

Project Report: Lift and Shift Application Workload

Title: Lift and Shift Application Workload

Overview:

The project focuses on lifting and shifting a multi-tier web application stack (VPROFILE) to the AWS Cloud for production. This strategy involves moving application services running on physical or virtual machines in a data center to the cloud.

Scenario:

Currently, the application services are running on physical/virtual machines with all workloads managed in your data center. The existing setup requires involvement from various teams, including virtualization, DC OPS, monitoring, and system administration.

Problems:

1. **Complex Management:** Managing the current infrastructure is complex and challenging.
2. **Scale Up/Down Complexity:** Scaling the infrastructure up or down as per demand is complicated.
3. **Upfront CapEx and Regular OpEx:** There are significant upfront capital expenditures and ongoing operational expenses.
4. **Manual Processes:** Many processes are manual, leading to inefficiencies.
5. **Difficult to Manage:** The overall system is hard to manage.
6. **Time Consuming:** Managing the infrastructure is time-consuming.

Solution:

Cloud Setup:

1. **Automation:** Automate processes to reduce manual intervention.
2. **Pay-As-You-Go:** Only pay for the resources used.
3. **Infrastructure as a Service (IAAS):** Utilize IAAS for flexible infrastructure.
4. **Flexibility:** Easily adapt to changing requirements.
5. **Ease to Manage:** Simplify management with cloud solutions.

AWS Solution:

AWS Services:

- **EC2 Instances:** Virtual machines for Tomcat, RabbitMQ, Memcached, and MySQL.
- **ELB (Elastic Load Balancer):** Replacement for Nginx Load Balancer.
- **Auto Scaling:** Automate the scaling of virtual machines.
- **S3/EFS Storage:** Use S3 or EFS for shared storage.
- **Route 53:** Private DNS service.

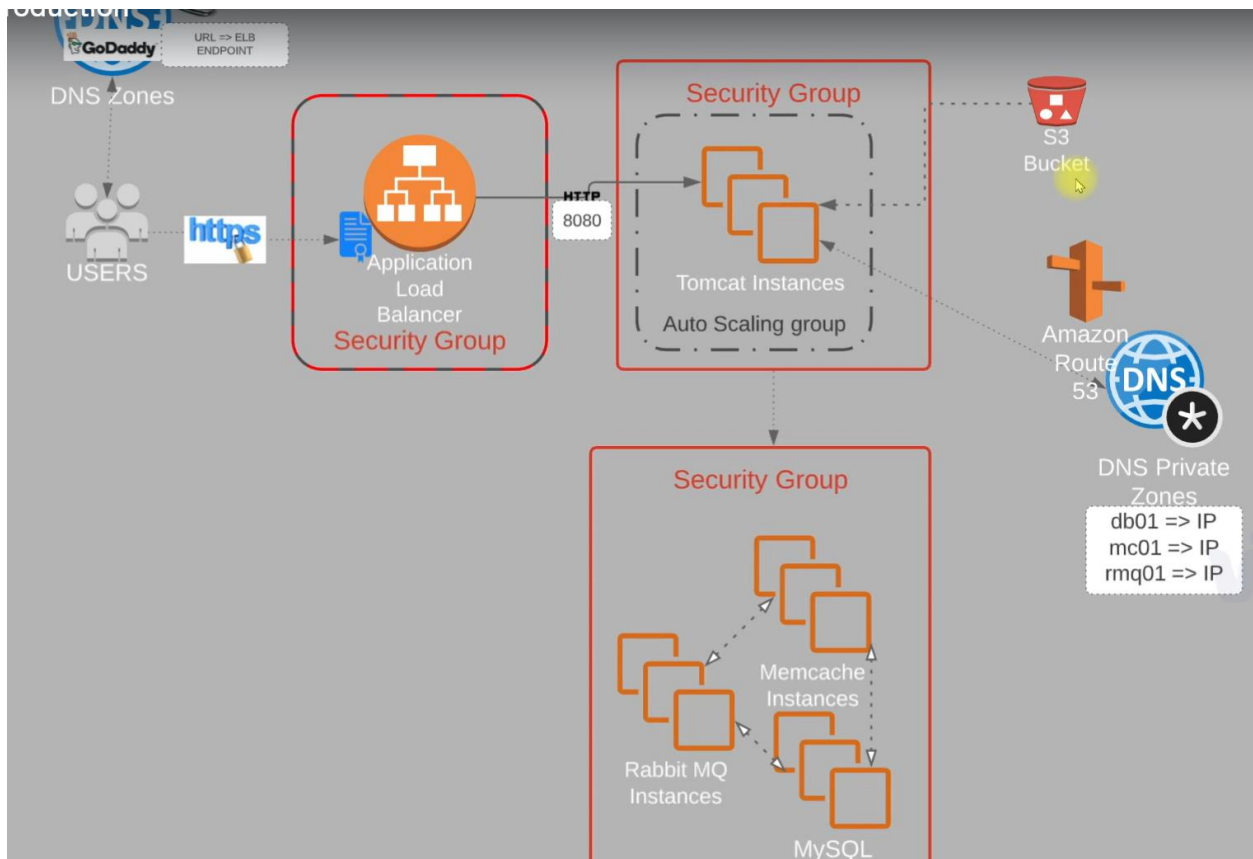
Objective:

