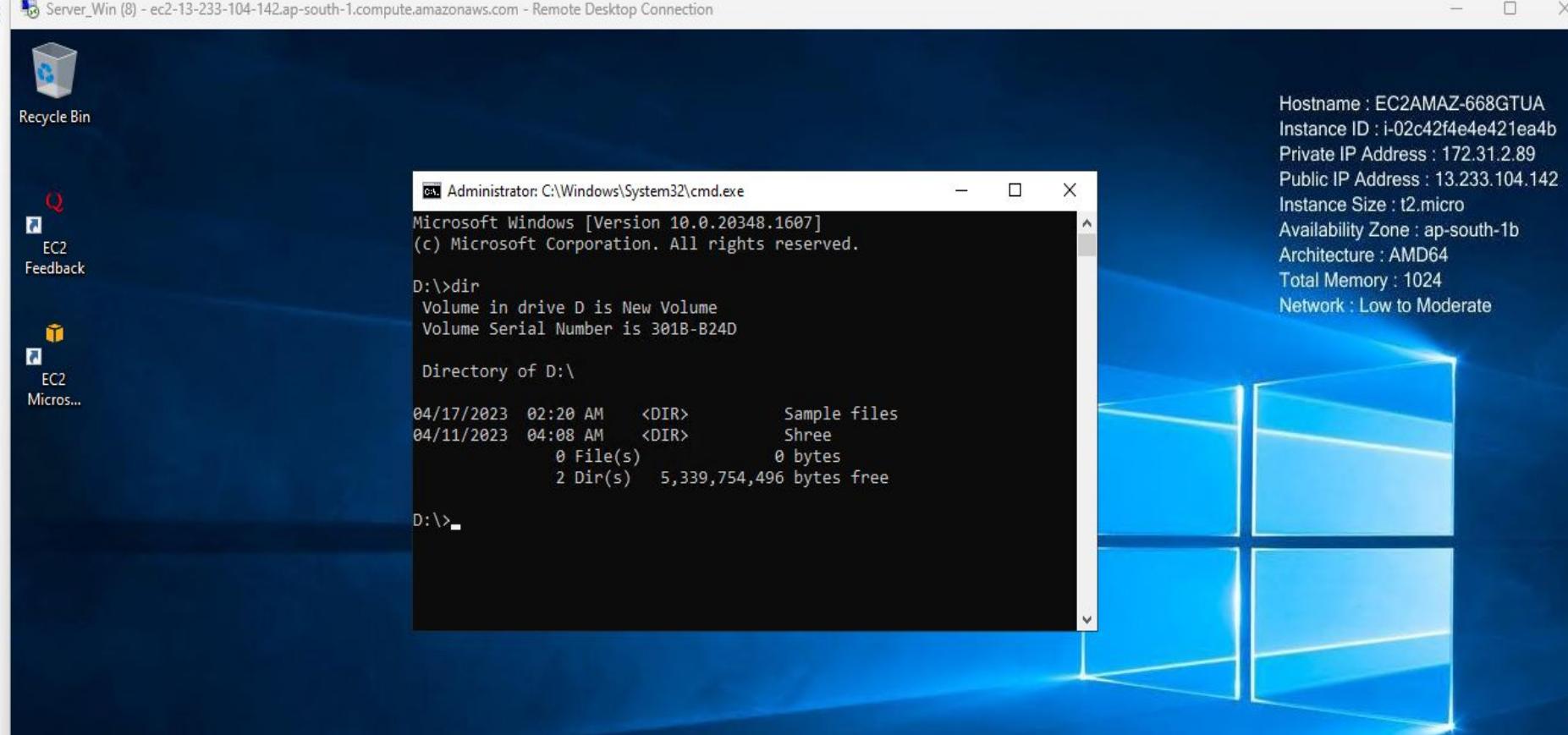
Feedback



EC2

Micros...

