Tuesday, July 16, 2024

9:36 AM

**Project:**

Machine generated alternative text:
Region 
AvailabiliV Zone 
vpc 
9 
NAT gateway 
Availabilty Zone 
NAT gateway 
Applicaiion Load ncer 
Au Scali •ou 
*curry p 

**Components present**: Region -1,VPC,public subnet-2,private subnet -2SG-1,AS-1,ALB-1 ,jump host(public)(EC2 -2),bastion host(private) ec2-2

Steps:

Step 1:Create VPC--using vpc more option--public sub and private

Step 2:Launch template with newly created SG

Step 3: Auto scaling with created template --min 2 max :4 with private subnet

Step 4: application load balancer

**Step 1:Create VPC--using vpc more option--public sub and private**

Inside region : ap-south-1

Machine generated alternative text:
aws 
(g7) WhatsApp X Join conversatic X I Example: VPCw X I Welcometo AW X I VpcDetaiIsl VPC X I vpcslVPC 
CreateVpc I VPC 
4 
Subnets (4) 
Subnets within this VPC 
ap-south-la 
ap-south-lb 
Mumbai 
thilaga_aws 
Services Search 
(Att+S) 
Preview 
V PC Show details 
Your AWS virtual network 
project_vpc-vpc 
VPC settings 
Resources to create Info 
Create only the VPC resource or the VPC and other networking resources. 
C) VPC only 
Name tag auto-generation Info 
O VPC and more 
Enter a value for the Name tag. This value will be used to auto-generate Name 
tags for all resources in the VPC_ 
Auto-generate 
project_vpc 
IPv4 CIDR block Info 
Determine the starting IP and the size of your VPC using CIDR notation. 
project_vpc-subnet-publicl-ap- 
project_vpc-subnet-privatel -ap- 
project_vpc-subnet-public2-ap- 
project_vpc-subnet-private2-ap- 
10.0.0.0/16 
CIDR block size must be between / 16 and 128. 
IPv6 CIDR block Info 
O No IPv6 CIDR block 
C) Amazon-provided IPv6 CIDR block 
Tenancy Info 
CloudSheII Feedback 
p Type here to search 
65,536 IPS 
Privacy 
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31CC 
Terms Cookie preferences 
ENG 12:07 PM 
N 7/17/2024 

Machine generated alternative text:
aws 
(g7) WhatsApp X Join conversatic X I Example: VPCw X I Welcometo AW X I VpcDetaiIsl VPC X I vpcslVPC 
CreateVpc I VPC 
4 
Mumbai 
thilaga_aws 
Services Search 
(Att+S) 
Tenancy Info 
Default 
Number of Availability Zones (AZs) Info 
Choose the number of AZs in which to provision subnets. We recommend at least 
two AZs for high availability. 
3 
Customize AZs 
Number of public subnets Info 
The number of public subnets to add to your VPC_ Use public subnets for web 
applications that need to be publicly accessible over the internet. 
Number of private subnets Info 
The number of private subnets to add to your VPC. Use private subnets to secure 
backend resources that don't need public access. 
4 
Customize subnets CIDR blocks 
CloudSheII Feedback 
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ENG 12:07 PM 
N 7/17/2024 

Machine generated alternative text:
aws 
(g7) WhatsApp X Join conversatic X I Example: VPCw X I Welcometo AW X I VpcDetaiIsl VPC X I vpcslVPC 
CreateVpc I VPC 
4 
Mumbai 
thilaga_aws 
Services Search 
4 
(Att+S) 
Customize subnets CIDR blocks 
NAT gateways ($) Info 
Choose the number of Availability Zones (AZs) in which to create NAT gateways. 
Note that there is a charge for each NAT gateway 
None 
In 1 AZ 
1 per AZ 
VPC endpoints Info 
Endpoints can help reduce NAT gateway charges and improve security by 
accessing S3 directly from the VPC. By default, full access policy is used. You can 
customize this policy at any time. 
None 
DNS options Info 
S3 Gateway 
Enable DNS hostnames 
Enable DNS resolution 
Additional tags 
CloudSheII Feedback 
p Type here to search 
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N 7/17/2024 

