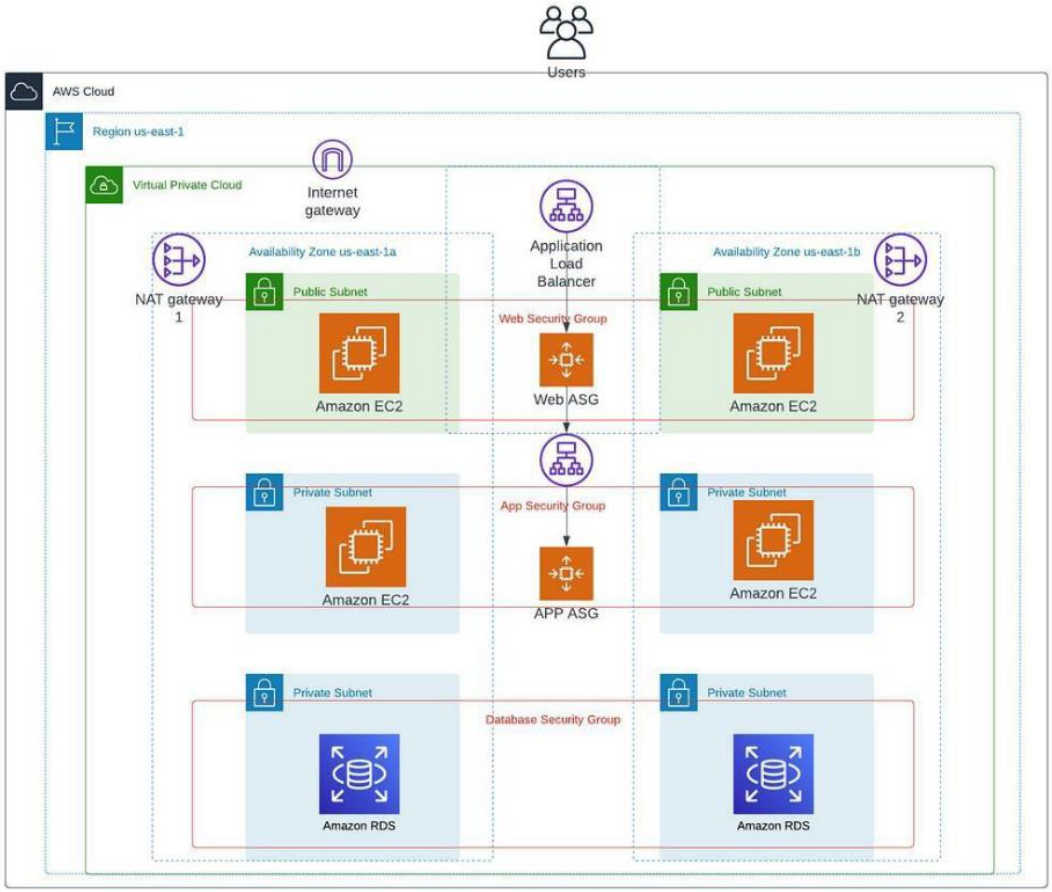
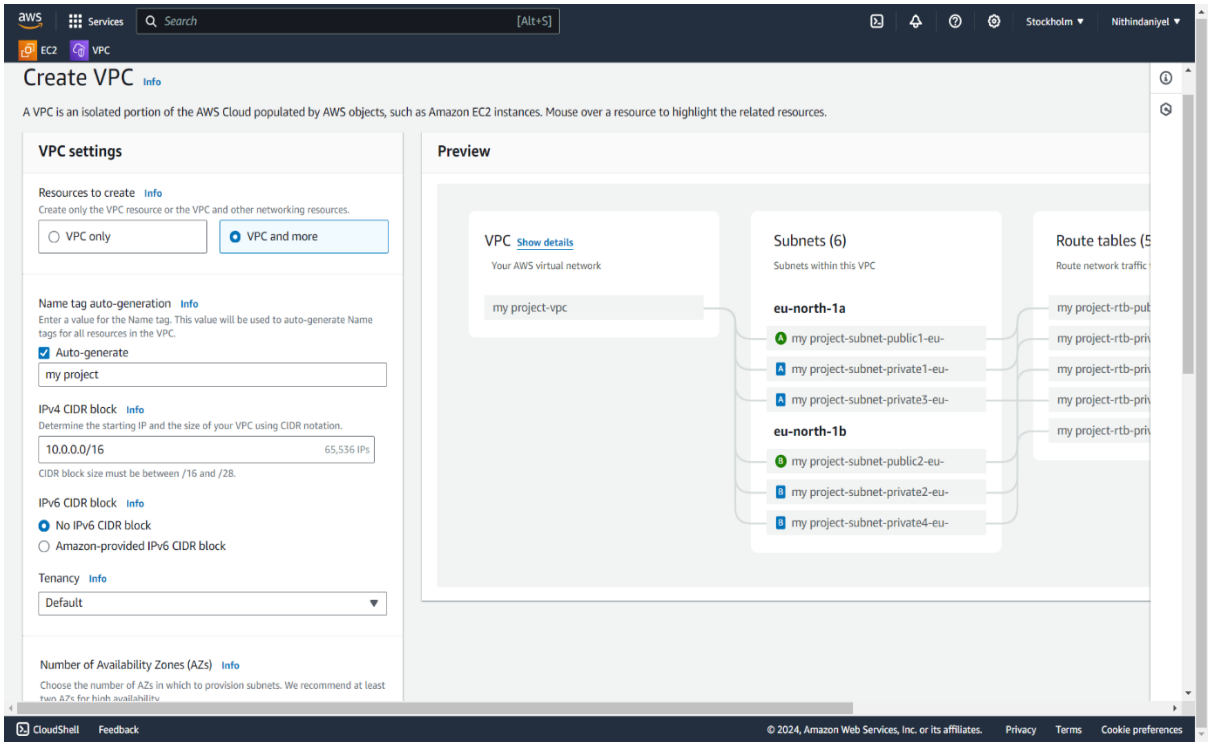
Three tier Project



A three-tier architecture comprises three layers, namely the presentation tier, the application tier, and the data tier. The presentation tier serves as the front-end, hosting the user interface, such as the website that users or clients interact with. The application tier, commonly referred to as the back-end, processes the data. Finally, the data tier is responsible for data storage and management.


Services
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EC2
VPC
Create VPC Info
A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances. Mouse over a resource to highlight the related resources.
VPC settings
Resources to create Info
Create only the VPC resource or the VPC and other networking resources.
VPC only
VPC and more
Name tag auto-generation Info
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
my project
IPv4 CIDR block Info
Determine the starting IP and the size of your VPC using CIDR notation.
10.0.0.0/16
65,536 IPs
CIDR block size must be between /16 and /28.
IPv6 CIDR block Info
No IPv6 CIDR block
Amazon-provided IPv6 CIDR block
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.
Preview
VPC Show details
Your AWS virtual network
my project-vpc
Subnets (6)
Subnets within this VPC
eu-north-1a
my project-subnet-public1-eu-
my project-subnet-private1-eu-
my project-subnet-private3-eu-
eu-north-1b
my project-subnet-public2-eu-
my project-subnet-private2-eu-
my project-subnet-private4-eu-
Route tables (5
Route network traffic
my project-rtb-pub
my project-rtb-priv
my project-rtb-priv
my project-rtb-priv
my project-rtb-priv
CloudShell
Feedback
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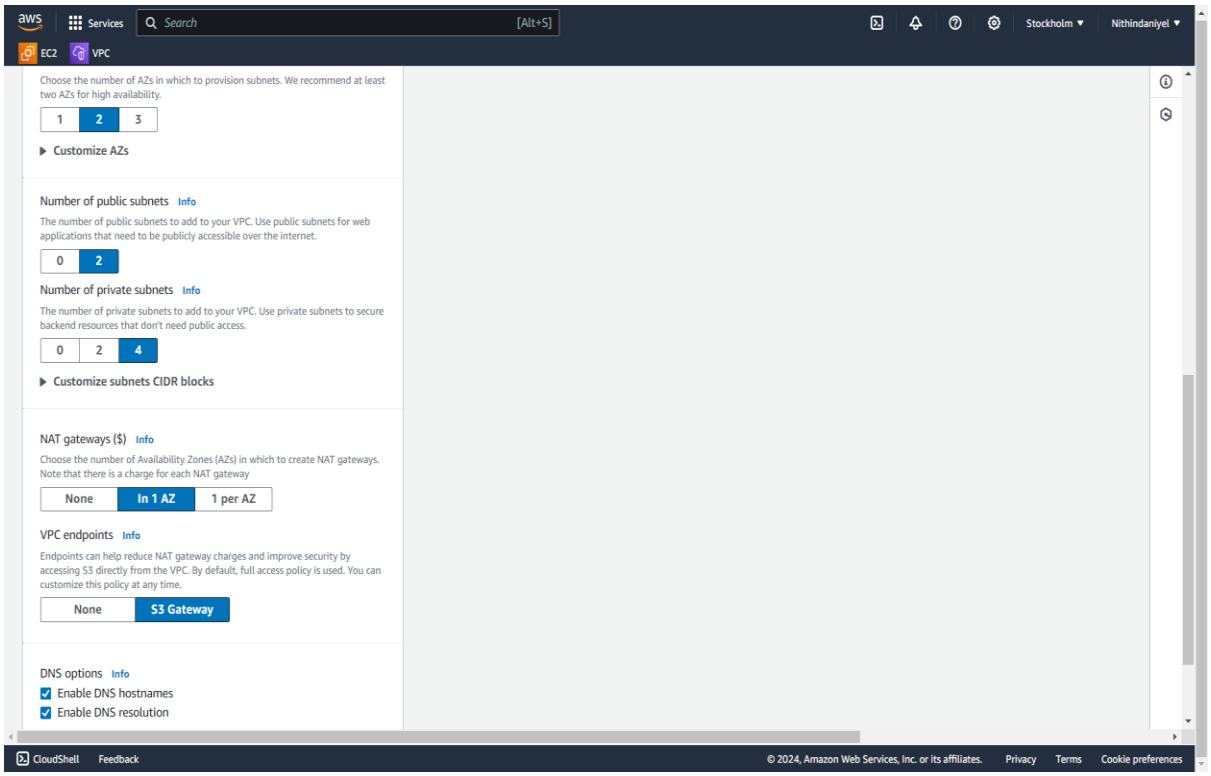
Services
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EC2
VPC
Choose the number of AZs in which to provision subnets. We recommend at least two AZs for high availability.
1
2
3
Customize AZs
Number of public subnets Info
The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.
0
2
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.
0
2
4
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
S3 Gateway
DNS options Info
Enable DNS hostnames
Enable DNS resolution
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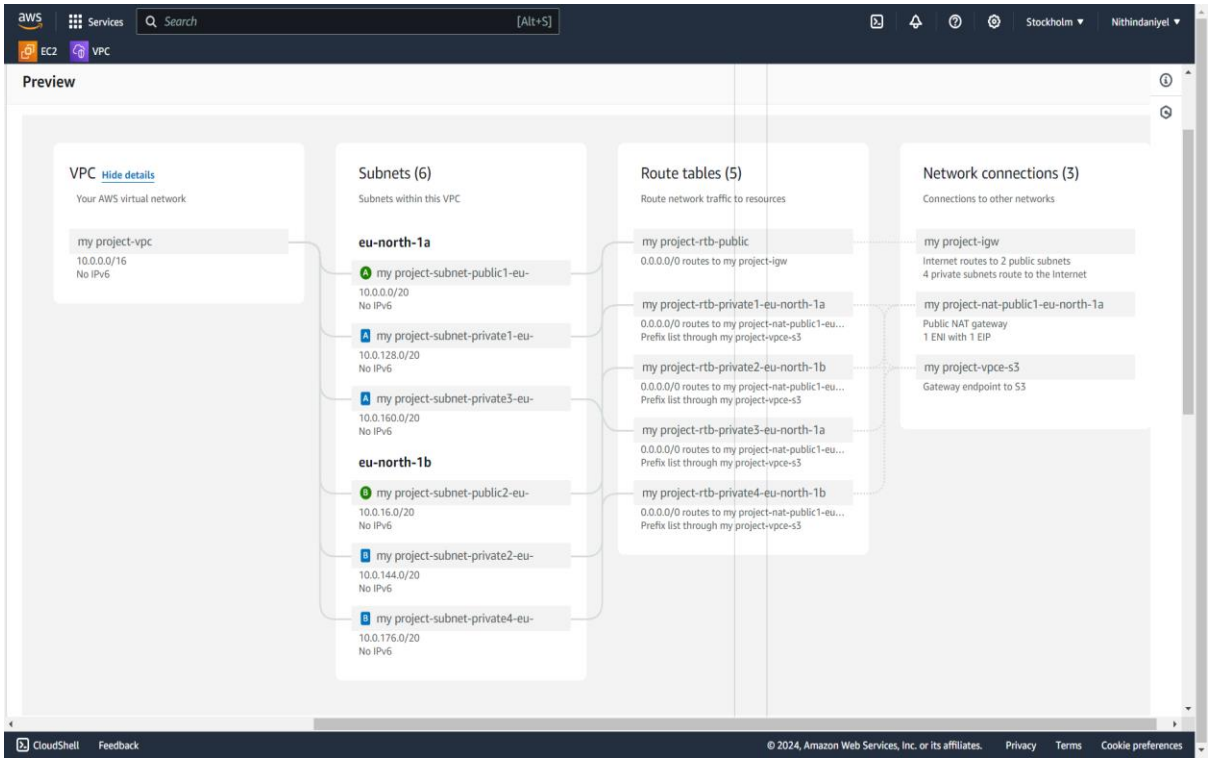
Services
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EC2
VPC
Preview
VPC Hide details
Your AWS virtual network
my project-vpc
10.0.0.0/16
No IPv6
Subnets (6)
Subnets within this VPC
eu-north-1a
my project-subnet-public1-eu-
10.0.0.0/20
No IPv6
my project-subnet-private1-eu-
10.0.128.0/20
No IPv6
my project-subnet-private3-eu-
10.0.160.0/20
No IPv6
eu-north-1b
my project-subnet-public2-eu-
10.0.16.0/20
No IPv6
my project-subnet-private2-eu-
10.0.144.0/20
No IPv6
my project-subnet-private4-eu-
10.0.176.0/20
No IPv6
Route tables (5)
Route network traffic to resources
my project-rtb-public
0.0.0.0/0 routes to my project-igw
my project-rtb-private1-eu-north-1a
0.0.0.0/0 routes to my project-nat-public1-eu...
Prefix list through my project-vpce-s3
my project-rtb-private2-eu-north-1b
0.0.0.0/0 routes to my project-nat-public1-eu...
Prefix list through my project-vpce-s3
my project-rtb-private3-eu-north-1a
0.0.0.0/0 routes to my project-nat-public1-eu...
Prefix list through my project-vpce-s3
my project-rtb-private4-eu-north-1b
0.0.0.0/0 routes to my project-nat-public1-eu...
Prefix list through my project-vpce-s3
Network connections (3)
Connections to other networks
my project-igw
Internet routes to 2 public subnets
4 private subnets route to the Internet
my project-nat-public1-eu-north-1a
Public NAT gateway
1 ENI with 1 EIP
my project-vpce-s3
Gateway endpoint to S3
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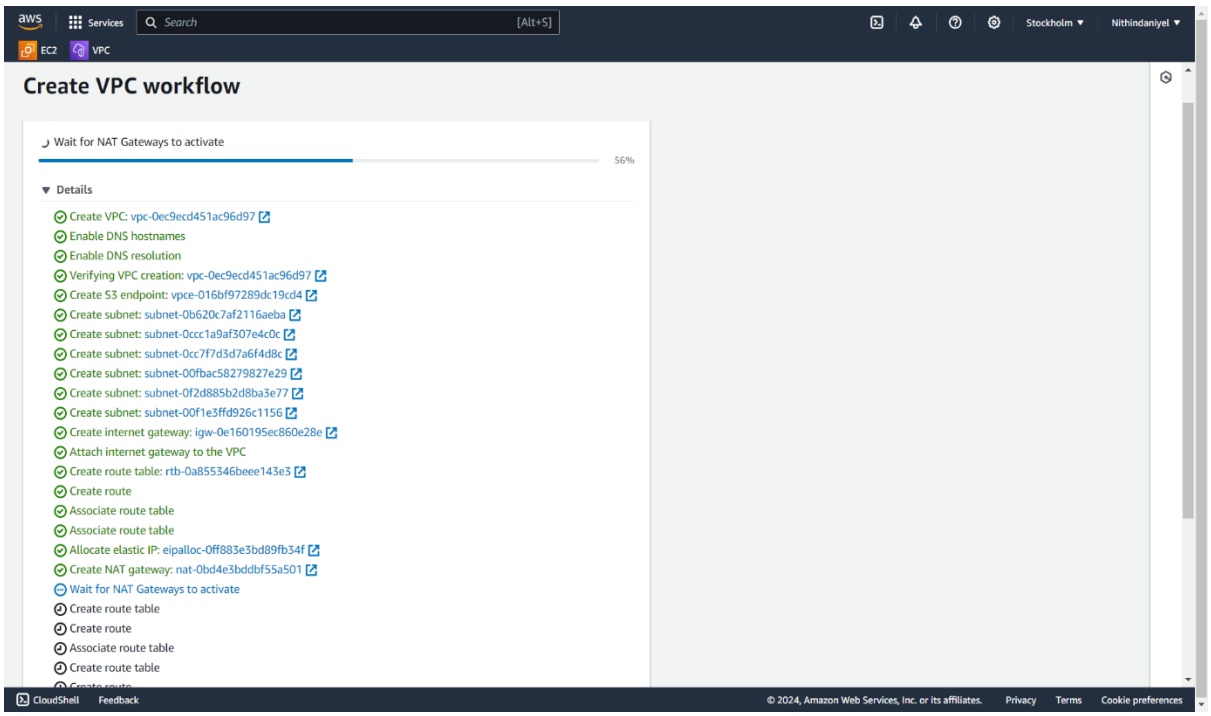
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EC2
VPC
Create VPC workflow
Wait for NAT Gateways to activate
56%
Details
Create VPC: vpc-0ec9ecd451ac96d97
Enable DNS hostnames
Enable DNS resolution
Verifying VPC creation: vpc-0ec9ecd451ac96d97
Create S3 endpoint: vpce-016bf97289dc19cd4
Create subnet: subnet-0b620c7af2116aeba
Create subnet: subnet-0ccc1a9af307e4c0c
Create subnet: subnet-0cc7f7d3d7a6f4d8c
Create subnet: subnet-00fbac58279827e29
Create subnet: subnet-0f2d885b2d8ba3e77
Create subnet: subnet-00f1e3ffd926c1156
Create internet gateway: igw-0e160195ec860e28e
Attach internet gateway to the VPC
Create route table: rtb-0a855346beee143e3
Create route
Associate route table
Associate route table
Allocate elastic IP: eipalloc-0ff883e3bd89fb34f
Create NAT gateway: nat-0bd4e3bddbf55a501
Wait for NAT Gateways to activate
Create route table
Create route
Associate route table
Create route table
CloudShell
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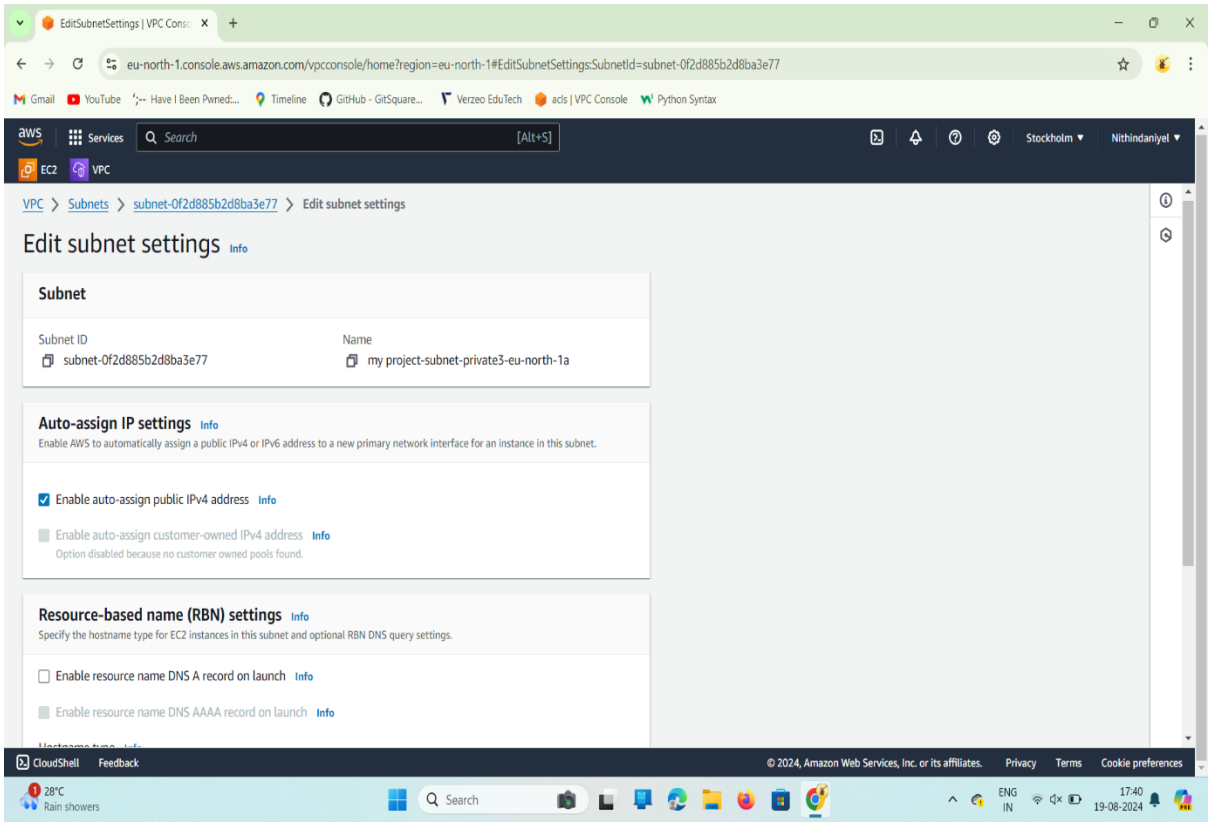
EditSubnetSettings | VPC Cons
eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#EditSubnetSettings:SubnetId=subnet-0f2d885b2d8ba3e77
Gmail
YouTube
Have I Been Pwned:...
Timeline
GitHub - GitSquare...
Verzeo EduTech
acls | VPC Console
Python Syntax
aws
Services
Search
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EC2
VPC
VPC > Subnets > subnet-0f2d885b2d8ba3e77 > Edit subnet settings
Edit subnet settings Info
Subnet
Subnet ID
subnet-0f2d885b2d8ba3e77
Name
my project-subnet-private3-eu-north-1a
Auto-assign IP settings Info
Enable AWS to automatically assign a public IPv4 or IPv6 address to a new primary network interface for an instance in this subnet.
Enable auto-assign public IPv4 address Info
Enable auto-assign customer-owned IPv4 address Info
Option disabled because no customer owned pools found.
Resource-based name (RBN) settings Info
Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.
Enable resource name DNS A record on launch Info
Enable resource name DNS AAAA record on launch Info
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Rain showers
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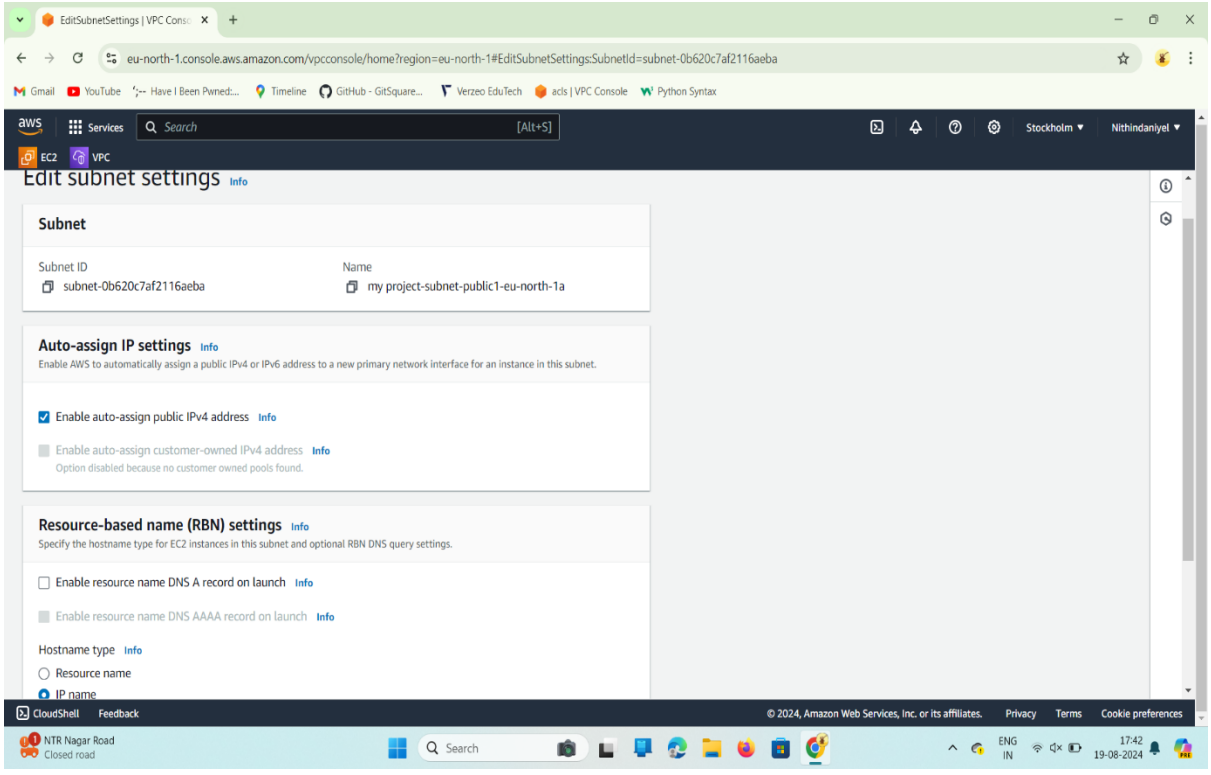
IN
17:40
19-08-2024