Hostname : EC2AMAZ-668GTUA
Instance ID : i-02c42f4e4e421ea4b
Private IP Address : 172.31.2.89
Public IP Address : 13.235.76.232
Instance Size : t2.micro
Availability Zone : ap-south-1b
Architecture : AMD64
Total Memory : 1024
Network : Low to Moderate



ec2-user@ip-172-31-46-132:~ X + v

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Ins

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

PS C:\Users\Shree Varshan G> cd downloads
PS C:\Users\Shree Varshan G\downloads> ssh -i "linux_sample.pem" ec2-user@ec2-15-207-106-192.ap-south-1.compute.amazonaws.com
Last login: Mon Apr 17 02:27:51 2023 from 49.37.136.72

--| --|_)
_| (_ / Amazon Linux 2 AMI
---| \---| ---|

<https://aws.amazon.com/amazon-linux-2/>
[ec2-user@ip-172-31-46-132 ~]\$

Cancel

SKCET EC2 Management Welcome to A + - □ ×

Not secure | 15.207.10... 🔍 | 🚧 | ⚙️ VPN X

aws

Meta-Data	Value
InstanceId	i-05373b55dec6f252d
Availability Zone	ap-south-1a

Current CPU Load: 0%

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\Users\Shree Varshan G> cd downloads
PS C:\Users\Shree Varshan G\downloads> ssh -i "linux_sample.pem" ec2-user@ec2-15-207-106-192.ap-south-1.compute.amazonaws.com
Last login: Mon Apr 17 02:27:51 2023 from 49.37.136.72
 _ _|_ _|_
 _| ( /   Amazon Linux 2 AMI
 ___\_\_||_|
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-46-132 ~]$ sudo yum -y install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
| 3.7 kB  00:00:00
Package httpd-2.4.56-1.amzn2.x86_64 already installed and latest version

Nothing to do
[ec2-user@ip-172-31-46-132 ~]$ sudo service httpd start
Redirecting to /bin/systemctl start httpd.service
[ec2-user@ip-172-31-46-132 ~]$
```

screenre

Limits

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

Amazon Machine Images (AMIs) (2)

Info



Actions

Launch instance from AMI

Owned by me

Find AMI by attribute or tag

<

1

>



<input type="checkbox"/>	Name	AMI ID	AMI name	Source	Owner
<input type="checkbox"/>	-	ami-0480c3c4fdccacca4c	Shree_image	199007440657/Shree_image	199007440657
<input type="checkbox"/>	-	ami-0c17bcb2694215953	asg-image-shree	199007440657/asg-image-shree	199007440657

Select an AMI



DAY - 3

S3 Buckets myfirstbucket1013

Amazon S3 > Buckets > myfirstbucket1013

myfirstbucket1013 Info

Objects Properties Permissions Metrics Management Access Points

Objects (1)

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](#)

[Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions ▾](#)

[Create folder](#) [Upload](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	Sample_files/	Folder	-	-	-

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AWS Services Search [Alt+S] Global Shreevarshan@1013 @ 1990-0744-0657

Amazon S3

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

[Edit](#) [Delete](#)

```
{  
    "Version": "2012-10-17",  
    "Statement": [  
        {  
            "Sid": "PublicReadGetObject",  
            "Effect": "Allow",  
            "Principal": "*",  
            "Action": "s3:GetObject",  
            "Resource": "arn:aws:s3:::myfirstbucket1013/*"  
        }  
    ]  
}
```

[Copy](#)

s3.console.aws.amazon.com/s3/buckets/myfirstbucket1013?region=ap-south-1&tab=permissions

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Amazon S3

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight

Permissions

Permissions overview

Access

⚠️ **Public**

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Edit

Block *all* public access

⚠️ **Off**

▶ [Individual Block Public Access settings for this bucket](#)

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Amazon S3

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight

Permissions overview

Access

Objects can be public

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

[Edit](#)

Block *all* public access

Off

[Individual Block Public Access settings for this bucket](#)

AWS Marketplace for S3

https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1

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Amazon S3



Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

✔ Successfully edited Bucket Versioning

To transition, archive, or delete older object versions, [configure lifecycle rules](#) for this bucket.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

[Edit](#)

Bucket Versioning

Enabled

Multi-factor authentication (MFA) delete

An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

Disabled

Tags (0)

[Edit](#)

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

Value

No tags associated with this resource.

Sample_files/

 Copy S3 URI Objects

Properties

Objects (3)

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](#)

 Copy S3 URI Copy URL Download Open Delete Actions  Create folder Upload Find objects by prefix Show versions 1 

	Name	Type	Version ID	Last modified	Size	Storage class
	Conqi-real.png	png	null	April 17, 2023, 12:07:10 (UTC+05:30)	254.0 KB	Standard
	index.html	html	4qleslDTqc6a5W6_s3sL3NdUvM8mFcAT	April 17, 2023, 13:54:30 (UTC+05:30)	306.0 B	Standard
	index.html	html	SPDxR2IC.qm38nWv_qD8MsmRN8a7auVT	April 17, 2023, 13:53:44 (UTC+05:30)	297.0 B	Standard

Amazon S3



Successfully edited bucket policy.

Buckets

[Access Points](#)
[Object Lambda Access Points](#)[Multi-Region Access Points](#)[Batch Operations](#)[IAM Access Analyzer for S3](#)[Block Public Access settings for this account](#)

▼ Storage Lens

[Dashboards](#)
[AWS Organizations settings](#)[Feature spotlight](#)