2 NAT gateway 1 per AZ as showing diagram

Click create VPC

This will create public subnet,private subnet,route table ,route table association, 2 NAT gateway on in each AZ ,Internet gateway

Machine generated alternative text:
(g7) WhatsApp X Join conversatic X I Example: VPCw X I Welcome to AW X I VpcDetaiIs I VPC 
C 2; ap-south-1.console.aws.amazon.com/vpcconsole/home?regionzap-south-1#CreateVpcWizard: 
vpcs I VPC Conc 
CreateVpcWize 
4 
Mumbai 
thilaga_aws 
Services Search 
(Att+S) 
aws 
@ Success 
v Details 
@Create VPC: vpc-Obbb83047c4db147c 
@ Enable DNS hostnames 
@ Enable DNS resolution 
@Verifying VPC creation: vpc-Obbb83047c4db147c 
@Create S3 endpoint: vpce-09144cdc73ae01 d84 
@Create subnet: subnet-027b26c630ef5de32 
@Create subnet: subnet-002a981 ee36fc731 a 
@Create subnet: subnet-037bdf393a044f3df 
@Create subnet: subnet-095d7af5210b34aOe 
@Create internet gateway: igw-0163022511 Of6039f 
@Attach internet gateway to the VPC 
@Create route table: rtb-034ac7110e5f5b1 db 
@Create route 
@Associate route table 
@Associate route table 
@Allocate elastic 'P: eipalloc-02638198117d07810 
@Allocate elastic 'P: eipalloc-010905702329ae003 
@Create NAT gateway: nat-Oac12246084d7fc16 
CloudSheII Feedback 
p Type here to search 
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Privacy 
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ENG 12:11 PM 
N 7/17/2024 

Machine generated alternative text:
(g7) WhatsApp X Join conversatic X I Example: VPCw X I Welcome to AW X 
VpcDetaiIs I VPC 
vpcs I VPC Conc 
Last updated 
less than a minute ago 
vpcs I VPC Cony 
4 
Actions 
Services Search 
(I) Info 
Your VPCs 
Q Search 
Name 
project_vpc-vpc 
v 
vpc ID 
vpc-Obbb83047c4db147c 
V 
aws 
Mumbai thilaga_aws 
v DHCP option 
dopt-01 e2d58 
Terms Cookie preferences 
ENG 12:11 PM 
N 7/17/2024 
(Att+S) 
State 
@Available 
v 
IPv4 CIDR 
10.0.0.0/16 
v IPv6 CIDR 
Select a VPC above 
CloudSheII Feedback 
p Type here to search 
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Privacy 

**Step 2:Launch template with private subnet**

Machine generated alternative text:
aws 
20 
Google Chrome isn't your default browser 
Set as default 
: Services Q Search 
EC2 Launch templates Create launch template 
Create launch template 
Exam x x Resur x Thilw x 
a 
Intrcc X Chatt 
Creat 
Crezt 
Summary 
4 
ap-sc 
o 
thilaga_aws 
(Alt+S) 
Mumbai 
Software Image (AMI) 
Amazon Linux 2023 AMI 2023.5.2...read more 
am i-OecOeI 2Sbb6c6e8ec 
Virtual server type (instance type) 
t2. micro 
Firewall (security group) 
Storage (volumes) 
1 volume(s) - 8 GiB 
G) Free tier: In your first year 
includes 750 hours of t2.micro (or 
Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at 
a later time. Templates can have multiple versions. 
Launch template name and description 
Launch template name - required 
newtemplate 
Must be unique to this account. Max 128 chars. No spaces or special characters like '8 , 
Template version description 
A prod webserver for MyApp 
Max 255 chars 
Auto Scaling guidance Info 
Select this if you intend to use this template with EC2 Auto Scaling 
Provide guidance to help me set up a template that I can use with EC2 Auto 
Cancel 
Create launch template 
CloudSheII Feedback 
p Type here to search 
@ 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 
ENG 1046 AM 
29cc Mostly cloudy A 
N 7/16/2024 