EditSubnetSettings | VPC Cons
eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#EditSubnetSettings:SubnetId=subnet-0b620c7af2116aeba
Gmail
YouTube
Have I Been Pwned:...
Timeline
GitHub - GitSquare...
Verzeo EduTech
acls | VPC Console
Python Syntax
aws
Services
Search
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EC2
VPC
Edit subnet settings Info
Subnet
Subnet ID
subnet-0b620c7af2116aeba
Name
my project-subnet-public1-eu-north-1a
Auto-assign IP settings Info
Enable AWS to automatically assign a public IPv4 or IPv6 address to a new primary network interface for an instance in this subnet.
Enable auto-assign public IPv4 address Info
Enable auto-assign customer-owned IPv4 address Info
Option disabled because no customer owned pools found.
Resource-based name (RBN) settings Info
Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.
Enable resource name DNS A record on launch Info
Enable resource name DNS AAAA record on launch Info
Hostname type Info
Resource name
IP name
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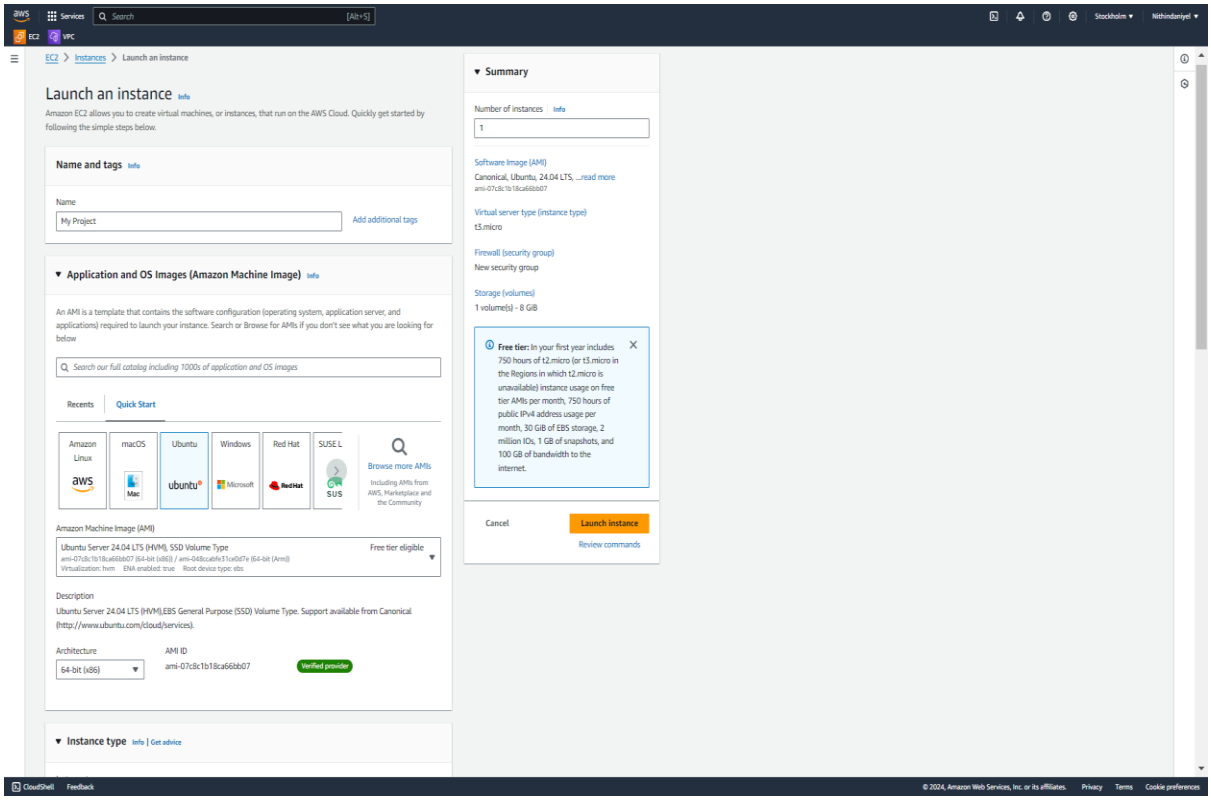
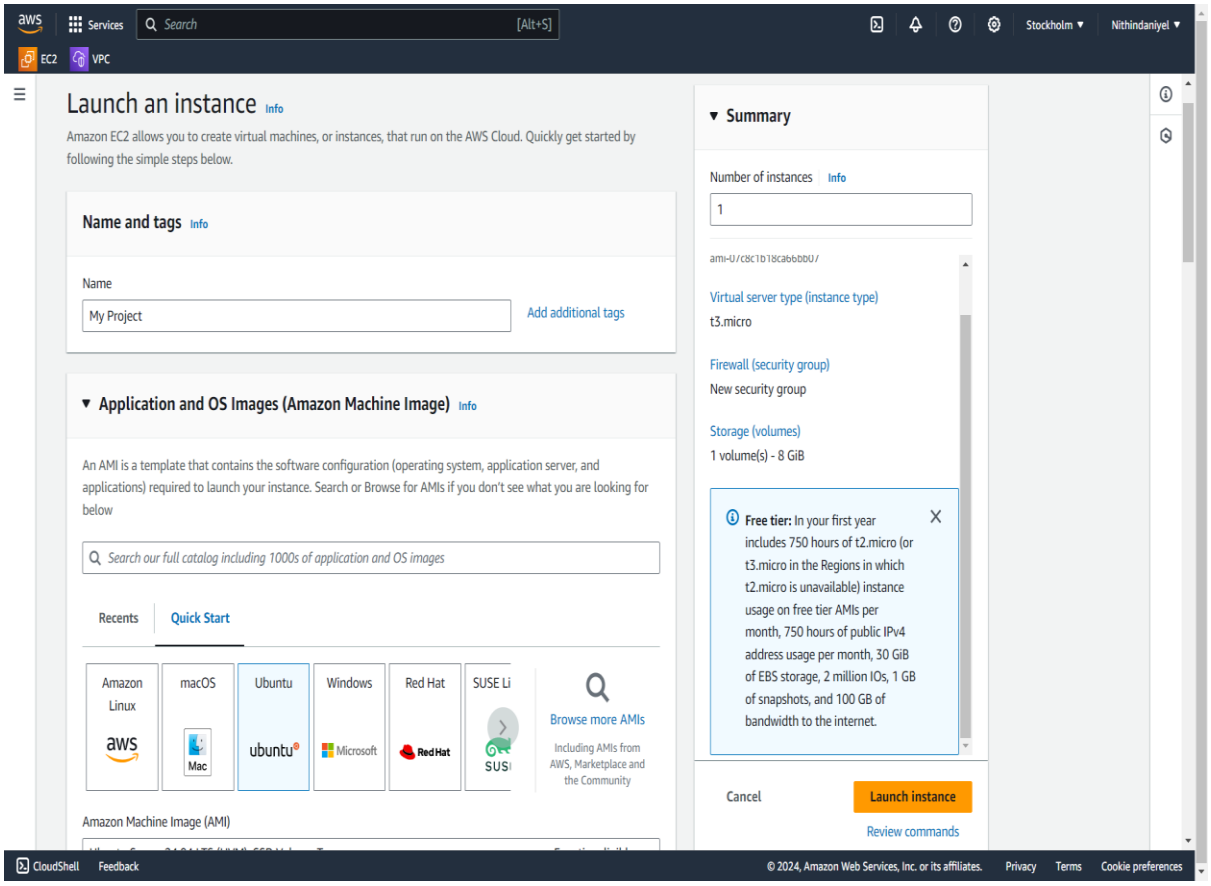
19-08-2024


Launch an instance
Summary
Name and tags
Application and OS Images (Amazon Machine Image)
Instance type
Launch instance