```
{  
    "Version": "2012-10-17",  
    "Statement": [  
        {  
            "Sid": "PublicReadGetObject",  
            "Effect": "Allow",  
            "Principal": "*",  
            "Action": "s3:GetObject",  
            "Resource": "arn:aws:s3:::myfirstbucket1013/*"  
        },  
        {  
            "Sid": "Stmt1681720844351",  
            "Effect": "Deny",  
            "Principal": "*",  
            "Action": "s3>ListBucket",  
            "Resource": "arn:aws:s3:::myfirstbucket1013"  
        }  
    ]  
}
```

Copy

◀ ▶ C

myfirstbucket1013.s3.ap-south-1.amazonaws.com/Sample_files/index.html

↪ | 🔍 🔍 1

⬇️ ⏷ 🗃 • VPN ✖️

Welcome Shree Varshan G

DAY - 4

The lifecycle configuration was updated. Lifecycle rule "sample_life_cycle" was successfully added.
It may take some time for the configuration to be updated. Press the refresh button if changes to the rule are not displayed.

Amazon S3 > Buckets > myfirstbucket1013 > Lifecycle configuration

Lifecycle configuration Info

To manage your objects so that they are stored cost effectively throughout their lifecycle, configure their lifecycle. A lifecycle configuration is a set of rules that define actions that Amazon S3 applies to a group of objects. Lifecycle rules run once per day.

Lifecycle rules (1)

Use lifecycle rules to define actions you want Amazon S3 to take during an object's lifetime such as transitioning objects to another storage class, archiving them, or deleting them after a specified period of time.

Learn more [\[?\]](#)

[View details](#) [Edit](#) [Delete](#) [Actions ▾](#) [Create lifecycle rule](#)

Find lifecycle rules by name

Lifecycle rule name	Status	Scope	Current version actions	Noncurrent versions actions	Expired object delete markers	Incomplete multipart uploads
sample_life_cycle	Enabled	Filtered	Transition to Standard-IA, then Intelligent-Tiering	-	-	-



Identity and Access Management (IAM)

Search IAM

Dashboard

▼ Access management

User groups

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Roles

Policies

Identity providers

Account settings

▼ Access reports

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

Service control policies (SCPs)

IAM > User groups > S3-Admins

S3-Admins

Delete

Summary

Edit

User group name

Creation time

S3-Admins

April 17, 2023, 23:24 (UTC+05:30)

ARN

arn:aws:iam::199007440657:group/S3-Admins

Users

Permissions

Access Advisor

Permissions policies (1) Info

You can attach up to 10 managed policies.



Simulate

Remove

Add permissions ▾

Filter policies by property or policy name and press enter.

< 1 >



Policy name



Type

Description



AmazonS3FullAccess

AWS managed

Provides full access to all buckets via the AWS Management Console.

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Identity and Access Management (IAM)

Search IAM

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Organization activity

Service control policies (SCPs)

IAM > User groups > S3-Admins

S3-Admins

Delete Edit

Summary

User group name	Creation time	ARN
S3-Admins	April 17, 2023, 23:24 (UTC+05:30)	arn:aws:iam::199007440657:group/S3-Admins

Users Permissions Access Advisor

Users in this group (1)

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

Remove users Add users

User name	Groups	Last activity	Creation time
S3Admin1	1	None	2 days ago

Search

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Services

Search

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Identity and Access Management (IAM)

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Settings

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Organization activity

Service control policies (SCPs)

IAM > User groups > S3-Admins

S3-Admins

[Delete](#)

Summary

[Edit](#)

User group name

S3-Admins

Creation time

April 17, 2023, 19:00 (UTC+05:30)

ARN

arn:aws:iam::199007440657:group/S3-Admins