Machine generated alternative text:
aws 
20 
Google Chrome isn't your default browser 
Set as default 
: Services Q Search 
below 
Q Search our full catalog including 7000s of application and OS images 
Exam x x Resur x Thilw x 
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Summary 
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ap-sc 
o 
thilaga_aws 
(Alt+S) 
Browse more AMIS 
Including AMIS from 
AWS, Marketplace and 
the Community 
Free tier eligible 
Mumbai 
Red H 
Red 
Quick Start 
Don't include 
in launch 
template 
Amazon 
Linux 
aws 
macOS 
Mac 
Ubuntu 
ubuntuø 
Windows 
Microsoft 
Software Image (AMI) 
Amazon Linux 2023 AMI 2023.5.2...read more 
am i-OecOeI 2Sbb6c6e8ec 
Virtual server type (instance type) 
t2. micro 
Firewall (security group) 
Storage (volumes) 
1 volume(s) - 8 GiB 
G) Free tier: In your first year 
includes 750 hours of t2.micro (or 
It 
Amazon Machine Image (AMI) 
Amazon Linux 2023 AMI 
ami-OecOeI 25bb6c6e8ec (64-bit (x86), uefi-preferred) / ami-Ogb45gd14g8aOc8e2 (64-bit (Arm), uefi) 
Virtualization: hvm ENA enabled: true Root device type: ebs 
Description 
Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. 
is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to 
develop and run your cloud applications. 
CloudSheII Feedback 
p Type here to search 
Cancel 
Create launch template 
@ 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 
ENG AM 
29cc Mostly cloudy A 
N 7/16/2024 

Machine generated alternative text:
aws 
20 
Google Chrome isn't your default browser 
Set as default 
: Services Q Search 
Exam x x Resur x Thilw x 
a 
Intrcc X Chatt 
Creat 
Crezt 
Summary 
4 
ap-sc 
o 
thilaga_aws 
(Alt+S) 
Mumbai 
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 
newkeypairforminiproject 
v Network settings Info 
Subnet Info 
subnet-04c698d5db723424a 
project-subnet-privatel-ap-south-la 
Software Image (AMI) 
Amazon Linux 2023 AMI 2023.5.2...read more 
am i-OecOeI 2Sbb6c6e8ec 
Virtual server type (instance type) 
t2. micro 
Firewall (security group) 
Storage (volumes) 
1 volume(s) - 8 GiB 
G) Free tier: In your first year 
includes 750 hours of t2.micro (or 
Create new key pair 
Create new subnet 
vpc: vpc-Oc75f71bd4c7fd160 Owner: 533267223187 
Availability Zone: ap-south-l a IP addresses available: 4091 CIDR: 
When you specify a subnet, a network interface automatically added to your template. 
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. 
O Select existing security group 
CloudSheII Feedback 
p Type here to search 
C) Create security group 
Cancel 
Create launch template 
@ 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 
ENG AM 
29cc Mostly cloudy A 
N 7/16/2024 

Machine generated alternative text:
aws 
20 
Google Chrome isn't your default browser 
Set as default 
: Services Q Search 
EC2 Launch templates Create launch template 
@ Success 
Successfully created newtemplate(lt-Oa5cc160170139c21). 
Actions log 
Next Steps 
Launch an instance 
Exam x x Resur x Thilw x 
a 
Intrcc X Chatt 
Creat 
Crezt 
ap-sc 
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(Alt+S) 
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Mumbai 
With On-Demand Instances, you pay for compute capacity by the second (for Linux, with a minimum of 60 seconds) or by the hour (for all other operating systems) with no long- 
term commitments or upfront payments. Launch an On-Demand Instance from your launch template. 
Launch instance from this template 
Create an Auto Scaling group from your template 
Amazon EC2 Auto Scaling helps you maintain application availability and allows you to scale your Amazon EC2 capacity up or down automatically according to conditions you define. 
You can use Auto Scaling to help ensure that you are running your desired number of Amazon EC2 instances during demand spikes to maintain performance and decrease capacity 
during lulls to reduce costs. 
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Privacy 
CloudSheII Feedback 
p Type here to search 
Terms Cookie preferences 
ENG AM 
N 7/16/2024 

**Step 2: Launch Template in AS and create AS**

Note : we are going to create jump host which means ec2 instance in private subnet.