Launch an instance
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags
My Project
Add additional tags
Application and OS Images (Amazon Machine Image)
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 AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
Recents
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Summary
Number of instances
1
Virtual server type (instance type)
t3.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 usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Review commands
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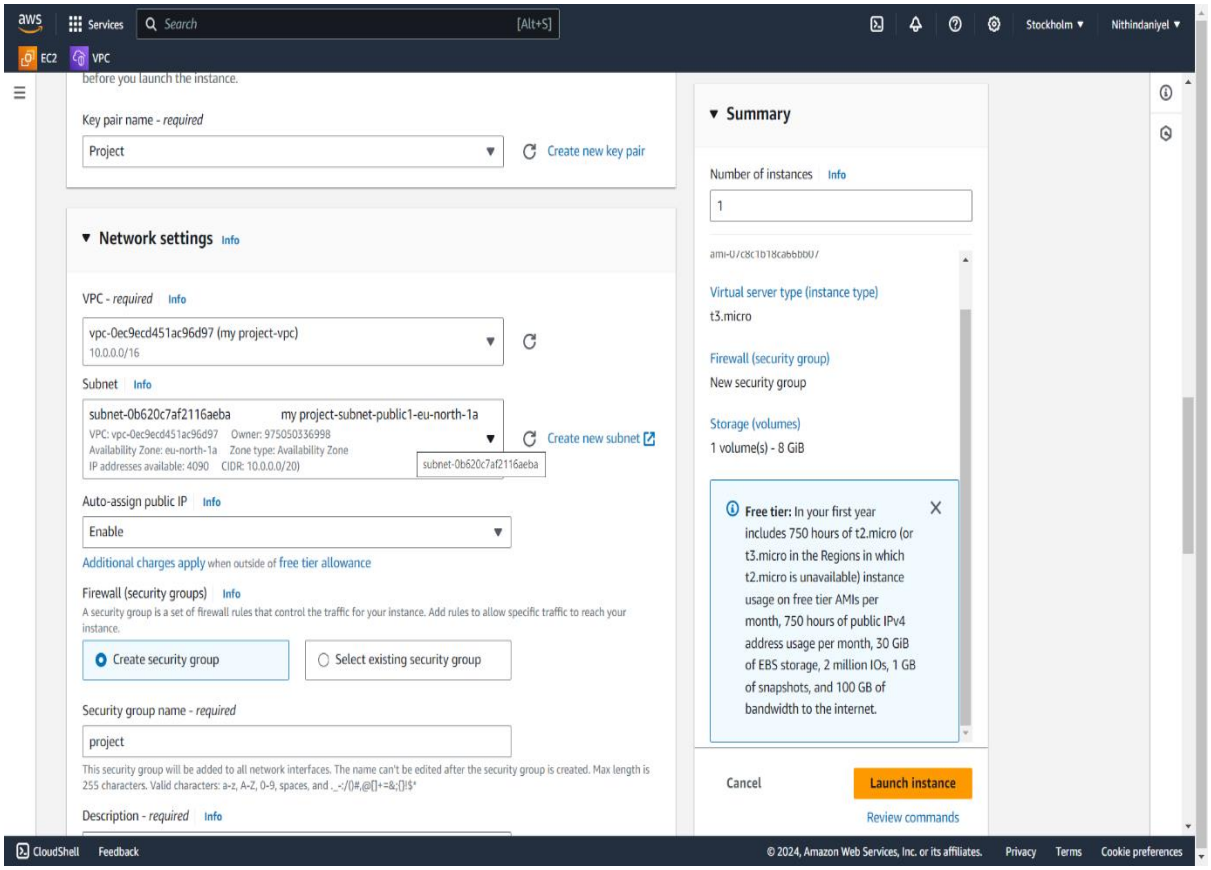
Services
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EC2
VPC
before you launch the instance.
Key pair name - required
Project
Create new key pair
Network settings Info
VPC - required Info
vpc-0ec9ecd451ac96d97 (my project-vpc)
10.0.0.0/16
Subnet Info
subnet-0b620c7af2116aeba my project-subnet-public1-eu-north-1a
VPC: vpc-0ec9ecd451ac96d97 Owner: 975050336998
Availability Zone: eu-north-1a Zone type: Availability Zone
IP addresses available: 4090 CIDR: 10.0.0.0/20)
Create new subnet
subnet-0b620c7af2116aeba
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
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.
Create security group
Select existing security group
Security group name - required
project
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*
Description - required Info
Summary
Number of instances Info
1
ami-0/c8c1b18ca6bbb0/
Virtual server type (instance type)
t3.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Review commands
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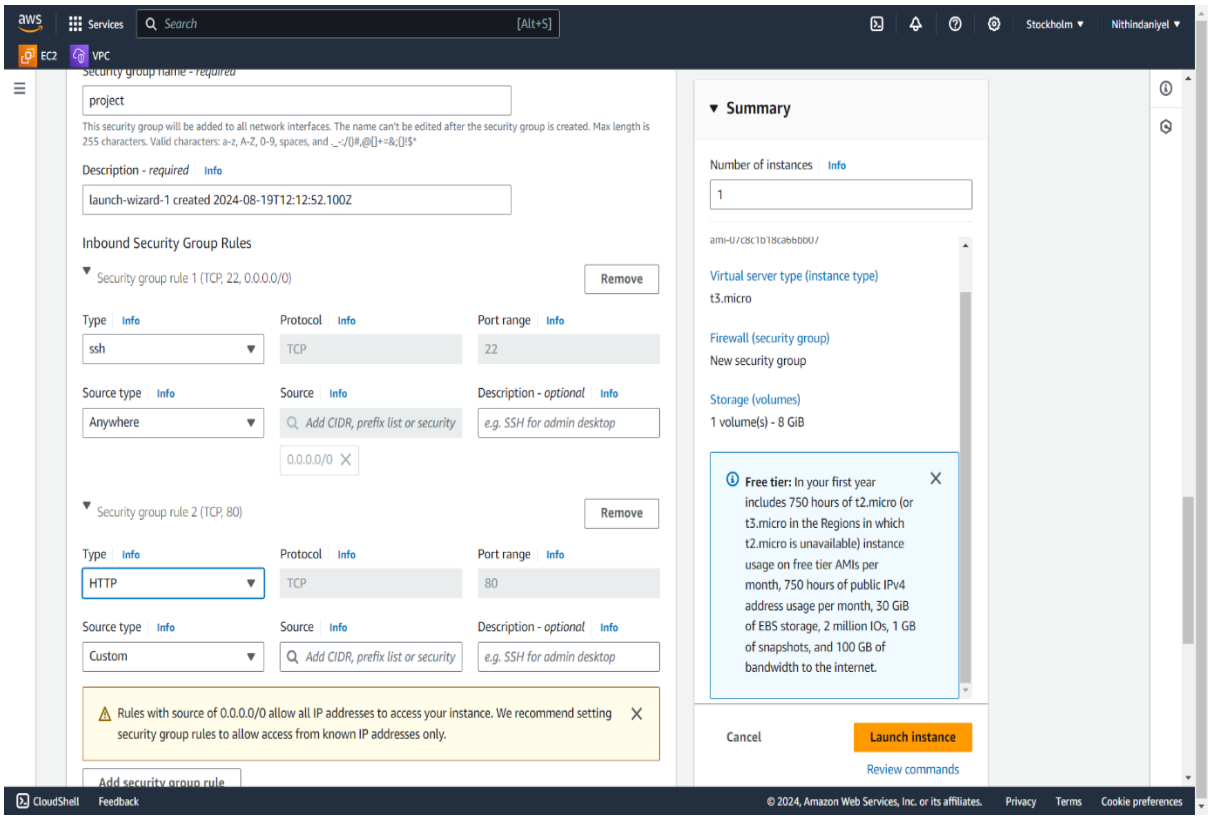
Services
Search
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EC2
VPC
project
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*
Description - required Info
launch-wizard-1 created 2024-08-19T12:12:52.100Z
Inbound Security Group Rules
Security group rule 1 (TCP, 22, 0.0.0.0/0)
Remove
Type Info
ssh
Protocol Info
TCP
Port range Info
22
Source type Info
Anywhere
Source Info
Add CIDR, prefix list or security
0.0.0.0/0
Description - optional Info
e.g. SSH for admin desktop
Security group rule 2 (TCP, 80)
Remove
Type Info
HTTP
Protocol Info
TCP
Port range Info
80
Source type Info
Custom
Source Info
Add CIDR, prefix list or security
Description - optional Info
e.g. SSH for admin desktop
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Add security group rule
Summary
Number of instances Info
1
ami-0/c8c1b18ca6bbb0/
Virtual server type (instance type)
t3.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 usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Review commands
CloudShell
Feedback
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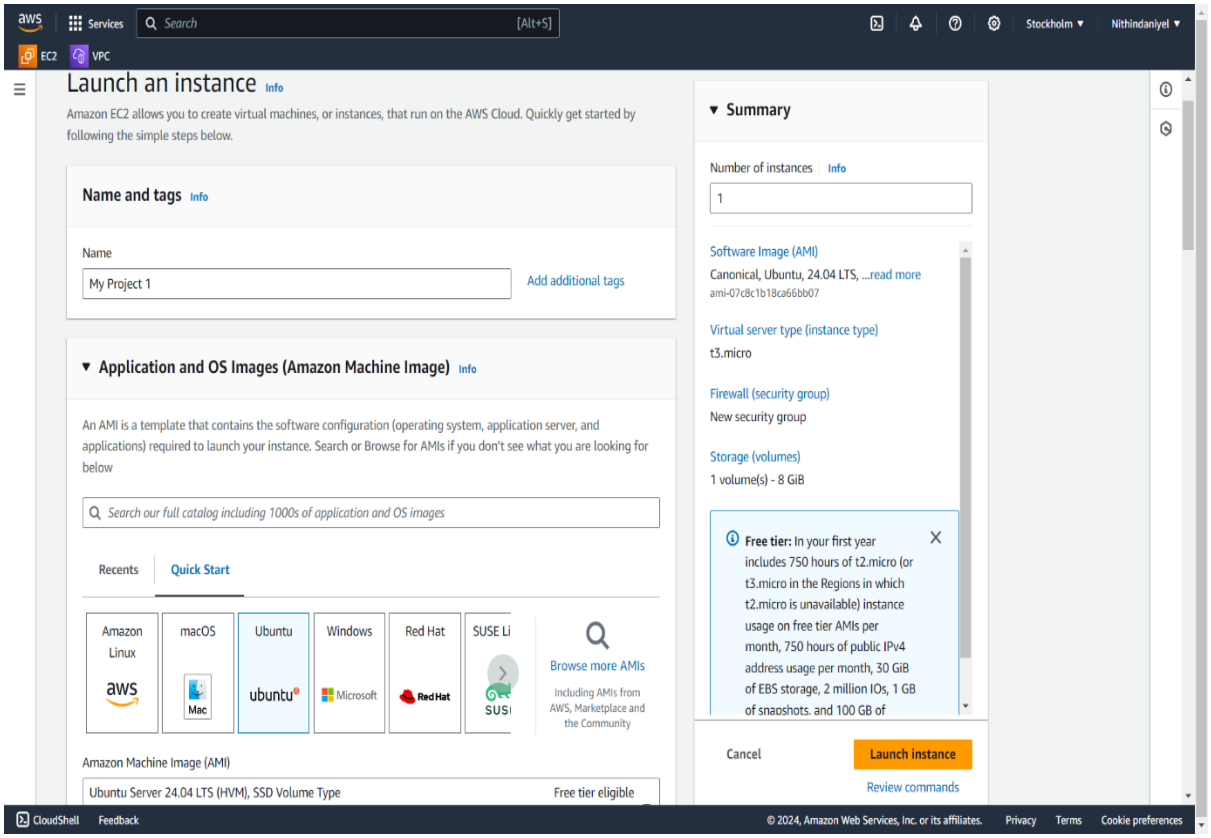
Services
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EC2
VPC
Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
My Project 1
Add additional tags
Application 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 AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
Recents
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Li
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Ubuntu Server 24.04 LTS (HVM), SSD Volume Type
Free tier eligible
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-07c8c1b18ca66bb07
Virtual server type (instance type)
t3.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 usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of
Cancel
Launch instance
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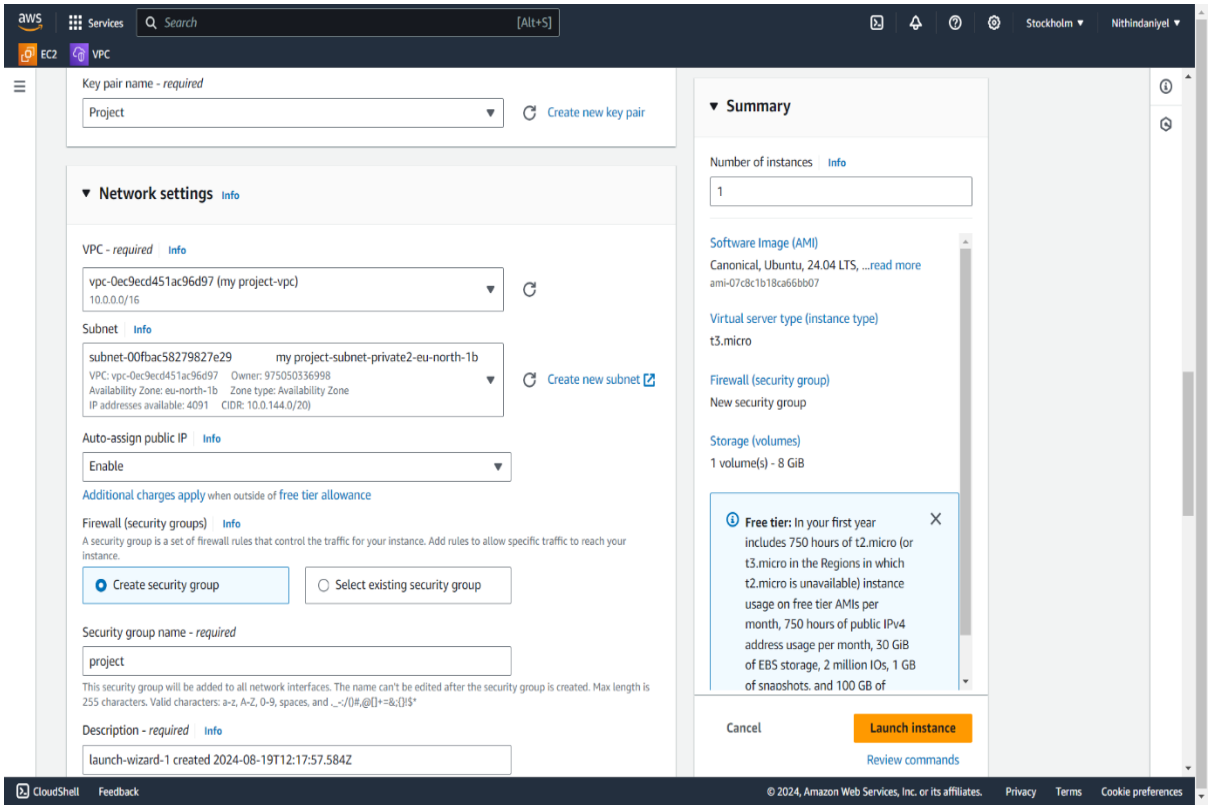
Services
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EC2
VPC
Key pair name - required
Project
Create new key pair
Network settings Info
VPC - required Info
vpc-0ec9ecd451ac96d97 (my project-vpc)
10.0.0.0/16
Subnet Info
subnet-00fbac58279827e29 my project-subnet-private2-eu-north-1b
VPC: vpc-0ec9ecd451ac96d97 Owner: 975050336998
Availability Zone: eu-north-1b Zone type: Availability Zone
IP addresses available: 4091 CIDR: 10.0.144.0/20)
Create new subnet
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
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.
Create security group
Select existing security group
Security group name - required
project
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*
Description - required Info
launch-wizard-1 created 2024-08-19T12:17:57.584Z
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-07c8c1b18ca66bb07
Virtual server type (instance type)
t3.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of
Cancel
Launch instance
Review commands
CloudShell
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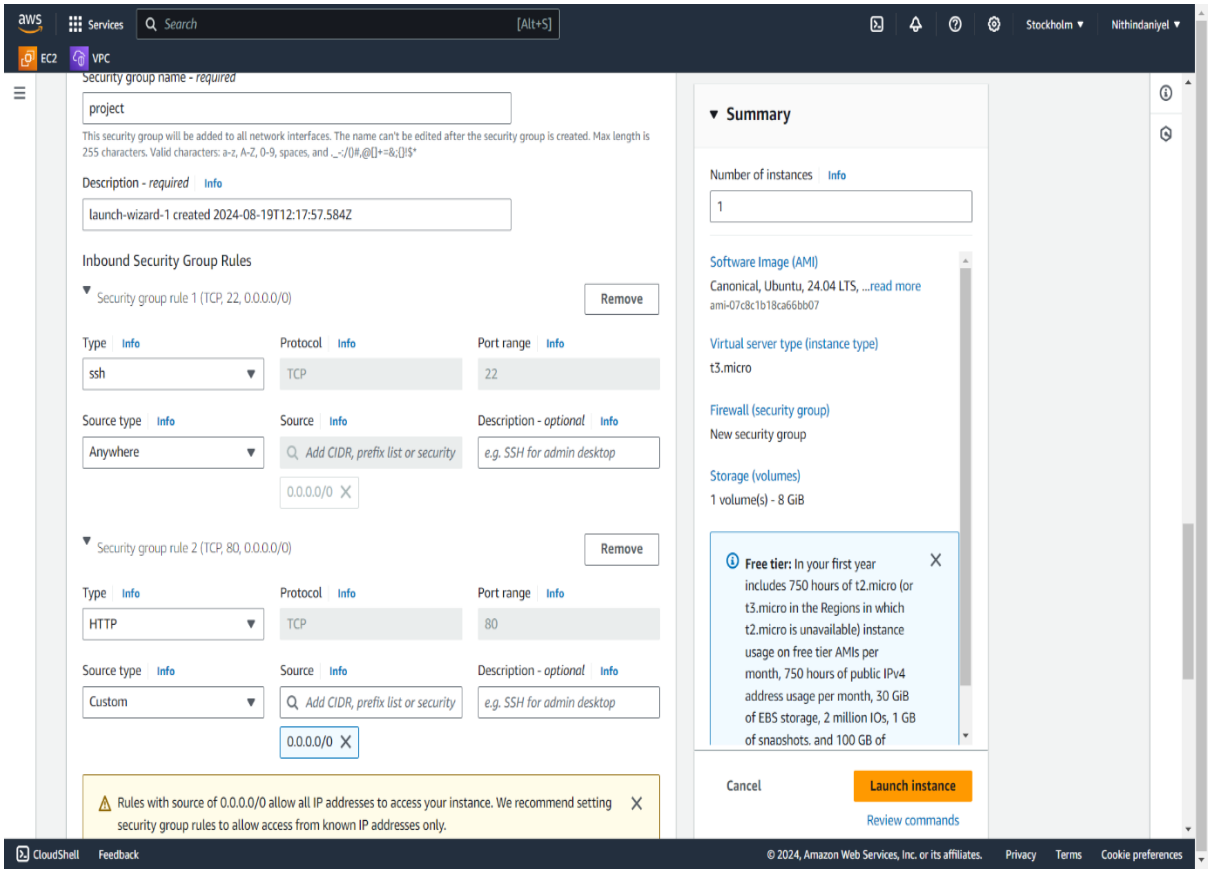
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EC2
VPC
Security group name - required
project
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*
Description - required Info
launch-wizard-1 created 2024-08-19T12:17:57.584Z
Inbound Security Group Rules
Security group rule 1 (TCP, 22, 0.0.0.0/0)
Remove
Type Info
ssh
Protocol Info
TCP
Port range Info
22
Source type Info
Anywhere
Source Info
Add CIDR, prefix list or security
0.0.0.0/0
Description - optional Info
e.g. SSH for admin desktop
Security group rule 2 (TCP, 80, 0.0.0.0/0)
Remove
Type Info
HTTP
Protocol Info
TCP
Port range Info
80
Source type Info
Custom
Source Info
Add CIDR, prefix list or security
0.0.0.0/0
Description - optional Info
e.g. SSH for admin desktop
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-07c8c1b18ca66bb07
Virtual server type (instance type)
t3.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 usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of
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Launch instance
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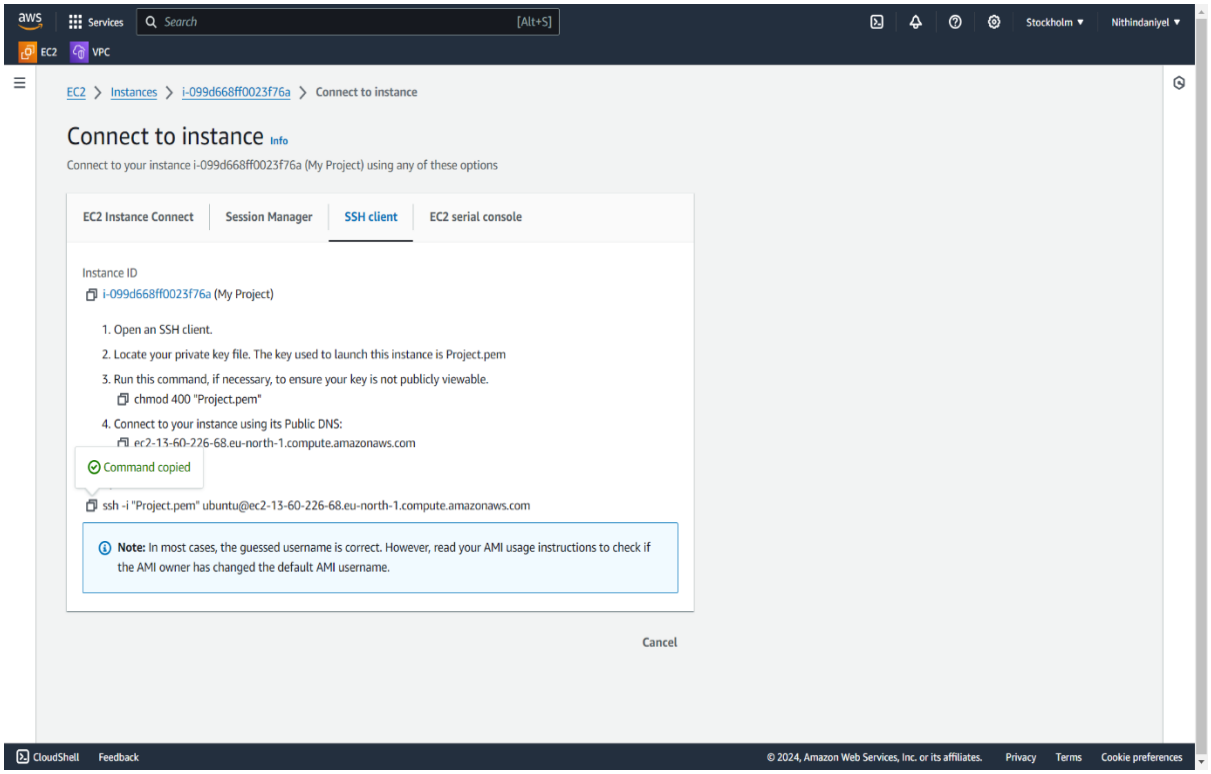
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Services
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EC2
VPC
EC2 > Instances > i-099d668ff0023f76a > Connect to instance
Connect to instance Info
Connect to your instance i-099d668ff0023f76a (My Project) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-099d668ff0023f76a (My Project)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is Project.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 "Project.pem"
4. Connect to your instance using its Public DNS:
ec2-13-60-226-68.eu-north-1.compute.amazonaws.com
Command copied
ssh -i "Project.pem" ubuntu@ec2-13-60-226-68.eu-north-1.compute.amazonaws.com
Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
Cancel
CloudShell
Feedback
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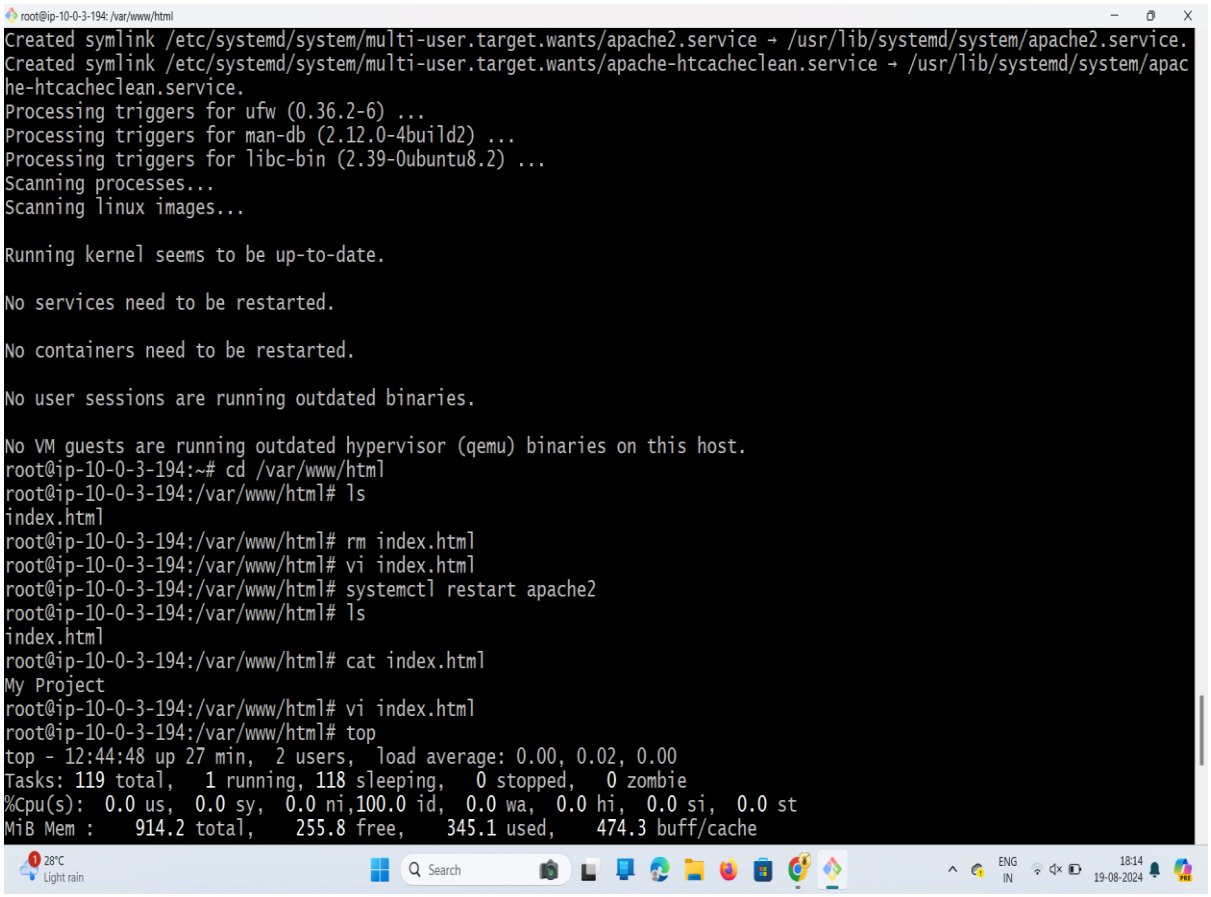
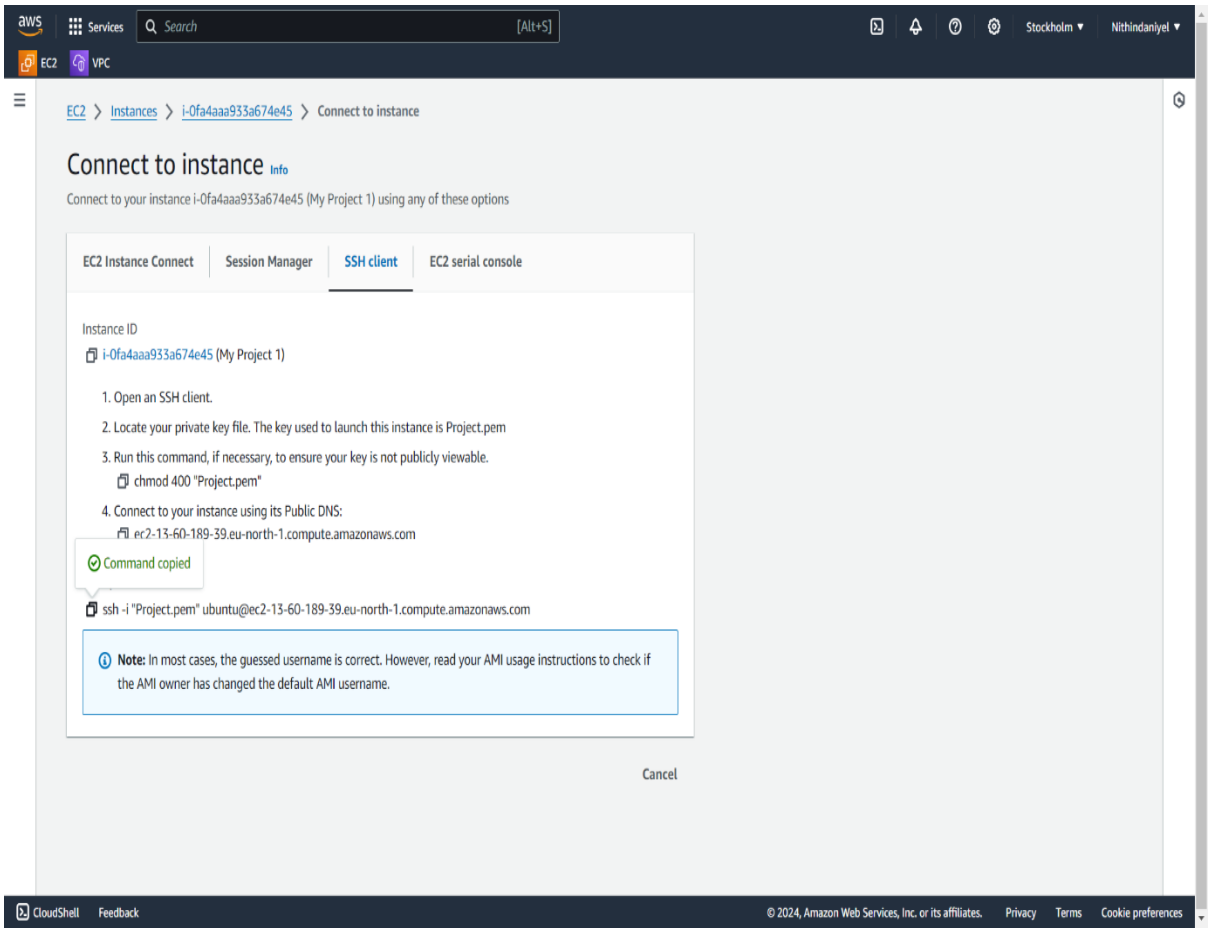