[Users](#)[Permissions](#)[Access Advisor](#)

Permissions policies (2) Info

You can attach up to 10 managed policies.

[Simulate](#)[Remove](#)[Add permissions](#) ▾ Filter policies by property or policy name and press enter.

< 1 >

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AmazonS3FullAccess	AWS managed	Provides full access to all buckets
<input type="checkbox"/>	Custom_deny_to_delete_object	Customer inline	

us-east-1.console.aws.amazon.com/iamv2/home#/users/details/S3Admin1?section=permissions

Identity and Access Management (IAM)

S3Admin1

Summary

ARN arn:aws:iam::199007440657:user/S3Admin1	Console access Enabled without MFA	Access key 1 Not enabled
Created April 17, 2023, 19:17 (UTC+05:30)	Last console sign-in Never	Access key 2 Not enabled

Permissions Groups (1) Tags Security credentials Access Advisor

Permissions policies (2)

Permissions are defined by policies attached to the user directly or through groups.

<input type="checkbox"/> Policy name	Type	Attached via
<input type="checkbox"/> AmazonS3FullAccess	AWS managed	Group S3-Admins
<input type="checkbox"/> Custom_deny_to_delete_object	Customer inline	Group S3-Admins

Permissions boundary (set)

Set a permissions boundary to control the maximum permissions for this user. Use this advanced feature used to delegate permission management to others. [Learn more](#)

Change boundary Remove boundary

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Identity and Access Management (IAM)



✓ Password requirements for IAM users are updated.



IAM > Account Settings

Account settings Info

Search IAM

Dashboard

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Identity providers

Account settings

▼ Access reports

Access analyzer

Archive rules

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Organization activity

Service control policies (SCPs)

CloudShell

Feedback

Language

Password policy Info

Configure the password requirements for the IAM users.

Edit

This AWS account uses the following custom password policy:

Password minimum length

8 characters

Password strength

- Require at least one uppercase letter from the Latin alphabet (A-Z)
- Require at least one lowercase letter from the Latin alphabet (a-z)

Other requirements

- Never expire password

Security Token Service (STS) Info

STS is used to create and provide trusted users with temporary security credentials that can control access to your AWS resources.



Identity and Access Management (IAM)

Search IAM

Dashboard

▼ Access management

User groups

Users

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Policies

Identity providers

Account settings

▼ Access reports

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

Service control policies (SCPs)

IAM > Users > Shree_Sample_Mfa

Delete

Summary

ARN



arn:aws:iam::199007440657:user/Shree_Sample_Mfa

Console access

Enabled with MFA

Access key 1

Not enabled

Created

April 18, 2023, 09:57 (UTC+05:30)

Last console sign-in

Never

Access key 2

Not enabled

Permissions

Groups

Tags

Security credentials

Access Advisor

Console sign-in

Manage console access

Console sign-in link

https://199007440657.signin.aws.amazon.com/console

Console password

Updated 3 minutes ago (2023-04-18 09:57 GMT+5:30)

Last console sign-in

New EC2 Experience 
Learn more

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

▼ Images

AMIs

EC2 > Instances > i-02c42f4e4e421ea4b

Instance summary for i-02c42f4e4e421ea4b (Server_Win) 

Updated less than a minute ago



Connect

Instance state ▾

Actions ▾

Instance ID	i-02c42f4e4e421ea4b (Server_Win)	Public IPv4 address	-	Private IPv4 addresses	172.31.2.89
IPv6 address	-	Instance state	Stopped	Public IPv4 DNS	-
Hostname type	IP name: ip-172-31-2-89.ap-south-1.compute.internal	Private IP DNS name (IPv4 only)	ip-172-31-2-89.ap-south-1.compute.internal	Elastic IP addresses	-