So we need to select only private subnet in Launch

Create security group first so that we can use it template while creating

Machine generated alternative text:
(g7) WhatsApp X Join conversatic X I Example: VPC w X 
I Welcome to AW X AWS Auto Scali- 
C 2; ap-south-1.console.aws.amazon.com/ec2/home?regionzap-south-1 #CreateSecurityGroup: 
What is Amazcr 
CreateSecurityC 
4 
Mumbai 
thilaga_aws 
Services Search 
(Att+S) 
aws 
Security group name Info 
projsg 
Name cannot be edited after creation. 
Description Info 
Allows SSH access to developers 
VPC Info 
vpc-Obbb83047c4db147c (project vpc-vpc) 
Inbound rules Info 
This security group has no inbound rules. 
Add rule 
CloudSheII Feedback 
p Type here to search 
@ 2024, Amazon Web Services, Inc. or its affiliates. 
31cc A 
Privacy 
Terms Cookie preferences 
E NG 3:44 p M 
N 7/17/2024 

Machine generated alternative text:
aws 
Description - optional Info 
(g7) WhatsApp X Join conversatic X I Example: VPCw X 
I Welcome to AW X AWS Auto Scali- 
C 2; ap-south-1.console.aws.amazon.com/ec2/home?regionzap-south-1 #CreateSecurityGroup: 
What is Amazcr 
CreateSecurityC 
Mumbai 
Delete 
Delete 
Delete 
Delete 
4 
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thilaga_aws 
Services Search 
Inbound rules Info 
Type Info 
SSH 
All TCP 
HTTP 
All traffic 
Add rule 
CloudSheII Feedback 
p Type here to search 
Port range 
22 
o- 65535 
80 
Source 
Any 
Any 
Any... 
Any... 
(Att+S) 
0.0.0.0/0 X 
0.0.0.0/0 X 
0.0.0.0/0 X 
0.0.0.0/0 X 
Info 
Protocol 
Info 
TCP 
TCP 
TCP 
Info 
Privacy 
Terms Cookie preferences 
ENG 3:45 PM 
N 7/17/2024 
31CC 

Machine generated alternative text:
Description - optional Info 
(g7) WhatsApp X Join conversatic X I Example: VPC w X 
I Welcome to AW X AWS Auto Scali- 
C 2; ap-south-1.console.aws.amazon.com/ec2/home?regionzap-south-1 #CreateSecurityGroup: 
Services Search 
(Att+S) 
Add rule 
What is Amazcr 
CreateSecurityC 
4 
Mumbai 
thilaga_aws 
aws 
Rules with source of 0.0.0.0/0 or •.:/O allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only. 
Outbound rules Info 
Type Info 
All traffic 
Add rule 
Protocol 
Info 
Port range 
Info 
Destination Info 
Any... 
0.0.0.0/0 X 
Delete 
Rules with destination of 0.0.0.0/0 or allow all IP addresses to leave the instance. We recommend setting security group rules to leave the instance from known IP addresses 
only. 
CloudSheII Feedback 
p Type here to search 
@ 2024, Amazon Web Services, Inc. or its affiliates. 
31cc A 
Privacy 
Terms Cookie preferences 
ENG 3:45 PM 
N 7/17/2024 

Machine generated alternative text:
Name 
V 
Security group ID 
Sg -04fd8a2d8dfc7f2a6 
V 
Security group name 
projsg 
v 
vpc ID 
vpc-Obbb83047c4db 147c 