root@ip-10-0-3-194: /var/www/html
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /usr/lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /usr/lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-10-0-3-194:~# cd /var/www/html
root@ip-10-0-3-194:/var/www/html# ls
index.html
root@ip-10-0-3-194:/var/www/html# rm index.html
root@ip-10-0-3-194:/var/www/html# vi index.html
root@ip-10-0-3-194:/var/www/html# systemctl restart apache2
root@ip-10-0-3-194:/var/www/html# ls
index.html
root@ip-10-0-3-194:/var/www/html# cat index.html
My Project
root@ip-10-0-3-194:/var/www/html# vi index.html
root@ip-10-0-3-194:/var/www/html# top
top - 12:44:48 up 27 min, 2 users, load average: 0.00, 0.02, 0.00
Tasks: 119 total,   1 running, 118 sleeping,   0 stopped,   0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem :   914.2 total,   255.8 free,   345.1 used,   474.3 buff/cache
28°C
Light rain
Search
ENG
IN
18:14
19-08-2024


aws
Services
Search
[Alt+S]
Stockholm
Nithindaniyel
EC2
VPC
EC2 > Instances > i-0fa4aaa933a674e45 > Connect to instance
Connect to instance Info
Connect to your instance i-0fa4aaa933a674e45 (My Project 1) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0fa4aaa933a674e45 (My Project 1)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is Project.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 "Project.pem"
4. Connect to your instance using its Public DNS:
ec2-13-60-189-39.eu-north-1.compute.amazonaws.com
Command copied
ssh -i "Project.pem" ubuntu@ec2-13-60-189-39.eu-north-1.compute.amazonaws.com
Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
Cancel
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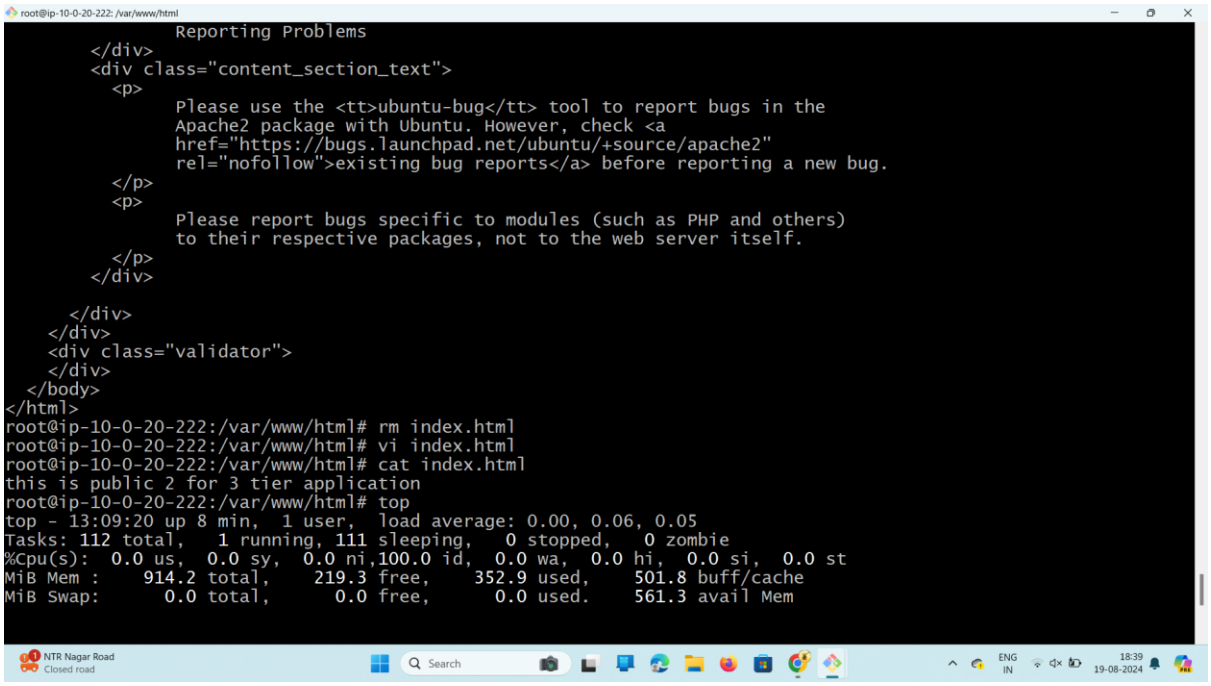
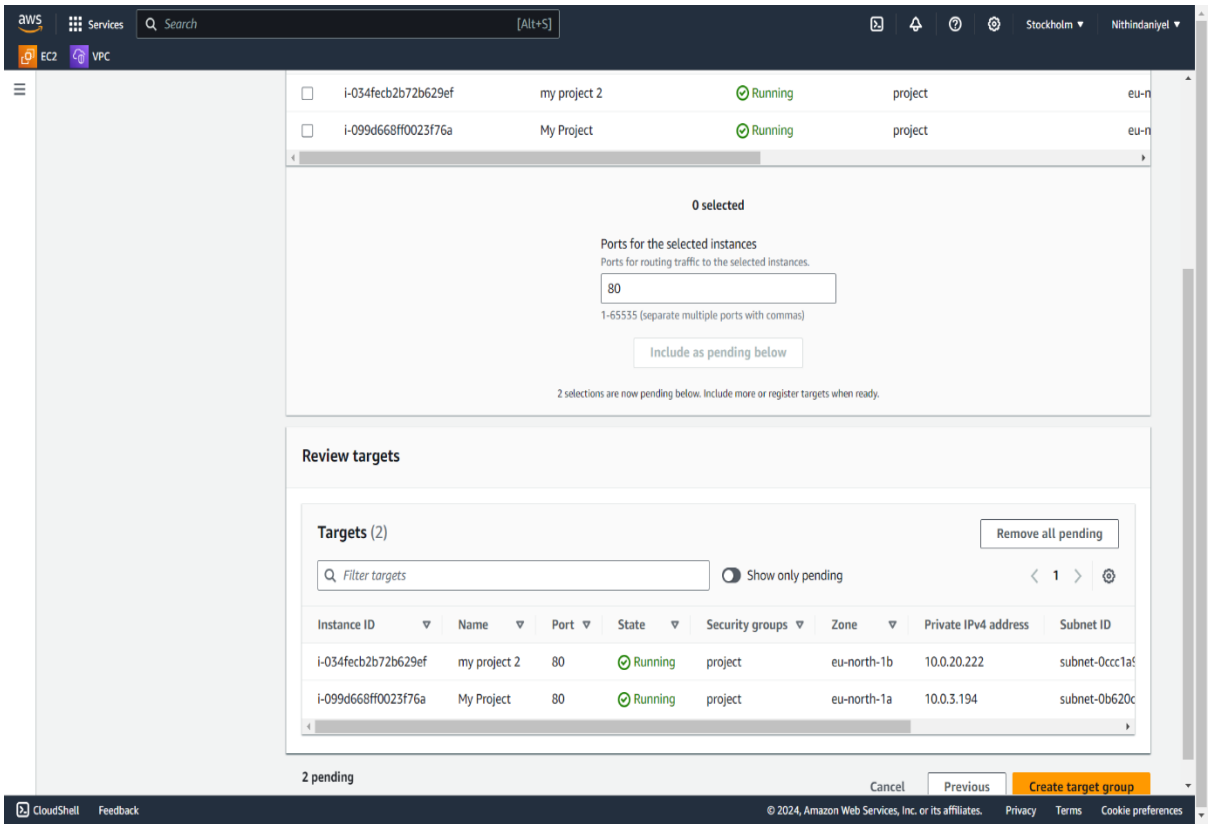

root@ip-10-0-20-222: /var/www/html
Reporting Problems

Please use the <tt>ubuntu-bug</tt> tool to report bugs in the
Apache2 package with Ubuntu. However, check <a
href="https://bugs.launchpad.net/ubuntu/+source/apache2"
rel="nofollow">existing bug reports before reporting a new bug.

Please report bugs specific to modules (such as PHP and others)
to their respective packages, not to the web server itself.

</body>
</html>
root@ip-10-0-20-222:/var/www/html# rm index.html
root@ip-10-0-20-222:/var/www/html# vi index.html
root@ip-10-0-20-222:/var/www/html# cat index.html
this is public 2 for 3 tier application
root@ip-10-0-20-222:/var/www/html# top
top - 13:09:20 up 8 min, 1 user, load average: 0.00, 0.06, 0.05
Tasks: 112 total, 1 running, 111 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 914.2 total, 219.3 free, 352.9 used, 501.8 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used. 561.3 avail Mem
NTR Nagar Road
Closed road
Search
ENG
IN
18:39
19-08-2024