Answer private resource DNS name	IPv4 (A)	Instance type	t2.micro	AWS Compute Optimizer finding	 Opt-in to AWS Compute Optimizer for recommendations.
Auto-assigned IP address	-	VPC ID	vpc-0e0fd8e39339b7b44 	Learn more 	Auto Scaling Group name
IAM Role	Role_Sample 	Subnet ID	subnet-0981321d91beda2a2 	-	-
IMDSv2					

DAY - 6

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchTemplates:

New EC2 Experience X

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

- Instances
- Instance Types
- Launch Templates**
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

Images

- AMIs

Search [Alt+S] Actions ▾ Create launch template

Filter by tags or properties or search by keyword

Launch template ID	Launch template name	Default version	La
lt-00da89301c76d6644	MyLaunchTemplate	1	1

Select a launch template

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ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#AutoScalingGroups:

Services Search [Alt+S] Mumbai Shreevarshan@1013 @ 1990-0744-0657

EC2 > Auto Scaling groups

Auto Scaling groups (1) [Info](#)

[Edit](#) [Delete](#) [Create an Auto Scaling group](#)

Search your Auto Scaling groups

< 1 > [⚙️](#)

<input type="checkbox"/>	Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max
<input type="checkbox"/>	MyFirstASG	MyLaunchTemplate Version Default	1	-	1	1	1

0 Auto Scaling groups selected



DAY - 6 (VPC)

The screenshot shows the AWS VPC dashboard with the URL ap-northeast-3.console.aws.amazon.com/vpc/home?region=ap-northeast-3#vpcs. The dashboard displays two VPC entries:

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-04a9e956879fc19e	Available	172.31.0.0/16	-
project-vpc	vpc-0ffdabd8b7d8a0e1f	Available	172.0.0.0/16	-

A message at the bottom left says "Select a VPC above". The left sidebar lists various VPC-related services: VPC dashboard, EC2 Global View (New), Filter by VPC (Select a VPC dropdown), Virtual private cloud (Your VPCs New, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections).

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ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#vpcs:

Mumbai Shreevarshan@1013 @ 1990-0744-0657

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

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Search [Alt+S]

Your VPCs (3) Info

Filter VPCs

Actions Create VPC

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	labVpc-vpc	vpc-0e6356255b5773c26	Available	172.0.0.0/16	-
<input type="checkbox"/>	my-vpc-shree	vpc-080962a4df96683c1	Available	10.0.0.0/16	-
<input type="checkbox"/>	-	vpc-0e0fd8e39339b7b44	Available	172.31.0.0/16	-

Select a VPC above

https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1

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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

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Subnets (9)

Filter subnets

< 1 >



Actions ▾

Create subnet

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	labVpc-subnet-public1-ap-south-1a	subnet-07aab95462dd3b521	Available	vpc-0e6356255b5773c26 lab...	172.0.0.0/...
<input type="checkbox"/>	-	subnet-0981321d91beda2a2	Available	vpc-0e0fd8e39339b7b44	172.31.0.0/...
<input type="checkbox"/>	labVpc-subnet-private2-ap-south-1b	subnet-09e3af79f32b6675e	Available	vpc-0e6356255b5773c26 lab...	172.0.144.0/...
<input type="checkbox"/>	labVpc-subnet-private1-ap-south-1a	subnet-0d53a4819b2088bbc	Available	vpc-0e6356255b5773c26 lab...	172.0.128.0/...
<input type="checkbox"/>	-	subnet-0a832a3bd59c5b8e8	Available	vpc-0e0fd8e39339b7b44	172.31.32.0/...
<input type="checkbox"/>	private-subnet	subnet-0ad71fdf7c87ed6b2	Available	vpc-080962a4df96683c1 my...	10.0.2.0/...
<input type="checkbox"/>	-	subnet-039aeb1a540b00d61	Available	vpc-0e0fd8e39339b7b44	172.31.16.0/...
<input type="checkbox"/>	public-subnet	subnet-06fd81eb466137ce0	Available	vpc-080962a4df96683c1 my...	10.0.1.0/...