Go to Auto scaling --->Launch template--->create template

Machine generated alternative text:
cg7) Whatsz 
X Join convers X I Example: WI X I Welcometc X AWS AutoS X I What is Am: X 
Create Autc 
Create launc 
thilaga_aws 
(Att+S) 
4 
v Summary 
Software Image (AMI) 
Virtual server type (instance type) 
Firewall (security group) 
Storage (volumes) 
G) 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 AM's per 
Mumbai 
aws 
Services Search 
Create launch template 
Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at 
a later time. Templates can have multiple versions. 
Launch template name and description 
Launch template name - required 
jumphost 
Must be unique to this account. Max 128 chars. No spaces or special characters like '8 , 
Template version description 
jump host private instance 
Max 255 chars 
Auto Scaling guidance Info 
Select this if you intend to use this template with EC2 Auto Scaling 
Provide guidance to help me set up a template that I can use with EC2 Auto 
Scaling 
Template tags 
Source template 
Cancel 
Create launch template 
CloudSheII Feedback 
p Type here to search 
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31cc A 
Privacy Terms Cookie preferences 
ENG 3:48 PM 
N 7/17/2024 

Machine generated alternative text:
aws 
x Join convers x I Example: WI x I Welcometc 
Services Search 
X AWS AutoS X I What is Ann : X 
(Att+S) 
SUSE Li 
Create Autc 
Create launc 
thilaga_aws 
Ubuntu 
ubuntuø 
Windows 
Microsoft 
Red Hat 
4 
v Summary 
Software Image (AMI) 
Mumbai 
Recents 
Amazon 
Linux 
aws 
Quick Start 
macOS 
Mac 
Amazon Linux 2023 AMI 2023.5.2...read more 
am i-OecOeI 2Sbb6c6e8ec 
Virtual server type (instance type) 
Firewall (security group) 
Storage (volumes) 
1 volume(s) - 8 GiB 
G) 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 
Browse more AMIS 
Including AMIS from 
AWS, Marketplace and 
the Community 
Free tier eligible 
Red Hat 
SUS 
Amazon Machine Image (AMI) 
Amazon Linux 2023 AMI 
ami-OecOeI 25bb6c6e8ec (64-bit (x86), uefi-preferred) / ami-Ogb45gd14g8aOc8e2 (64-bit (Arm), uefi) 
Virtualization: hvm ENA enabled: true Root device type: ebs 
Description 
Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It 
is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to 
develop and run your cloud applications. 
AMI ID 
ami-OecOe125bb6c6e8ec 
Verified provider 
Architecture 
64-bit (x86) 
CloudSheII Feedback 
p Type here to search 
Boot mode 
uefi-preferred 
Cancel 
Create launch template 
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Privacy Terms Cookie preferences 
ENG 3:48 PM 
N 7/17/2024 

Machine generated alternative text:
aws 
x Join convers x I Example: WI x I Welcometc 
Services Search 
Create key pair 
Key pair name 
X AWS AutoS X I What is Ann : X 
(Att+S) 
Create Autc 
Create launc 
thilaga_aws 
4 
Mumbai 
Key pairs allow you to connect to W)ur instance securely. 
p rojectl 
The name can include up to 2SS ASCII characters. It can't include leading or trailing spaces. 
Key pair type 
O RSA 
RSA encrypted private and public key 
pair 
Private key file format 
O . pem 
For use with OpenSSH 
C) .ppk 
For use with PuTTY 
O ED25519 
ED2551 g encrypted private and public 
key pair 
When prompted, store the private key in a secure and accessible location on 
Cancel 
reate k 
ai 
CloudSheII Feedback 
p Type here to search 
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ENG PM 
N 7/17/2024 