aws
Services
Search
[Alt+S]
Stockholm
Nithindaniyel
EC2
VPC
i-034fecb2b72b629ef
my project 2
Running
project
i-099d668ff0023f76a
My Project
Running
project
0 selected
Ports for the selected instances
Ports for routing traffic to the selected instances.
80
1-65535 (separate multiple ports with commas)
Include as pending below
2 selections are now pending below. Include more or register targets when ready.
Review targets
Targets (2)
Remove all pending
Filter targets
Show only pending
1
Instance ID
Name
Port
State
Security groups
Zone
Private IPv4 address
Subnet ID
i-034fecb2b72b629ef
my project 2
80
Running
project
eu-north-1b
10.0.20.222
i-099d668ff0023f76a
My Project
80
Running
project
eu-north-1a
10.0.3.194
2 pending
Cancel
Previous
Create target group
CloudShell
Feedback
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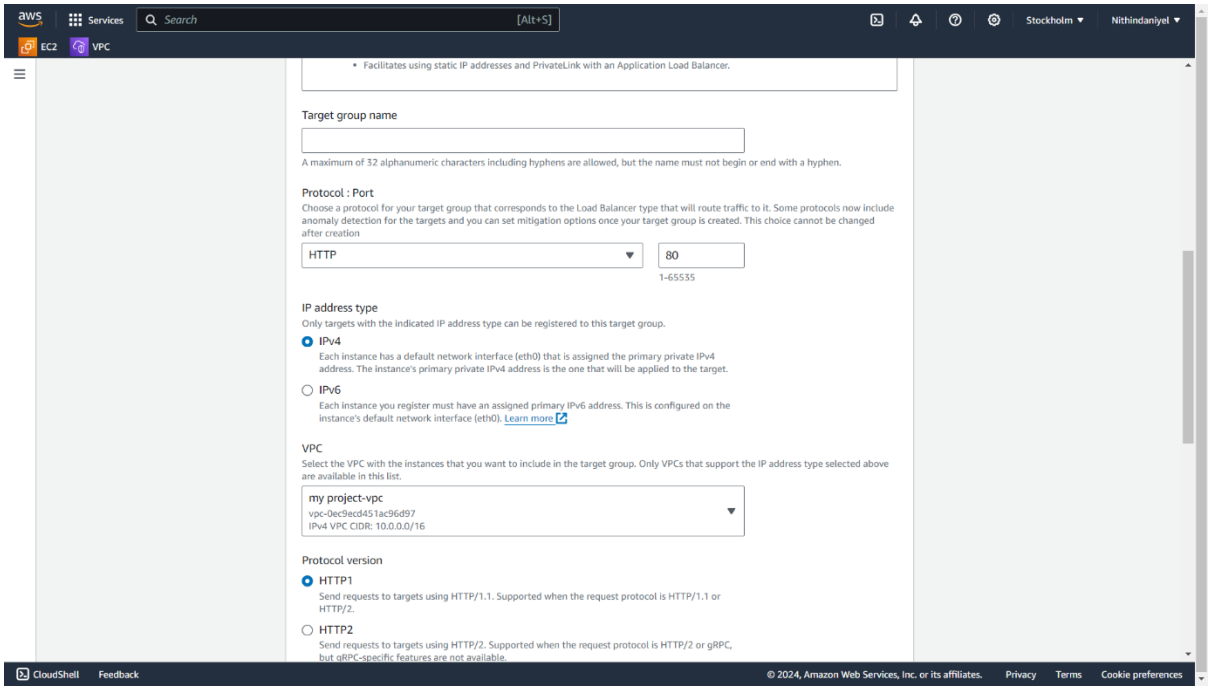
aws
Services
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EC2
VPC
• Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.
Target group name
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.
Protocol : Port
Choose a protocol for your target group that corresponds to the Load Balancer type that will route traffic to it. Some protocols now include anomaly detection for the targets and you can set mitigation options once your target group is created. This choice cannot be changed after creation
HTTP
80
1-65535
IP address type
Only targets with the indicated IP address type can be registered to this target group.
IPv4
Each instance has a default network interface (eth0) that is assigned the primary private IPv4 address. The instance's primary private IPv4 address is the one that will be applied to the target.
IPv6
Each instance you register must have an assigned primary IPv6 address. This is configured on the instance's default network interface (eth0). Learn more
VPC
Select the VPC with the instances that you want to include in the target group. Only VPCs that support the IP address type selected above are available in this list.
my project-vpc
vpc-0ec9ecd451ac96d97
IPv4 VPC CIDR: 10.0.0.0/16
Protocol version
HTTP1
Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.
HTTP2
Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.
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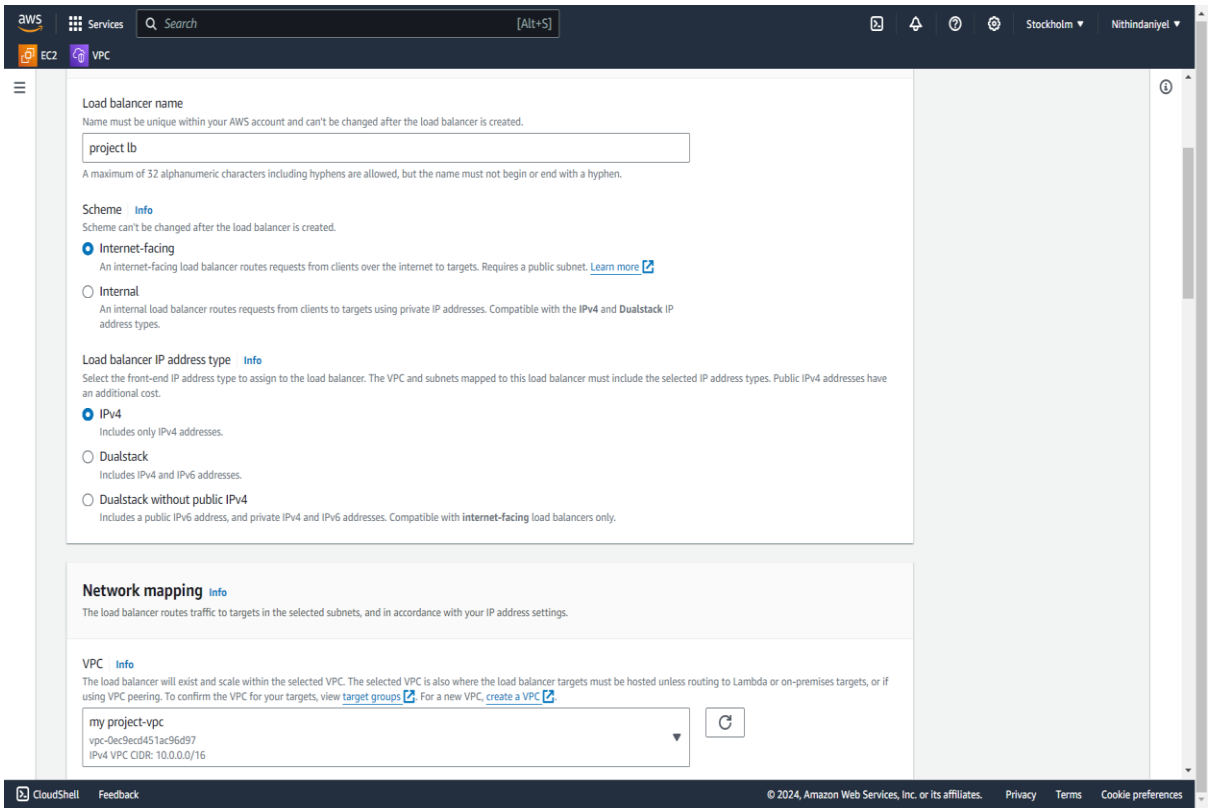
aws
Services
Search
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Stockholm
Nithindaniyel
EC2
VPC
Load balancer name
Name must be unique within your AWS account and can't be changed after the load balancer is created.
project lb
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.
Scheme Info
Scheme can't be changed after the load balancer is created.
Internet-facing
An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. Learn more
Internal
An internal load balancer routes requests from clients to targets using private IP addresses. Compatible with the IPv4 and Dualstack IP address types.
Load balancer IP address type Info
Select the front-end IP address type to assign to the load balancer. The VPC and subnets mapped to this load balancer must include the selected IP address types. Public IPv4 addresses have an additional cost.
IPv4
Includes only IPv4 addresses.
Dualstack
Includes IPv4 and IPv6 addresses.
Dualstack without public IPv4
Includes a public IPv6 address, and private IPv4 and IPv6 addresses. Compatible with internet-facing load balancers only.
Network mapping Info
The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.
VPC Info
The load balancer will exist and scale within the selected VPC. The selected VPC is also where the load balancer targets must be hosted unless routing to Lambda or on-premises targets, or if using VPC peering. To confirm the VPC for your targets, view target groups. For a new VPC, create a VPC.
my project-vpc
vpc-0ec9ecd451ac96d97
IPv4 VPC CIDR: 10.0.0.0/16
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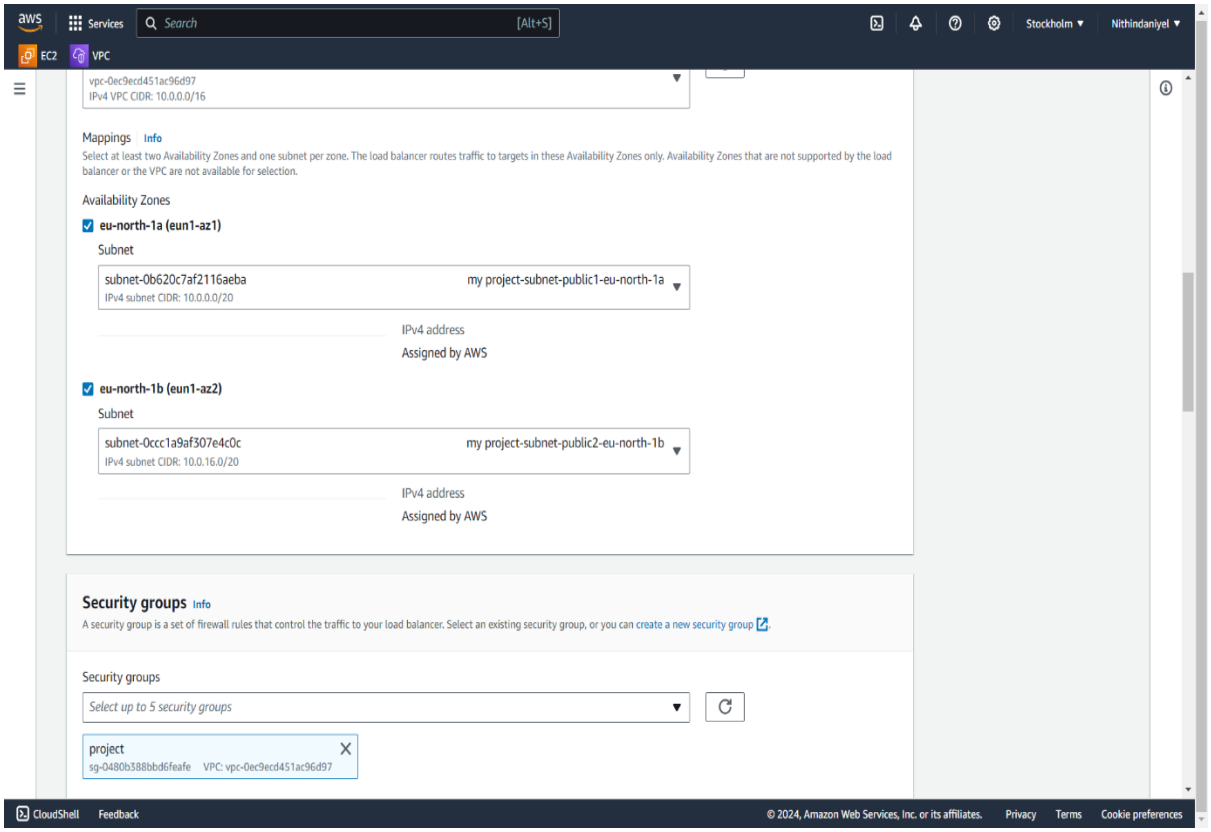
Services
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EC2
VPC
vpc-0ec9ecd451ac96d97
IPv4 VPC CIDR: 10.0.0.0/16
Mappings Info
Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.
Availability Zones
eu-north-1a (eun1-az1)
Subnet
subnet-0b620c7af2116aeba
my project-subnet-public1-eu-north-1a
IPv4 subnet CIDR: 10.0.0.0/20
IPv4 address
Assigned by AWS
eu-north-1b (eun1-az2)
Subnet
subnet-0ccc1a9af307e4c0c
my project-subnet-public2-eu-north-1b
IPv4 subnet CIDR: 10.0.16.0/20
IPv4 address
Assigned by AWS
Security groups Info
A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can create a new security group.
Security groups
Select up to 5 security groups
project
sg-0480b388bbd6feafe VPC: vpc-0ec9ecd451ac96d97
CloudShell
Feedback
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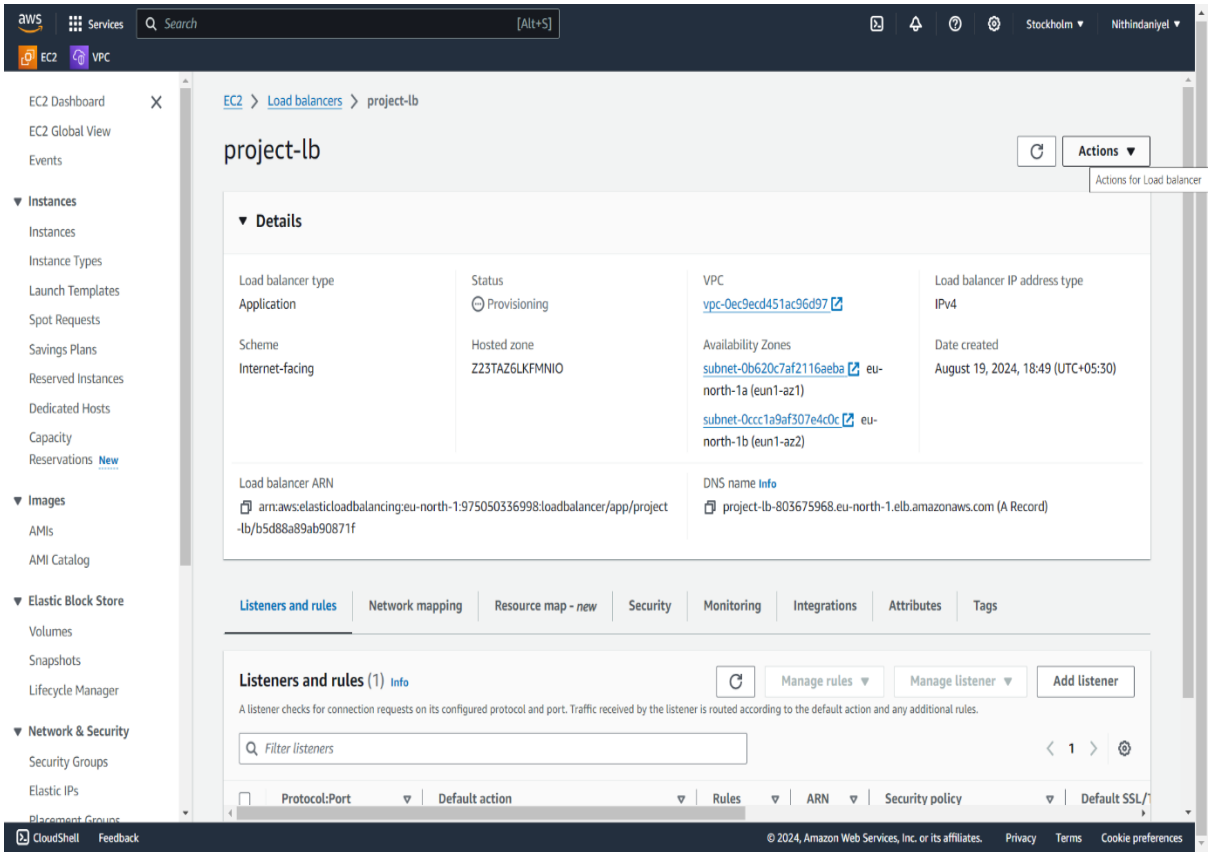
Cookie preferences


Services
Search
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Stockholm
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EC2
VPC
EC2 Dashboard
EC2 Global View
Events
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
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
EC2 > Load balancers > project-lb
project-lb
Actions
Actions for Load balancer
Details
Load balancer type
Application
Status
Provisioning
VPC
vpc-0ec9ecd451ac96d97
Load balancer IP address type
IPv4
Scheme
Internet-facing
Hosted zone
Z23TAZ6LKFMNIO
Availability Zones
subnet-0b620c7af2116aeba eu-north-1a (eun1-az1)
subnet-0ccc1a9af307e4c0c eu-north-1b (eun1-az2)
Date created
August 19, 2024, 18:49 (UTC+05:30)
Load balancer ARN
arn:aws:elasticloadbalancing:eu-north-1:975050336998:loadbalancer/app/project-lb/b5d88a89ab90871f
DNS name Info
project-lb-803675968.eu-north-1.elb.amazonaws.com (A Record)
Listeners and rules
Network mapping
Resource map - new
Security
Monitoring
Integrations
Attributes
Tags
Listeners and rules (1) Info
Manage rules
Manage listener
Add listener
A listener checks for connection requests on its configured protocol and port. Traffic received by the listener is routed according to the default action and any additional rules.
Filter listeners
Protocol:Port
Default action
Rules
ARN
Security policy
CloudShell
Feedback
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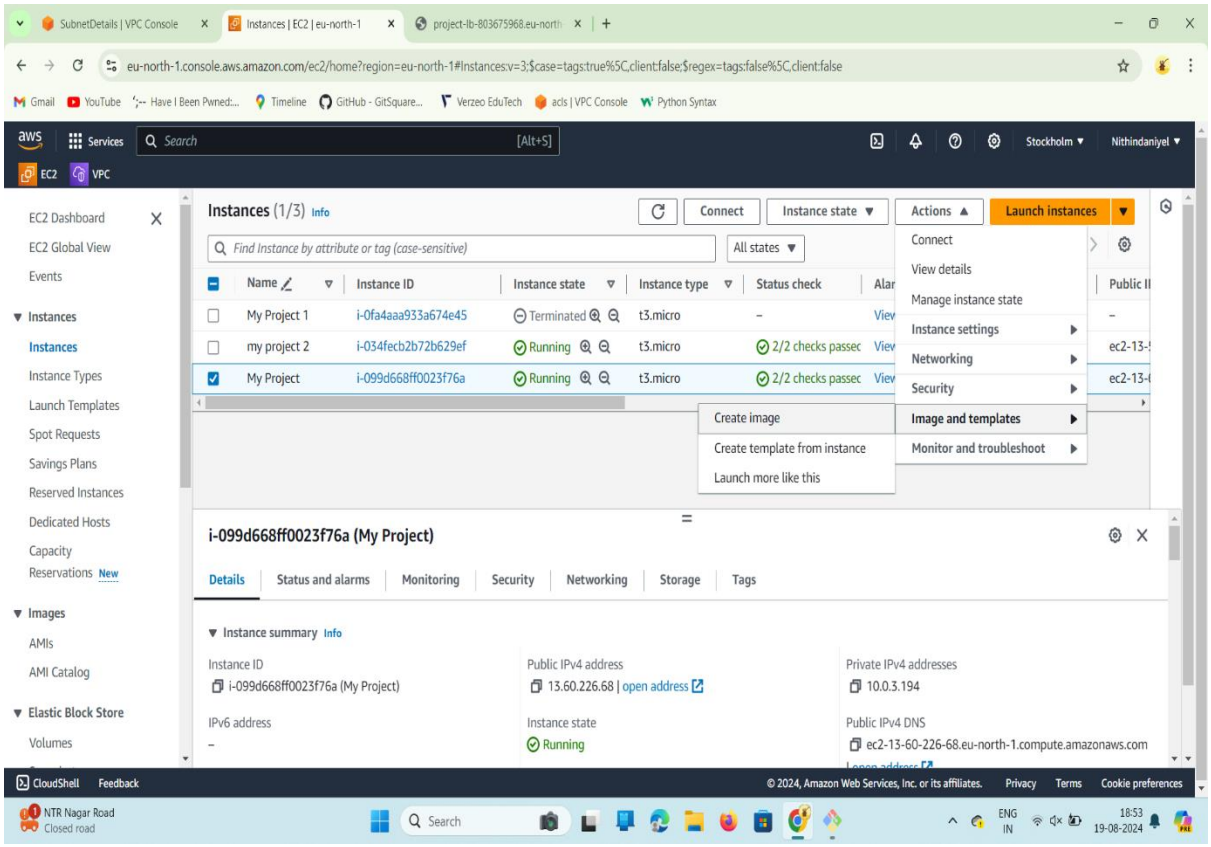
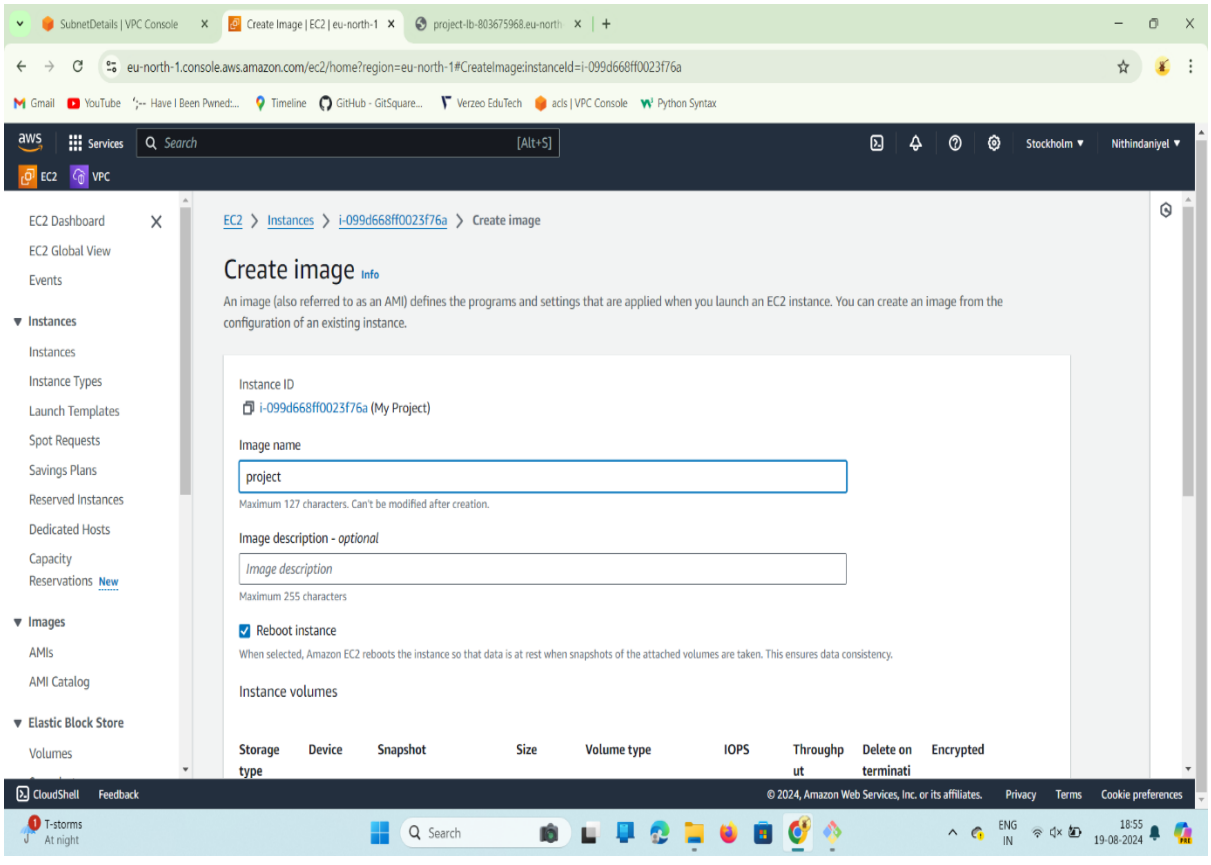
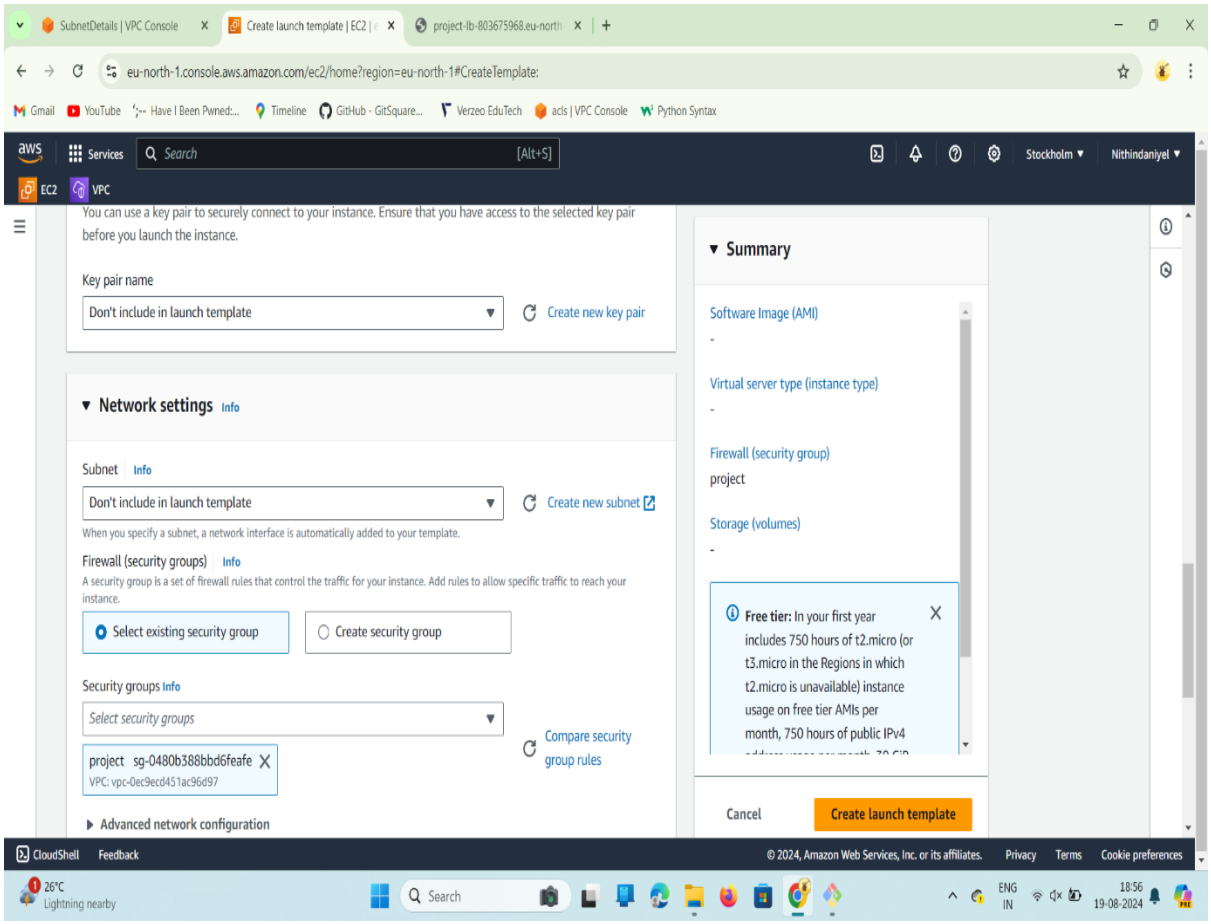
this is public 2 for 3 tier application

My Project foe 3 tier application


Instances (1/3) Info
Connect
Instance state
Actions
Launch instances
Create image
Create template from instance
Launch more like this
Image and templates
Monitor and troubleshoot
i-099d668ff0023f76a (My Project)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info