<input type="checkbox"/>	labVpc-subnet-public2-ap-south-1b	subnet-011a3fc0e9dbe1ec8	Available	vpc-0e6356255b5773c26 lab...	172.0.16.0/...

Select a subnet



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VPC dashboard X 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 DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections

Peering connections (2) Info

Filter peering connections

Name	Peering connection ID	Status	Requester VPC	Acceptor VPC
-	pcx-0b3ec13f396e4e6ce	Active	vpc-0ffdabd8b7d8a0e1f	vpc-080962a4df96683c1 / r
-	pcx-079cd7f8418cf94f8	Active	vpc-070db4c85876ac952	vpc-080962a4df96683c1 / r

Select a peering connection above

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

DNS firewall

Rule groups

Domain lists

Network Firewall

Firewalls

Firewall policies

Network Firewall rule

groups

Network Firewall

resource groups NewPeering connections (1/2) Info

Actions ▾

Create peering connection



Filter peering connections

< 1 >



Name	Peering connection ID	Status	Requester VPC	Acceptor VPC
-	pcx-044d2bed20980e287	Active	vpc-07ce08d698e61485e	vpc-070db4c85876ac952 /
3rd-region	pcx-079cd7f8418cf94f8	Active	vpc-070db4c85876ac952 / C...	vpc-080962a4df96683c1

pcx-044d2bed20980e287

Details

DNS

Route tables

Tags

Details

Requester owner ID
 199007440657Acceptor owner ID
 199007440657VPC Peering connection ARN
 arn:aws:ec2:ap-northeast-

AWS Services Search [Alt+S] Mumbai Shreevarshan@1013 @ 1990-0744-0657

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 DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups DNS firewall Rule groups Domain lists

VPC > Network ACLs > acl-08a2552d75e57a342 acl-08a2552d75e57a342 Actions ▾

Details Info

Network ACL ID acl-08a2552d75e57a342	Associated with 4 Subnets	Default Yes	VPC ID vpc-0e6356255b5773c26 / labVpc-vpc
Owner 199007440657			

Inbound rules Outbound rules Subnet associations Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Inbound rules (4)

Rule number	Type	Protocol	Port range	Source	Allow/Deny
98	SSH (22)	TCP (6)	22	0.0.0.0/0	Deny
99	RDP (3389)	TCP (6)	3389	0.0.0.0/0	Deny
100	All traffic	All	All	0.0.0.0/0	Allow
*	All traffic	All	All	0.0.0.0/0	Deny

Edit inbound rules

1. CREATING 2 WITH 2 PUBLIC SUBNETS ON 2 DIFFERENT AVAILABILITY ZONES

The screenshot shows the AWS VPC Subnets page with the URL ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#subnets. The left sidebar is titled "Virtual private cloud" and includes sections for "Your VPCs" (with a "New" button), "Subnets", "Route tables", "Internet gateways", "Egress-only internet gateways", "DHCP option sets", "Elastic IPs", "Managed prefix lists", "Endpoints", "Endpoint services", "NAT gateways", and "Peering connections". The main content area is titled "Subnets (9) Info" and displays a table of 9 subnets. The columns are: Name, Subnet ID, State, VPC, and IPv4 CIDR. The subnets are:

Name	Subnet ID	State	VPC	IPv4 CIDR
labVpc-subnet-public1-ap-south-1a	subnet-07aab95462dd3b521	Available	vpc-0e6356255b5773c26 lab...	172.0.0.0/20
-	subnet-0981321d91beda2a2	Available	vpc-0e0fd8e39339b7b44	172.31.0.0/20
labVpc-subnet-private2-ap-south-1b	subnet-09e3af79f32b6675e	Available	vpc-0e6356255b5773c26 lab...	172.0.144.0/20
labVpc-subnet-private1-ap-south-1a	subnet-0d53a4819b2088bbc	Available	vpc-0e6356255b5773c26 lab...	172.0.128.0/20
-	subnet-0a832a3bd59c5b8e8	Available	vpc-0e0fd8e39339b7b44	172.31.32.0/20
private-subnet	subnet-0ad71fdf7c87ed6b2	Available	vpc-080962a4df96683c1 my...	10.0.2.0/24
-	subnet-039aeb1a540b00d61	Available	vpc-0e0fd8e39339b7b44	172.31.16.0/20
public-subnet	subnet-06fd81eb466137ce0	Available	vpc-080962a4df96683c1 my...	10.0.1.0/24
labVpc-subnet-public2-ap-south-1b	subnet-011a3fc0e9dbe1ec8	Available	vpc-0e6356255b5773c26 lab...	172.0.16.0/20

At the bottom of the page, there is a "Select a subnet" dropdown menu.

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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