Give the created Security group

Machine generated alternative text:
aws 
x Join convers x I Example: WI x I Welcometc 
Services Search 
Subnet Info 
Don't include in launch template 
X AWS AutoS X I What is Ann : X 
(Att+S) 
Create new subnet 
Create Autc 
4 
v Summary 
Software Image (AMI) 
Create launc 
Mumbai 
thilaga_aws 
When you specify a subnet, a network interface is automatically added to your template. 
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 
Amazon Linux 2023 AMI 2023.5.2...read more 
am i-OecOeI 2Sbb6c6e8ec 
Virtual server type (instance type) 
t2. micro 
Firewall (security group) 
projsg 
Storage (volumes) 
1 volume(s) - 8 GiB 
G) 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 
instance. 
O Select existing security group 
Security groups Info 
Select security groups 
projsg sg-04fd8a2d8dfc7f2a6 X 
VPC: vpc-Obbb83047c4dbI 47c 
Advanced network configuration 
C) Create security group 
Compare security 
group rules 
Hide details 
v Storage (volumes) 
EBS Volumes 
CloudSheII Feedback 
p Type here to search 
Info 
Cancel 
Create launch template 
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Privacy Terms Cookie preferences 
ENG PM 
N 7/17/2024 

Machine generated alternative text:
It-084e6c85cacf83d5a 
jumphost 

**Step 3: Auto scaling with created template --min 2 max :4 with private subnet**

Machine generated alternative text:
aws 
x Join convers x I Example: WI x I Welcometc 
x AWS AutoS x I 
(Att+S) 
What is Ann: 
Create Autc 
4 
Create Autc 
Mumbai 
thilaga_aws 
Name 
Auto Scaling group name 
Enter a name to identify the group. 
Project_AS_private 
Must be unique to this account in the current Region and no more than 255 characters. 
Launch template Info 
@ For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with 
launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still 
available via the CLI and API until December 31, 2023. 
Launch template 
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and 
security groups. 
jumphost 
Create a launch template 
Version 
Default (l) 
@ 2024, Amazon Web Services, Inc. or its affiliates. 
Services Search 
Choose instance launch options 
Step 3 - optional 
Configure advanced options 
Step 4 - optional 
Configure group size and 
scaling 
Step S - optional 
Add notifications 
Step 6 - optional 
Add tags 
Step 7 
Review 
CloudSheII Feedback 
p Type here to search 
Privacy 
Terms Cookie preferences 
ENG 3:56 PM 
N 7/17/2024 

Machine generated alternative text:
aws 
x Join convers x I Example: WI x I Welcometc 
x AWS AutoS x I 
(Att+S) 
What is Ann: 
Create Autc 
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Create Autc 
Mumbai 
thilaga_aws 
e wor 
Info 
Services Search 
Add tags 
Step 7 
Review 
For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across 
the zones. The default VPC and default subnets are suitable for getting started quickly. 
vpc 
Choose the VPC that defines the virtual network for your Auto Scaling group. 
vpc-Obbb83047c4db147c (project vpc-vpc) 
10.0.0.0/16 
Create a VPC 
Availability Zones and subnets 
Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC. 
Select Availability Zones and subnets 
ap-south-la I subnet-037bdf393a044f3df 
(p roject_vpc-subnet-private 1 -ap-south- 1 a) 
10.0.128_0/20 
ap-south-lb I subnet-095d7af5210b34aOe 
(p roject_vpc-subnet-private2-ap-south-1 b) 
10.0.144_0/20 
Create a subnet 
@ 2024, Amazon Web Services, Inc. or its affiliates. 
CloudSheII Feedback 
p Type here to search 
Privacy 
Terms Cookie preferences 
ENG 4:00 PM 
N 7/17/2024 

Note: we need to select only private subnet as its given in architecture diagram

Machine generated alternative text:
aws 
x Join convers x I Example: WI x I Welcometc x AWS AutoS x I 
What is Ann: 
Create Autc 
Create Autc 
Mumbai 
thilaga_aws 
(Att+S) 
Choose the unit of measurement for the desired capacity value. vCPUs and Memory(GiB) are only supported for mixed instances groups 
configured with a set of instance attributes. 
Units (number of instances) 
Desired capacity 
Specify your group size. 
2 
Scaling Info 
You can resize your Auto Scaling group manually or automatically to meet changes in demand. 
Scaling limits 
Set limits on how much your desired capacity can be increased or decreased. 
Services Search 
Configure group size and 
scaling 
Step S - optional 
Add notifications 
Step 6 - optional 
Add tags 
Step 7 
Review 
Min desired capacity 
2 
Equal or less than desired 
capacity 
Max desired capacity 
4 
Equal or greater than desired 
capacity 
Automatic scaling - optional 
Choose whether to use a target tracking policy Info 
You can set up other metric-based scaling policies and scheduled scaling after creating your Auto Scaling group. 
O No scaling policies 
C) Target tracking scaling policy 
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CloudSheII Feedback 
p Type here to search 
Privacy 
Terms Cookie preferences 
ENG 4:01 PM 
N 7/17/2024 