EC2 > Instances > i-099d668ff0023f76a > Create image
Create image Info
An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.
Instance ID
i-099d668ff0023f76a (My Project)
Image name
project
Maximum 127 characters. Can't be modified after creation.
Image description - optional
Image description
Maximum 255 characters
Reboot instance
When selected, Amazon EC2 reboots the instance so that data is at rest when snapshots of the attached volumes are taken. This ensures data consistency.
Instance volumes


SubnetDetails | VPC Console
Create launch template | EC2
project-lb-803675968.eu-north
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateTemplate:
Gmail
YouTube
Have I Been Pwned:...
Timeline
GitHub - GitSquare...
Verzeo EduTech
acls | VPC Console
Python Syntax
aws
Services
Search
[Alt+S]
Stockholm
Nithindaniyel
EC2
VPC
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
Don't include in launch template
Create new key pair
Network settings Info
Subnet Info
Don't include in launch template
Create new subnet
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 instance.
Select existing security group
Create security group
Security groups Info
Select security groups
project sg-0480b388bbd6feafe
VPC: vpc-0ec9ecd451ac96d97
Compare security group rules
Advanced network configuration
Summary
Software Image (AMI)
-
Virtual server type (instance type)
-
Firewall (security group)
project
Storage (volumes)
-
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 AMIs per month, 750 hours of public IPv4
Cancel
Create launch template
CloudShell
Feedback
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Privacy
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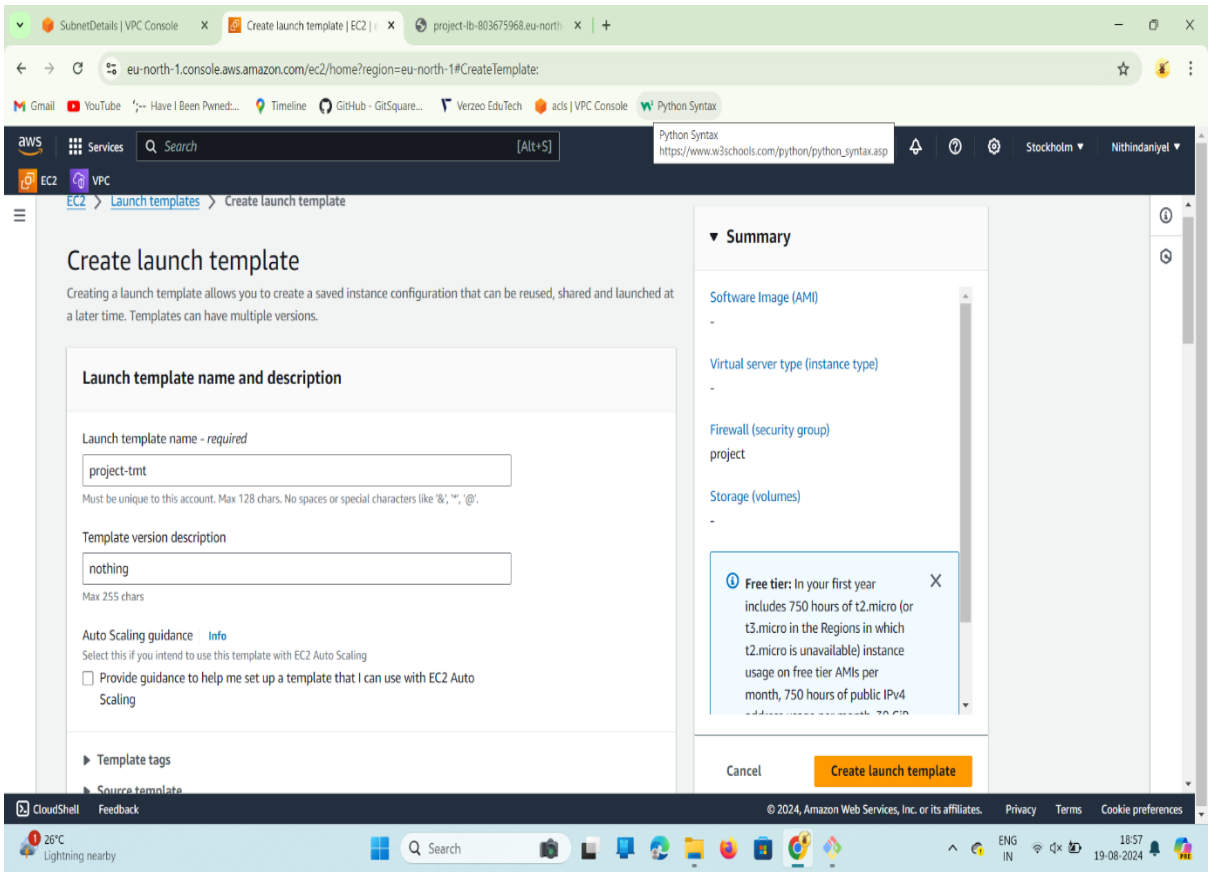
Cookie preferences
26°C
Lightning nearby
Search
ENG
IN
18:56
19-08-2024


SubnetDetails | VPC Console
Create launch template | EC2
project-lb-803675968.eu-north
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateTemplate:
Gmail
YouTube
Have I Been Pwned:...
Timeline
GitHub - GitSquare...
Verzeo EduTech
acls | VPC Console
Python Syntax
Python Syntax
https://www.w3schools.com/python/python_syntax.asp
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EC2
VPC
EC2 > Launch templates > Create launch template
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
project-tmt
Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.
Template version description
nothing
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
Summary
Software Image (AMI)
-
Virtual server type (instance type)
-
Firewall (security group)
project
Storage (volumes)
-
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 AMIs per month, 750 hours of public IPv4
Cancel
Create launch template
CloudShell
Feedback
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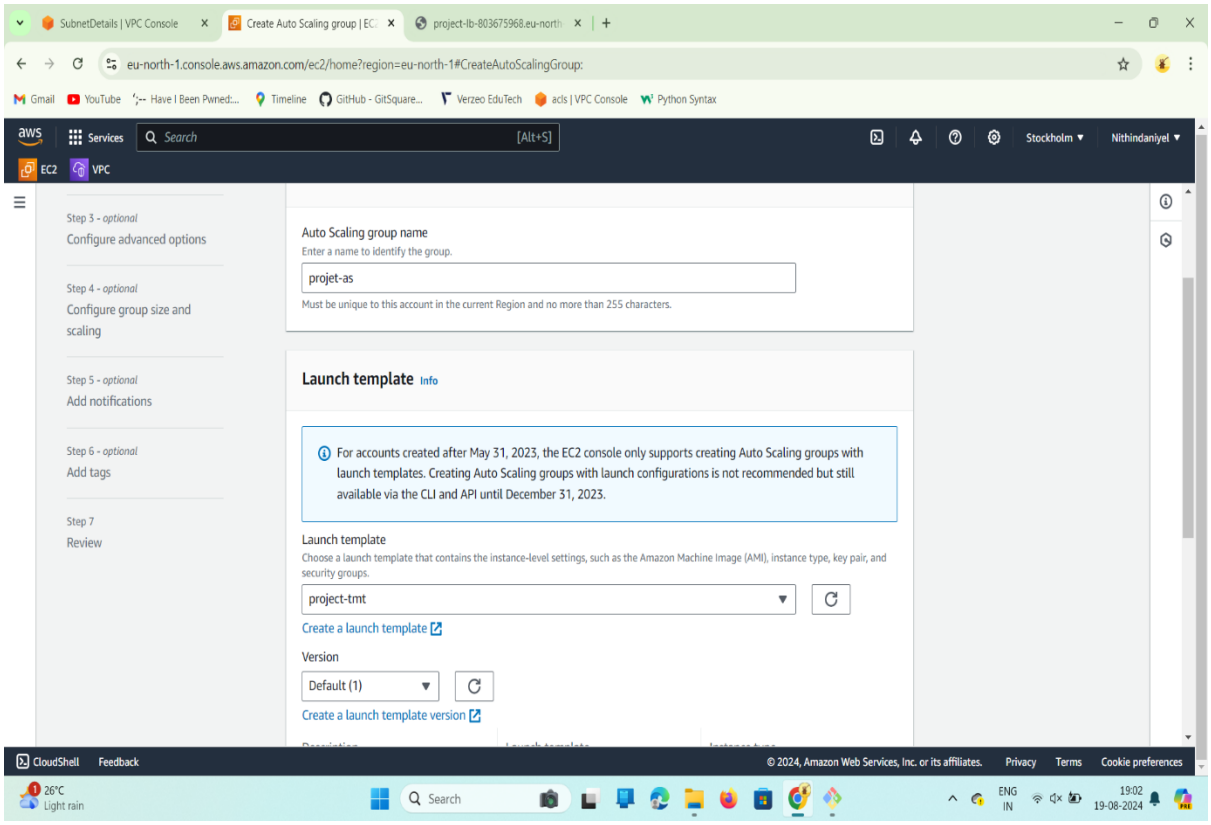
26°C
Lightning nearby
Search
ENG
IN
18:57
19-08-2024


SubnetDetails | VPC Console
Create Auto Scaling group | EC2
project-lb-803675968.eu-north
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateAutoScalingGroup:
Gmail
YouTube
Have I Been Pwned:...
Timeline
GitHub - GitSquare...
Verzeo EduTech
acls | VPC Console
Python Syntax
aws
Services
Search
[Alt+S]
Stockholm
Nithindaniyel
EC2
VPC
Step 3 - optional
Configure advanced options
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Auto Scaling group name
Enter a name to identify the group.
projet-as
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.
project-tmt
Create a launch template
Version
Default (1)
Create a launch template version
CloudShell
Feedback
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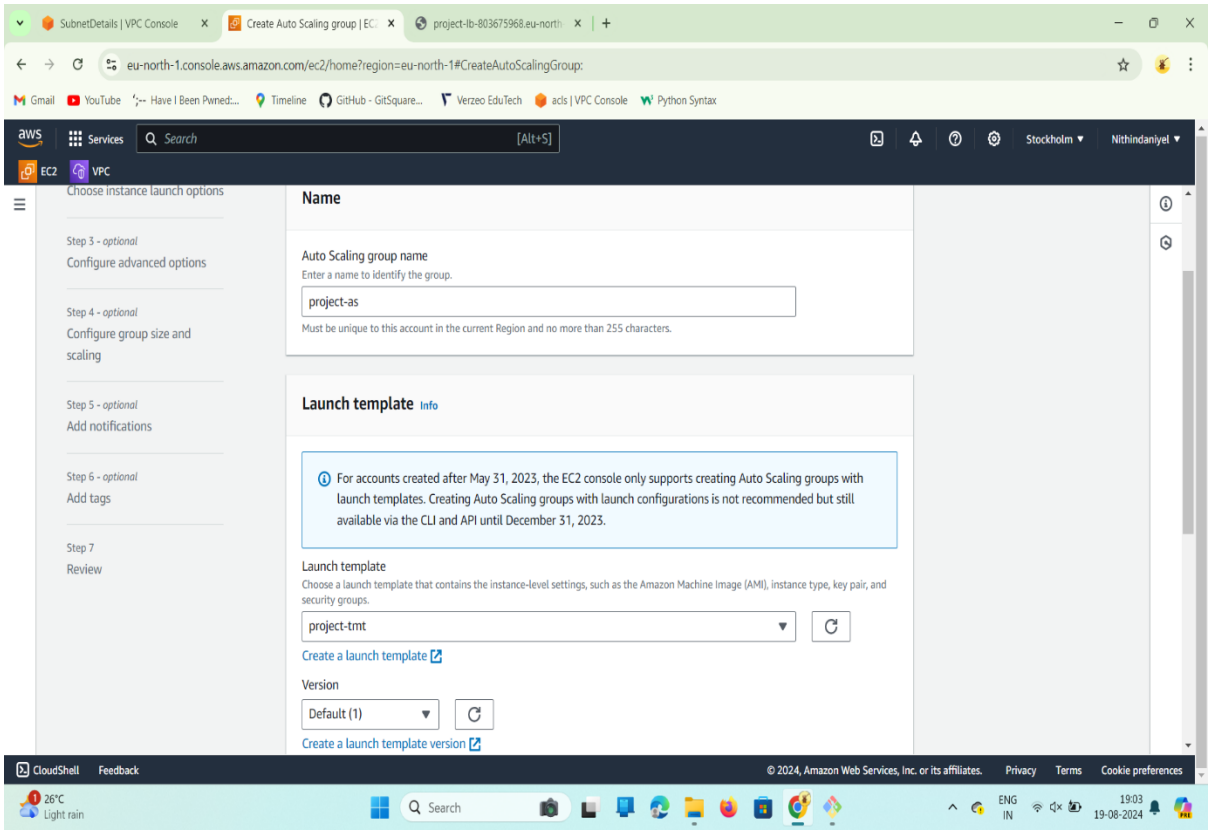
Cookie preferences
26°C
Light rain
Search
ENG
IN
19:02
19-08-2024


SubnetDetails | VPC Console
Create Auto Scaling group | EC2
project-lb-803675968.eu-north
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateAutoScalingGroup:
Gmail
YouTube
Have I Been Pwned:...
Timeline
GitHub - GitSquare...
Verzeo EduTech
acls | VPC Console
Python Syntax
aws
Services
Search
[Alt+S]
Stockholm
Nithindaniyel
EC2
VPC
Choose instance launch options
Step 3 - optional
Configure advanced options
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Name
Auto Scaling group name
Enter a name to identify the group.
project-as
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.
project-tmt
Create a launch template
Version
Default (1)
Create a launch template version
CloudShell
Feedback
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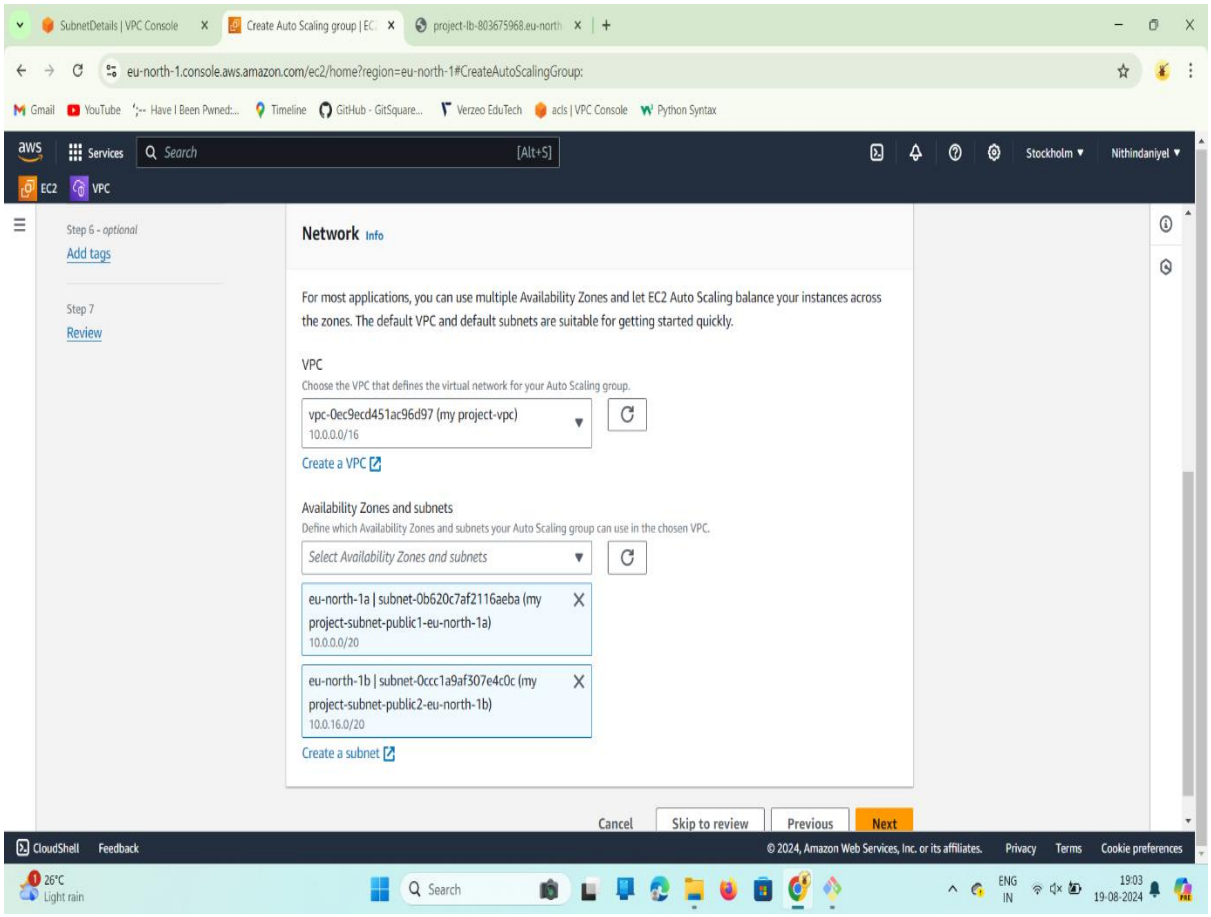
Terms
Cookie preferences
26°C
Light rain
Search
ENG
IN
19:03
19-08-2024