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Subnets (7)

Filter subnets

< 1 >

Actions

Create subnet

<input type="checkbox"/>	Name	Subnet ID	State	VPC
<input type="checkbox"/>	project-subnet-public2-ap-northeast-3b	subnet-0014becaf2760cd82	Available	vpc-0ffdabd8b7d8a0e1f proj...
<input type="checkbox"/>	-	subnet-0119088f0de561906	Available	vpc-04a9e956879fc19e
<input type="checkbox"/>	project-subnet-private1-ap-northeast-3a	subnet-036cf849c0c8ec016	Available	vpc-0ffdabd8b7d8a0e1f proj...
<input type="checkbox"/>	-	subnet-0f449a691b782ba84	Available	vpc-04a9e956879fc19e
<input type="checkbox"/>	project-subnet-private2-ap-northeast-3b	subnet-018f71f1c8cf737bb	Available	vpc-0ffdabd8b7d8a0e1f proj...
<input type="checkbox"/>	project-subnet-public1-ap-northeast-3a	subnet-00d7a66b281f7a597	Available	vpc-0ffdabd8b7d8a0e1f proj...
<input type="checkbox"/>	-	subnet-068726be2e59bfd38	Available	vpc-04a9e956879fc19e

2. CREATING AN APPLICATION LOAD BALANCER WITH TARGET GROUPS FOR SIMPLE WEBSITES WITH THE PATH BASED ROUTING

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, and Images. The main content area displays a table of instances:

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	ec2instance2	i-0f932450eb88ac9b9	Running Passes 2/2 checks	t2.micro	2/2 checks passed	No alarms	+ us-east-1b
<input type="checkbox"/>	ec2instance1	i-0c59cdec6f7e266f8	Terminated Passes 0/0 checks	t2.micro	-	No alarms	+ us-east-1b
<input type="checkbox"/>	ec2instance1	i-046b083865092efcf	Running Passes 2/2 checks	t2.micro	2/2 checks passed	No alarms	+ us-east-1a

Below the table, a modal window titled "Select an instance" is open, indicating that an instance needs to be chosen for further configuration.

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▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

▼ Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

▼ Load Balancing

Load Balancers

Target Groups

▼ Auto Scaling

Launch Configurations

Auto Scaling Groups

EC2 > Target groups

Target groups (1)



Actions

Create target group

Search or filter target groups

< 1 >

<input type="checkbox"/>	Name	ARN	Port	Protocol	Target type
<input type="checkbox"/>	ec2targets	arn:aws:elasticloadbalancing:...:targetgroup/ec2targets	80	HTTP	Instance

0 target groups selected

Select a target group above.

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

▼ Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

▼ Load Balancing

Load Balancers

Target Groups

▼ Auto Scaling

Launch Configurations

Auto Scaling Groups

EC2 > Load balancers

Load balancers (1)

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.



Actions ▾

Create load balancer

Filter by property or value

< 1 >



<input type="checkbox"/>	Name	DNS name	State	VPC ID	Availability Zones
<input type="checkbox"/>	ec2elb	ec2elb-1231465415.us-ea...	Active	vpc-0da43d1dfee6aff61	3 Availability Zones

0 load balancers selected



sg-073b8efd3e84faed5 - launch-wizard-3			
Details			
Security group name	Security group ID	Description	VPC ID
launch-wizard-3	sg-073b8efd3e84faed5	launch-wizard-3 created 2023-04-19T11:02:48.882Z	vpc-0da43d1dfee6aff61
Owner	Inbound rules count	Outbound rules count	
199007440657	2 Permission entries	1 Permission entry	

[Inbound rules](#) [Outbound rules](#) [Tags](#)

You can now check network connectivity with Reachability Analyzer

[Run Reachability Analyzer](#)

Inbound rules (2)

 Filter security group rules[Manage tags](#) [Edit inbound rules](#)[1](#)

<input type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range	Source
<input type="checkbox"/>	-	sgr-0790d5544138ff5da	IPv4	HTTP	TCP	80	0.0.0.0/0
<input type="checkbox"/>	-	sgr-01188827df31d30...	IPv4	SSH	TCP	22	0.0.0.0/0

3. CREATING A DOCKER HOST SERVER IN AWS EC2 INSTANCE AND RUNNING DOCKER CONTAINER

The screenshot shows a terminal session on an AWS EC2 instance connected via SSH. The terminal output is as follows:

```
Installed:
  containerd-1.6.19-1.amzn2023.0.1.x86_64      docker-20.10.17-1.amzn2023.0.6.x86_64      iptables-libs-1.8.8-3.amzn2023.0.2.x86_64      iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
  libcgroup-3.0-1.amzn2023.0.1.x86_64          libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64  libnftnl-1.0.1-19.amzn2023.0.2.x86_64        libnftnl-1.2.2-2.amzn2023.0.2.x86_64
  pigz-2.5-1.amzn2023.0.3.x86_64              runc-1.1.4-1.amzn2023.0.1.x86_64

Complete!
[ec2-user@ip-172-31-33-5 ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
[ec2-user@ip-172-31-33-5 ~]$ sudo docker info
Client:
  Context:    default
  Debug Mode: false

Server:
  Containers: 0
  Running: 0
  Paused: 0
  Stopped: 0
  Images: 0
  Server Version: 20.10.17
  Storage Driver: overlay2
  Backing Filesystem: xfs
  Supports d_type: true
  Native Overlay Diff: true
  userxattr: false
  Logging Driver: json-file
  Cgroup Driver: systemd
  Cgroup Version: 2
  Plugins:
    Volume: local

i-0d956a6bfa706ebdf (web2)
Public IPs: 13.127.173.247  Private IPs: 172.31.33.5
```

The terminal shows the successful installation of Docker packages, the start of the Docker service, and the execution of the `sudo docker info` command. The output provides details about the Docker daemon's configuration, including storage drivers, logging, and plugin status. At the bottom, it lists the instance ID (i-0d956a6bfa706ebdf) and its public and private IP addresses.

4. CREATING A DOCKER IMAGE USING DOCKER FILE AND PUSH IT TO AWS ECR

The screenshot shows the AWS ECR (Amazon Elastic Container Registry) console interface. The top navigation bar includes the AWS logo, services menu, search bar, and user information (Mumbai, Shreevarshan@1013). The left sidebar has a 'Repositories' section selected, along with links for 'Private registry', 'Public registry', 'Getting started', 'Documentation', and 'Public gallery'. The main content area displays 'Public repositories (1)' with a single entry: 'shree-varshan-repo'. The repository details show the URI as 'public.ecr.aws/q3g2h1m3/shree-varshan-repo' and a creation date of 'April 19, 2023, 12:19:51 (UTC+05.5)'. Action buttons for the repository include 'View push commands', 'Delete', 'Actions', and 'Create repository'.

Amazon Elastic Container Registry

Private registry

Public registry

Repositories

Getting started

Documentation

Public gallery

CloudShell Feedback Language

ap-south-1.console.aws.amazon.com/ecr/repositories?region=ap-south-1

[Alt+S]

Mumbai

Shreevarshan@1013 @ 1990-0744-0657

Amazon ECR > Repositories

Private Public

Public repositories (1)

Find repositories

Repository name URI Created at

Repository name	URI	Created at
shree-varshan-repo	public.ecr.aws/q3g2h1m3/shree-varshan-repo	April 19, 2023, 12:19:51 (UTC+05.5)

View push commands Delete Actions Create repository

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5. CREATING SIMPLE AWS PIPELINE FOR HOSTING STATIC WEBSITE IN S3

The screenshot shows the AWS CodePipeline console interface. On the left, a sidebar menu under 'Developer Tools' lists various services: Source (CodeCommit), Artifacts (CodeArtifact), Build (CodeBuild), Deploy (CodeDeploy), and Pipeline (CodePipeline). Under Pipeline, 'Getting started' and 'Pipelines' are listed, with 'Pipelines' being the active section. The main content area displays a table of pipelines. The table has columns for Name, Most recent execution, Latest source revisions, and Last executed. One pipeline is listed: 'MyFirstPipeline' (Status: Succeeded, Last executed 6 hours ago). At the top right of the main area, there is a 'Create pipeline' button.

Developer Tools > CodePipeline

Pipelines

Name	Most recent execution	Latest source revisions	Last executed
MyFirstPipeline	Succeeded	Source - NzSM9Ui.: Amazon S3 version id: NzSM9Ui.Ix3uR_xRUvBTQGPCvW3Nt265	6 hours ago

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CloudShell Feedback Language

ap-south-1.console.aws.amazon.com/codesuite/codepipeline/pipelines/MyFirstPipeline/view?regi... Search [Alt+S]

Mumbai Shreevarshan@1013 @ 1990-0744-0657

Developer Tools Services

CodePipeline

Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings
Go to resource
Feedback

Developer Tools > CodePipeline > Pipelines > MyFirstPipeline

MyFirstPipeline

Notify Edit Stop execution Clone pipeline Release change

Source Succeeded
Pipeline execution ID: bc211a9f-96ef-4b86-b8ca-aa468ffcd285

Source Amazon S3 ⓘ
Succeeded - 6 hours ago

Source: Amazon S3 version id: NzSM9UIlx3uR_xRUvBTQGPCvW3Nt265

Disable transition

Deploy Succeeded
Pipeline execution ID: bc211a9f-96ef-4b86-b8ca-aa468ffcd285

Deploy AWS CodeDeploy ⓘ
Succeeded - 6 hours ago
Details

Source: Amazon S3 version id: NzSM9UIlx3uR_xRUvBTQGPCvW3Nt265

SCREENRECORD