We need 2 private ec2 instance 1 for each private subnet as per given diagram ,so selecting desired 2,min-2,max-4

Machine generated alternative text:
Q Search your Auto Scaling groups 
Name 
Project_AS_private 
Launch template/configuration 
jumphost I Version Default 
v 
Instances 
V 
Status 
@ Updating capacity.. 
Desired capacity 
2 
v 
Min v 
2 
Ma 
4 

**Step 4: create new instance for public subnet(Bastion host)**

Machine generated alternative text:
aws 
x Join convers x I Example: WI x I Welcometc 
Services Search 
Name and tags Info 
Name 
bastion host 
X AWS Aut o S 
(Att+S) 
What is Ann: 
Launch an 
4 
v Summary 
Number of instances 
Software Image (AMI) 
Instances I 
I nfo 
Mumbai 
thilaga_aws 
Add additional tags 
v 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 AM's if you don't see what you are looking for 
below 
Q Search our full catalog including 7000s of application and OS images 
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t2. micro 
Firewall (security group) 
New security group 
Storage (volumes) 
1 volume(s) - 8 GiB 
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Software Image (AMI) 
Instances I 
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v Instance type Info I Get advice 
Instance type 
t2. micro 
Family. t2 1 vCPU I GiB Memory Current generation: true 
On-Demand Linux base pricing: 0.0124 USD per Hour 
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Additional costs apply for AMIS with pre-installed software 
v Key pair (login) Info 
thilaga_aws 
Free tier eligible 
All generations 
Compare instance types 
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Virtual server type (instance type) 
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Firewall (security group) 
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Review commands 
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 
project 
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Services Search 
Auto-assign public IP Info 
Disable 
Firewall (security groups) Info 
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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. 
C) Create security group 
Common security groups Info 
Select security groups 
projsg sg-04fd8a2d8dfc7f2a6 X 
VPC: vpc-Obbb83047c4db147c 
O Select existing security group 
Compare security 
group rules 
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Virtual server type (instance type) 
t2. micro 
Firewall (security group) 
projsg 
Storage (volumes) 
1 volume(s) - 8 GiB 
Cancel 
Review commands 
Security groups that you add or remove here will be added to or removed from all your network interfaces. 
v Configure storage Info 
V 
Advanced 
Root volume (Not encrypted) 
8 
GiB gps 
@ Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage 
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Services Search 
Key pair name - required 
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v Network settings Info 
VPC - required Info 
vpc-Ob bb83047c4db 147c (project_vpc-vpc) 
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v Summary 
Number of instances 
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Virtual server type (instance type) 
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Firewall (security group) 
projsg 
Storage (volumes) 
1 volume(s) - 8 GiB 
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Review commands 
10.0.0.0/16 
Subnet Info 
subnet-027b26c630ef5de32 
project_vpc-subnet-publicl-ap-south-la 
vpc: vpc-Obbb83047c4db147c Owner: 533267223187 
Availability Zone: ap-south-l a IP addresses available: 4090 CIDR: 
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. 
C) Create security group 
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O Select existing security group 
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Allow tags in metadata 
Select 
Info 
user data - optional Info 
Upload a file with your user data or enter it in the field. 
Choose file 
yum update -y 
yum install -y 
sta rt 
enable 
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EC2 Instances Launch an instance 
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if you have questions. 
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Retry failed tas s 
v Launch log 
Initializing requests 
Creating security groups 
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