SubnetDetails | VPC Console
Create Auto Scaling group | EC
project-lb-803675968.eu-north
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateAutoScalingGroup:
Gmail
YouTube
Have I Been Pwned:...
Timeline
GitHub - GitSquare...
Verzeo EduTech
acls | VPC Console
Python Syntax
aws
Services
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EC2
VPC
Step 6 - optional
Add tags
Step 7
Review
Network Info
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-0ec9ecd451ac96d97 (my project-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
eu-north-1a | subnet-0b620c7af2116aeba (my project-subnet-public1-eu-north-1a)
10.0.0.0/20
eu-north-1b | subnet-0ccc1a9af307e4c0c (my project-subnet-public2-eu-north-1b)
10.0.16.0/20
Create a subnet
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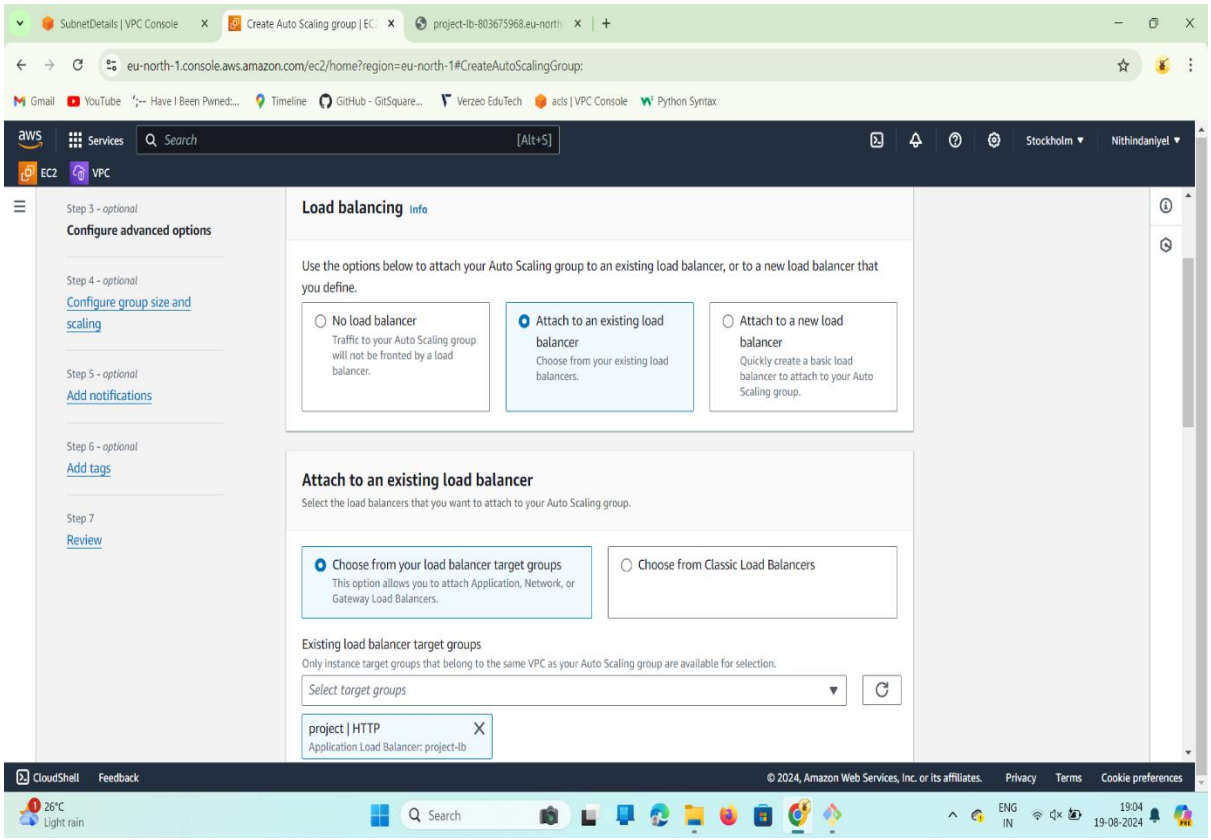
SubnetDetails | VPC Console
Create Auto Scaling group | EC
project-lb-803675968.eu-north
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateAutoScalingGroup:
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EC2
VPC
Step 3 - optional
Configure advanced options
Step 4 - optional
Configure group size and scaling
Step 5 - optional
Add notifications
Step 6 - optional
Add tags
Step 7
Review
Load balancing Info
Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.
No load balancer
Traffic to your Auto Scaling group will not be fronted by a load balancer.
Attach to an existing load balancer
Choose from your existing load balancers.
Attach to a new load balancer
Quickly create a basic load balancer to attach to your Auto Scaling group.
Attach to an existing load balancer
Select the load balancers that you want to attach to your Auto Scaling group.
Choose from your load balancer target groups
This option allows you to attach Application, Network, or Gateway Load Balancers.
Choose from Classic Load Balancers
Existing load balancer target groups
Only instance target groups that belong to the same VPC as your Auto Scaling group are available for selection.
Select target groups
project | HTTP
Application Load Balancer: project-lb
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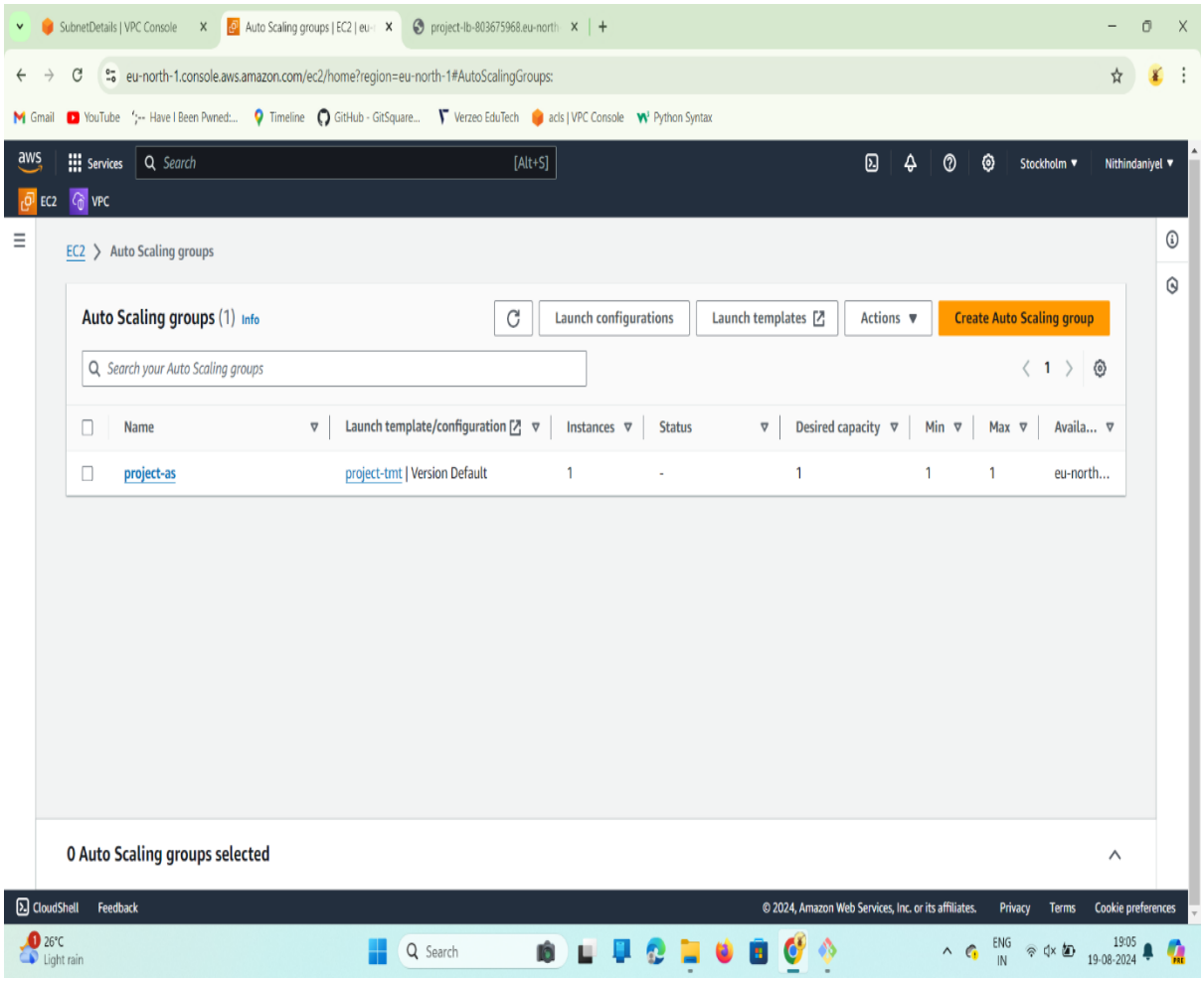
SubnetDetails | VPC Console
Auto Scaling groups | EC2 | eu-
project-lb-803675968.eu-north
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#AutoScalingGroups:
Gmail
YouTube
Have I Been Pwned:...
Timeline
GitHub - GitSquare...
Verzeo EduTech
acls | VPC Console
Python Syntax
aws
Services
Search
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EC2
VPC
EC2 > Auto Scaling groups
Auto Scaling groups (1) Info
Launch configurations
Launch templates
Actions
Create Auto Scaling group
Search your Auto Scaling groups
1
Name
Launch template/configuration
Instances
Status
Desired capacity
Min
Max
Availa...
project-as
project-tmt | Version Default
1
-
1
1
1
eu-north...
0 Auto Scaling groups selected
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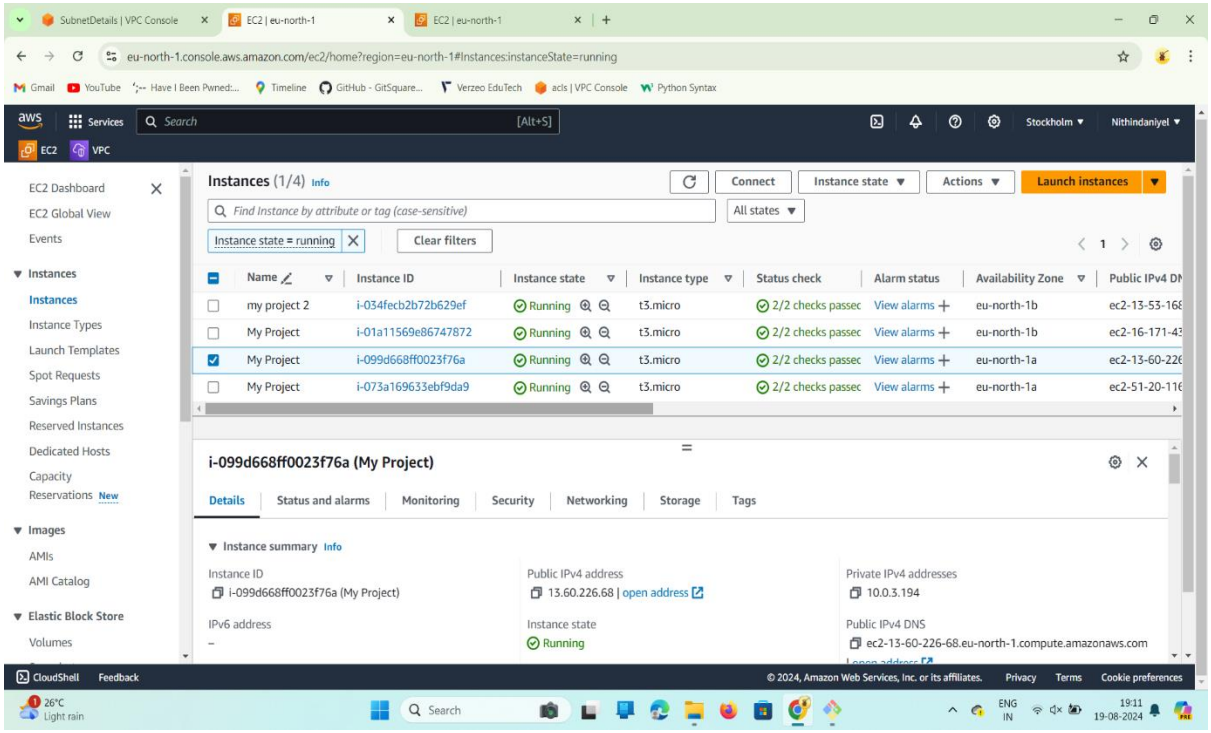
SubnetDetails | VPC Console
EC2 | eu-north-1
EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instances:instanceState=running
Gmail
YouTube
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Timeline
GitHub - GitSquare...
Verzeo EduTech
acls | VPC Console
Python Syntax
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VPC
EC2 Dashboard
EC2 Global View
Events
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
Instances (1/4) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DN
my project 2
i-034fecb2b72b629ef
Running
t3.micro
2/2 checks passec
View alarms
eu-north-1b
ec2-13-53-168
My Project
i-01a11569e86747872
Running
t3.micro
2/2 checks passec
View alarms
eu-north-1b
ec2-16-171-43
My Project
i-099d668ff0023f76a
Running
t3.micro
2/2 checks passec
View alarms
eu-north-1a
ec2-13-60-226
My Project
i-073a169633ebf9da9
Running
t3.micro
2/2 checks passec
View alarms
eu-north-1a
ec2-51-20-116
i-099d668ff0023f76a (My Project)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-099d668ff0023f76a (My Project)
Public IPv4 address
13.60.226.68 | open address
Private IPv4 addresses
10.0.3.194
IPv6 address
-
Instance state
Running
Public IPv4 DNS
ec2-13-60-226-68.eu-north-1.compute.amazonaws.com
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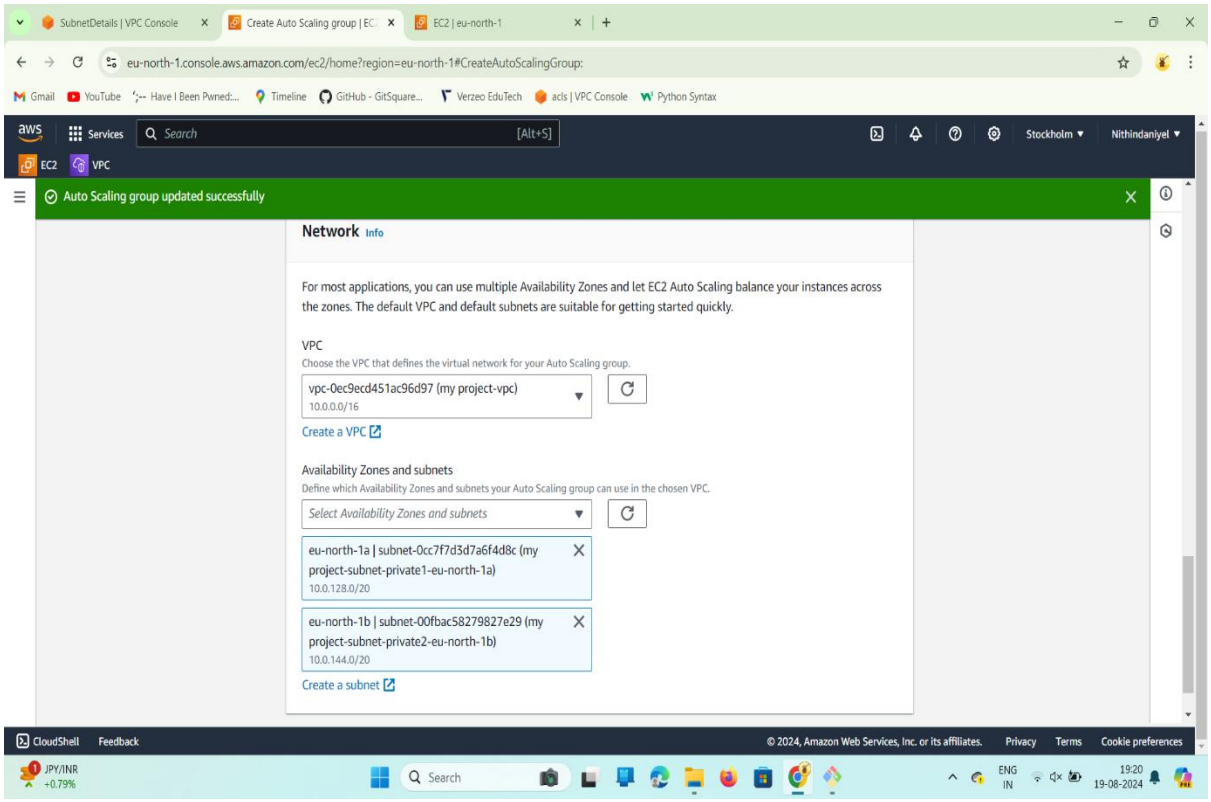
SubnetDetails | VPC Console
Create Auto Scaling group | EC
EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateAutoScalingGroup:
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Python Syntax
Services
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EC2
VPC
Auto Scaling group updated successfully
Network Info
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-0ec9ecd451ac96d97 (my project-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
eu-north-1a | subnet-0cc7f7d3d7a6f4d8c (my project-subnet-private1-eu-north-1a)
10.0.128.0/20
eu-north-1b | subnet-00fbac58279827e29 (my project-subnet-private2-eu-north-1b)
10.0.144.0/20
Create a subnet
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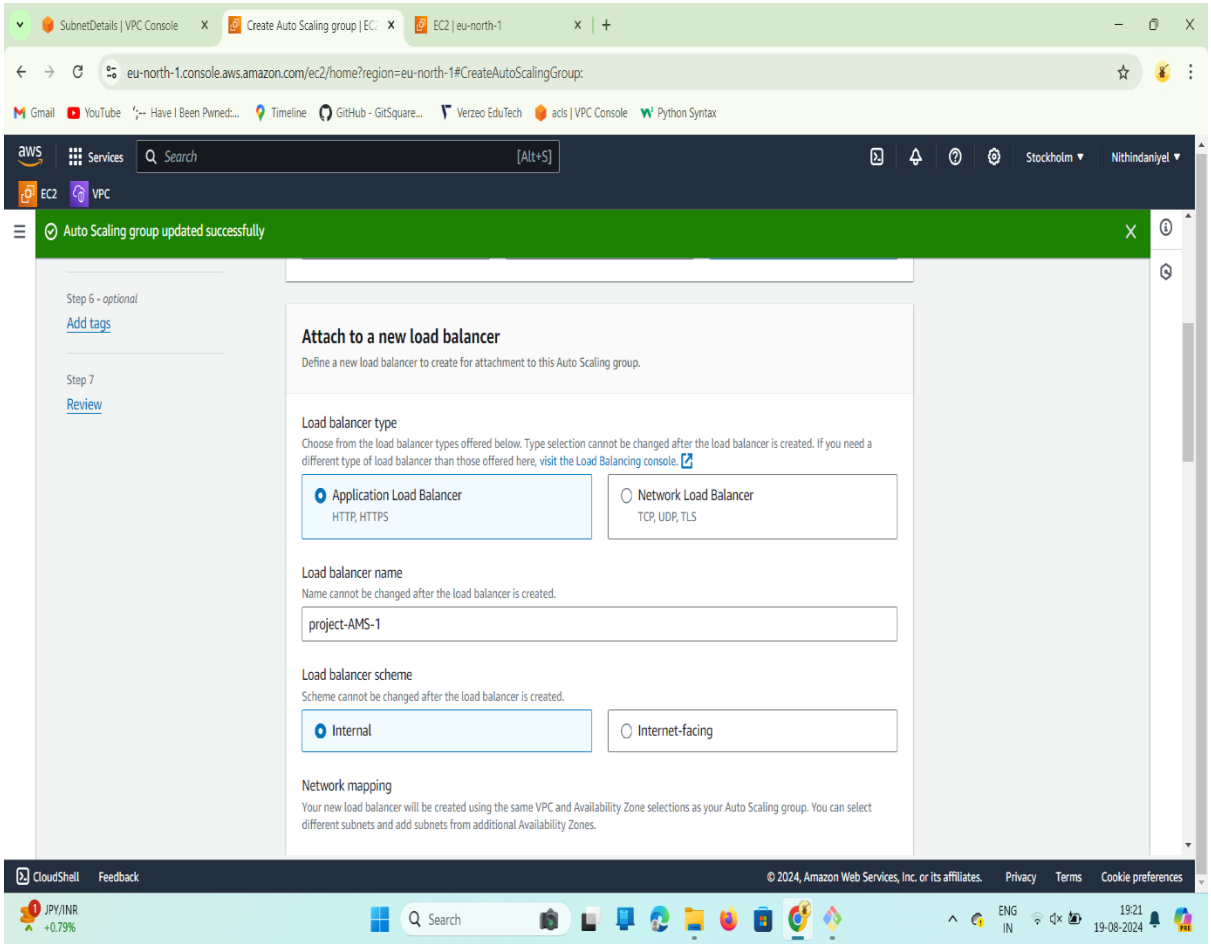
SubnetDetails | VPC Console
Create Auto Scaling group | EC
EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#CreateAutoScalingGroup:
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GitHub - GitSquare...
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EC2
VPC
Auto Scaling group updated successfully
Step 6 - optional
Add tags
Step 7
Review
Attach to a new load balancer
Define a new load balancer to create for attachment to this Auto Scaling group.
Load balancer type
Choose from the load balancer types offered below. Type selection cannot be changed after the load balancer is created. If you need a different type of load balancer than those offered here, visit the Load Balancing console.
Application Load Balancer
HTTP, HTTPS
Network Load Balancer
TCP, UDP, TLS
Load balancer name
Name cannot be changed after the load balancer is created.
project-AMS-1
Load balancer scheme
Scheme cannot be changed after the load balancer is created.
Internal
Internet-facing
Network mapping
Your new load balancer will be created using the same VPC and Availability Zone selections as your Auto Scaling group. You can select different subnets and add subnets from additional Availability Zones.
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+0.79%
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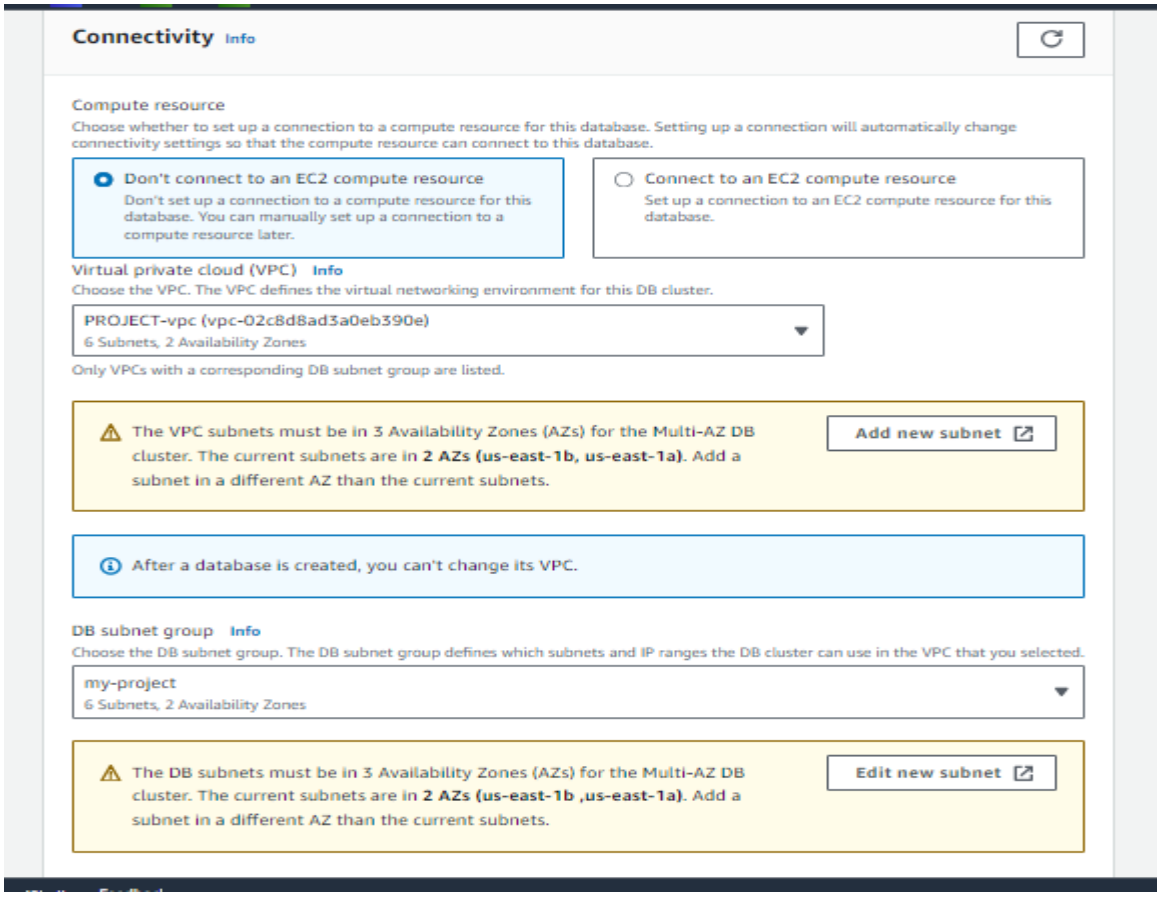
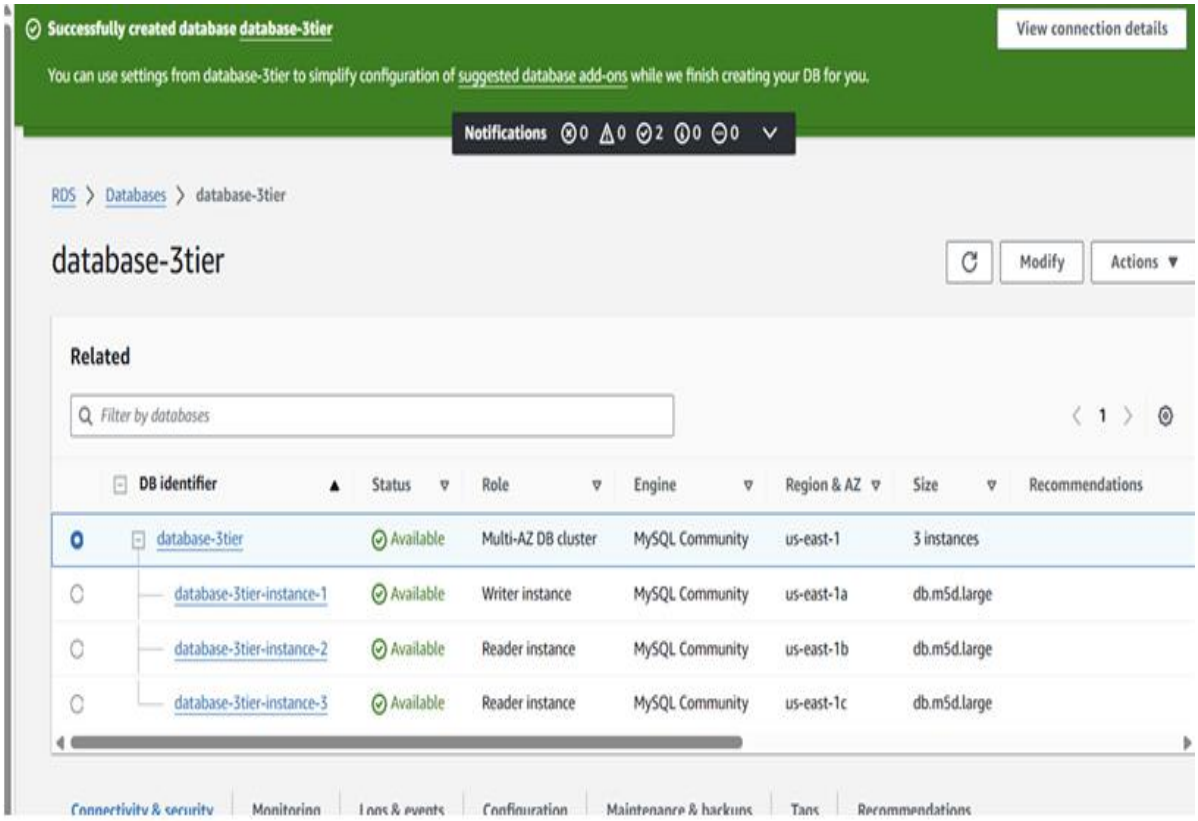
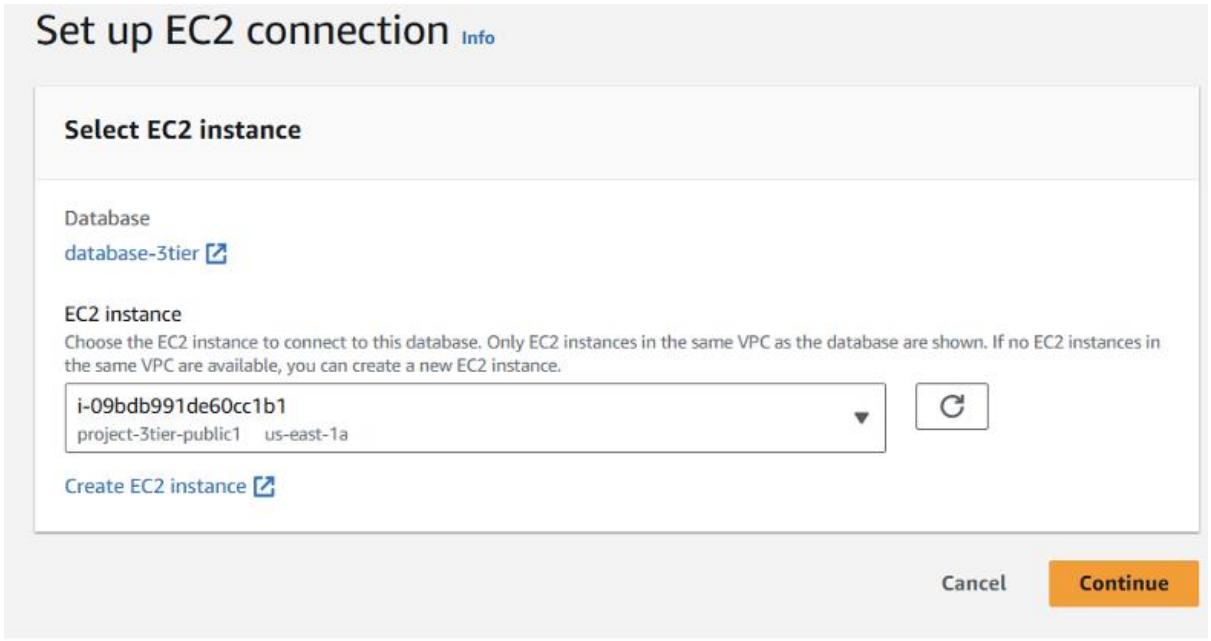
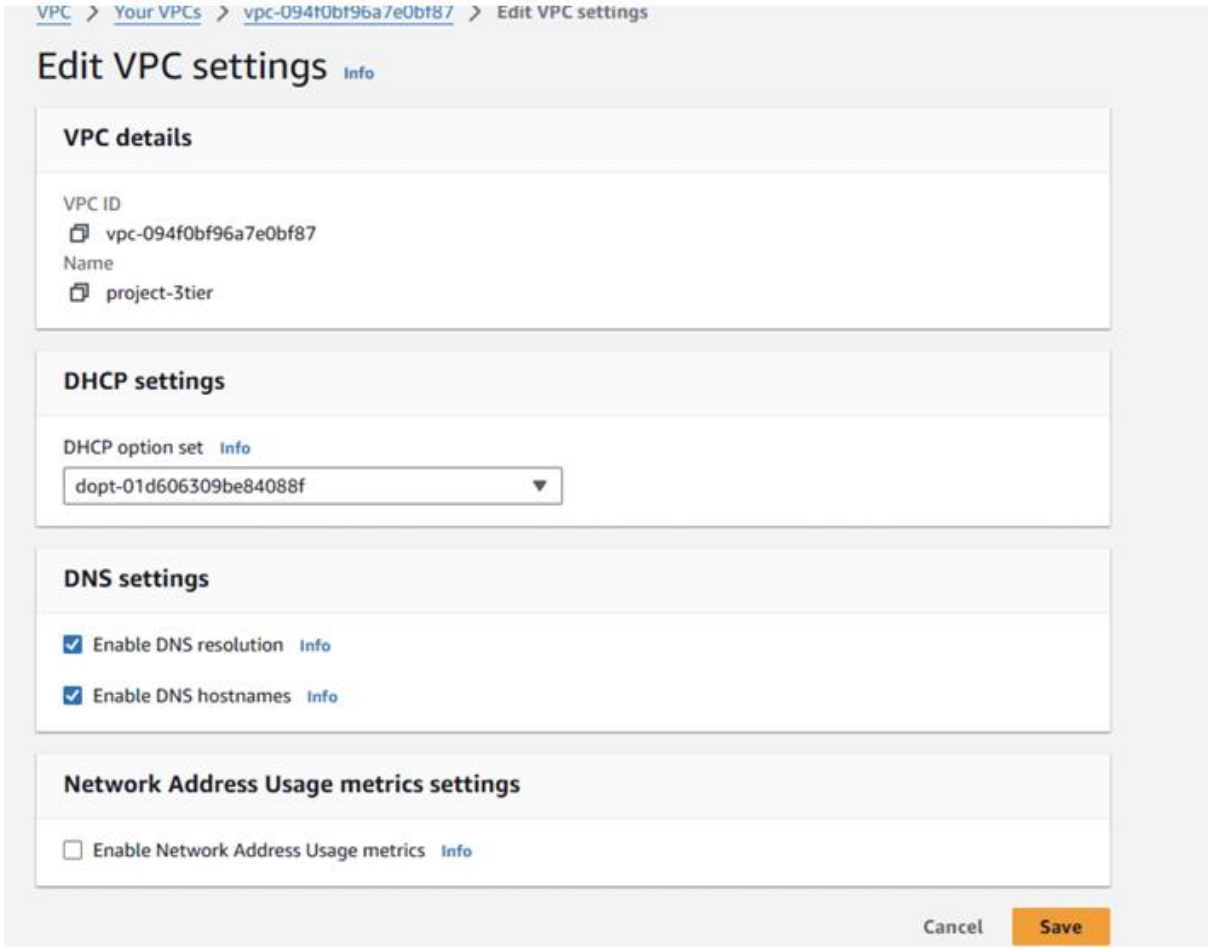
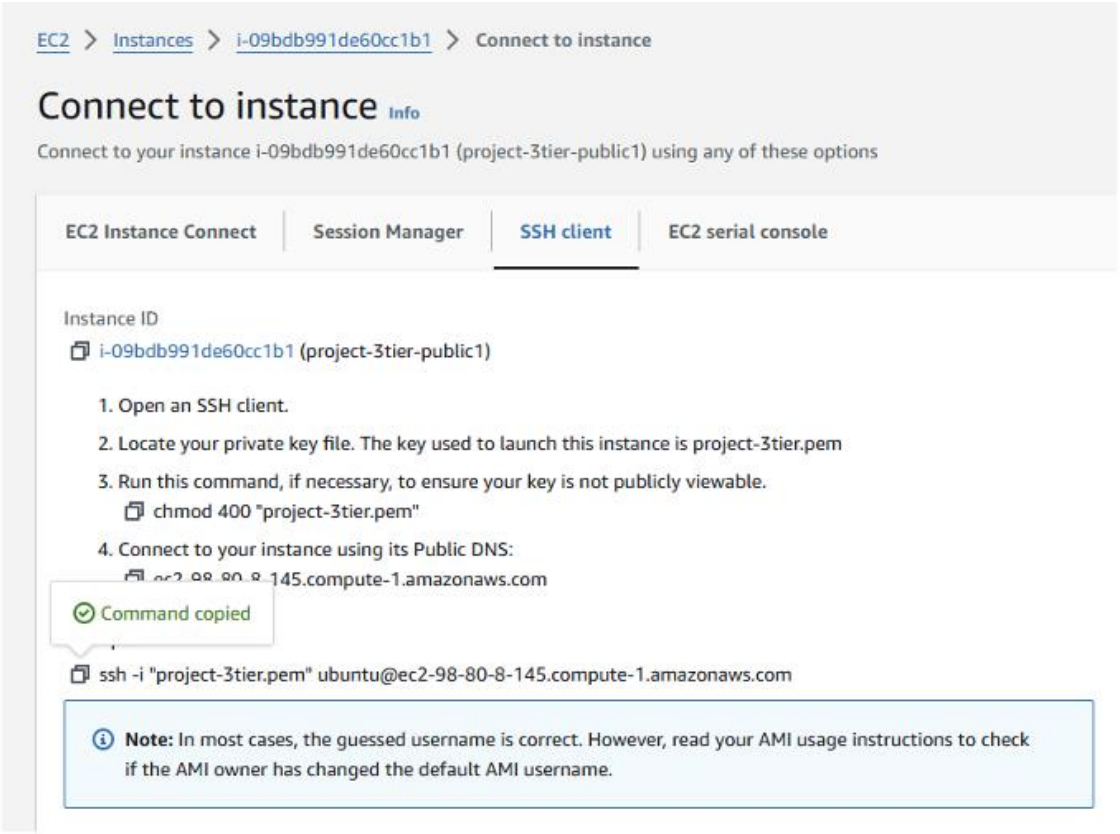

Connectivity Info
Compute resource
Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.
Don't connect to an EC2 compute resource
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.
Connect to an EC2 compute resource
Set up a connection to an EC2 compute resource for this database.
Virtual private cloud (VPC) Info
Choose the VPC. The VPC defines the virtual networking environment for this DB cluster.
PROJECT-vpc (vpc-02c8d8ad3a0eb390e)
6 Subnets, 2 Availability Zones
Only VPCs with a corresponding DB subnet group are listed.
The VPC subnets must be in 3 Availability Zones (AZs) for the Multi-AZ DB cluster. The current subnets are in 2 AZs (us-east-1b, us-east-1a). Add a subnet in a different AZ than the current subnets.
Add new subnet
After a database is created, you can't change its VPC.
DB subnet group Info
Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB cluster can use in the VPC that you selected.
my-project
6 Subnets, 2 Availability Zones
The DB subnets must be in 3 Availability Zones (AZs) for the Multi-AZ DB cluster. The current subnets are in 2 AZs (us-east-1b ,us-east-1a). Add a subnet in a different AZ than the current subnets.
Edit new subnet

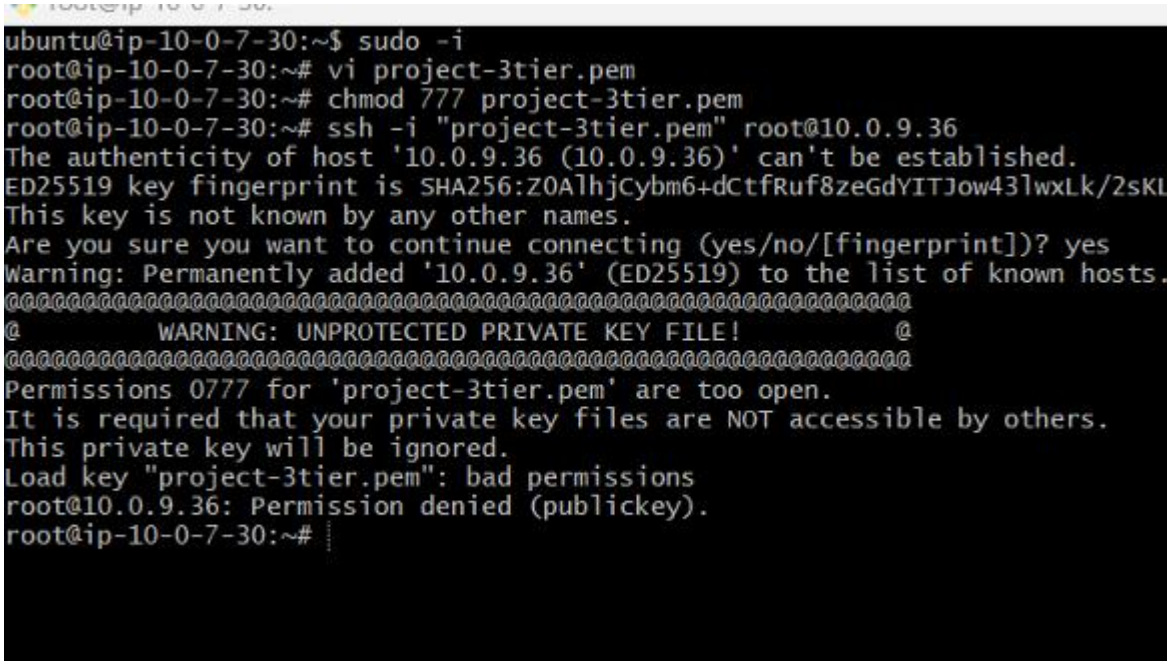

Successfully created database database-3tier
View connection details
You can use settings from database-3tier to simplify configuration of suggested database add-ons while we finish creating your DB for you.
Notifications
RDS > Databases > database-3tier
database-3tier
Modify
Actions
Related
Filter by databases
DB identifier
Status
Role
Engine
Region & AZ
Size
Recommendations
database-3tier
Available
Multi-AZ DB cluster
MySQL Community
us-east-1
3 instances
database-3tier-instance-1
Available
Writer instance
MySQL Community
us-east-1a
db.m5d.large
database-3tier-instance-2
Available
Reader instance
MySQL Community
us-east-1b
db.m5d.large
database-3tier-instance-3
Available
Reader instance
MySQL Community
us-east-1c
db.m5d.large
Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Tags
Recommendations


Set up EC2 connection Info
Select EC2 instance
Database
database-3tier
EC2 instance
Choose the EC2 instance to connect to this database. Only EC2 instances in the same VPC as the database are shown. If no EC2 instances in the same VPC are available, you can create a new EC2 instance.
i-09bdb991de60cc1b1
project-3tier-public1 us-east-1a
Create EC2 instance
Cancel
Continue


VPC > Your VPCs > vpc-094f0bf96a7e0bf87 > Edit VPC settings
Edit VPC settings Info
VPC details
VPC ID
vpc-094f0bf96a7e0bf87
Name
project-3tier
DHCP settings
DHCP option set Info
dopt-01d606309be84088f
DNS settings
Enable DNS resolution Info
Enable DNS hostnames Info
Network Address Usage metrics settings
Enable Network Address Usage metrics Info
Cancel
Save



- Once created the RDS connect to the private instance through public instance.



```
root@ip-10-0-7-30:~# mysql -h database-3tier.cluster-c9emcoqi2lvz.us-east-1.rds.amazonaws.com -u admin -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 62
Server version: 8.0.35 Source distribution

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

```
mysql> INSERT INTO Persons (ID, LastName, FirstName, Age) VALUES ('7', 'aws', 'devops', '10
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Persons (ID, LastName, FirstName, Age) VALUES ('8', 'aws', 'k8s', '8');
Query OK, 1 row affected (0.00 sec)

mysql> select * from Persons;
+----+----------+-----------+------+
| ID | LastName | FirstName | Age  |
+----+----------+-----------+------+
|  7 | aws      | devops    |   10 |
|  8 | aws      | k8s       |    8 |
+----+----------+-----------+------+
```

```
mysql> INSERT INTO Persons (ID, LastName, FirstName, Age) VALUES ('7', 'aws', 'devops', '10');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Persons (ID, LastName, FirstName, Age) VALUES ('8', 'aws', 'k8s', '8');
Query OK, 1 row affected (0.00 sec)

mysql> select * from Persons;
+----+----------+-----------+------+
| ID | LastName | FirstName | Age  |
+----+----------+-----------+------+
|  7 | aws      | devops    |   10 |
|  8 | aws      | k8s       |    8 |
+----+----------+-----------+------+
2 rows in set (0.00 sec)
```