1. **Flexible Infrastructure:** Create a flexible and scalable infrastructure.
2. **No Upfront Cost:** Eliminate upfront capital expenditures.
3. **Modernize Effectively:** Update and modernize the application infrastructure effectively.
4. **Infrastructure as Code (IAAC):** Implement IAAC for managing infrastructure.

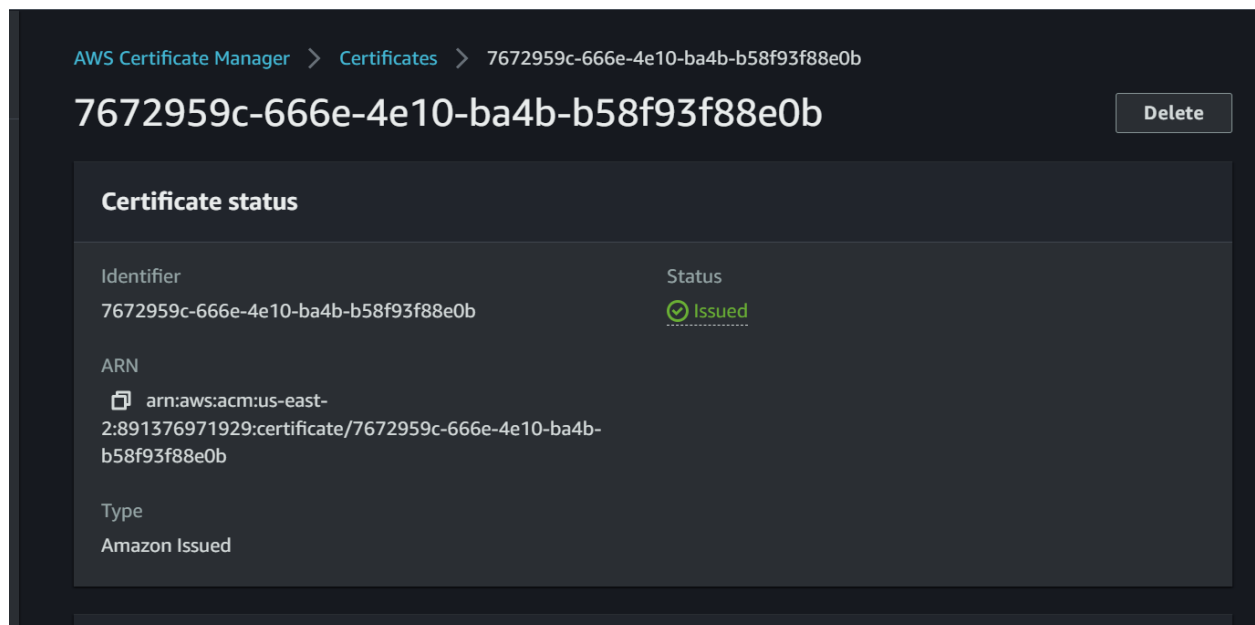
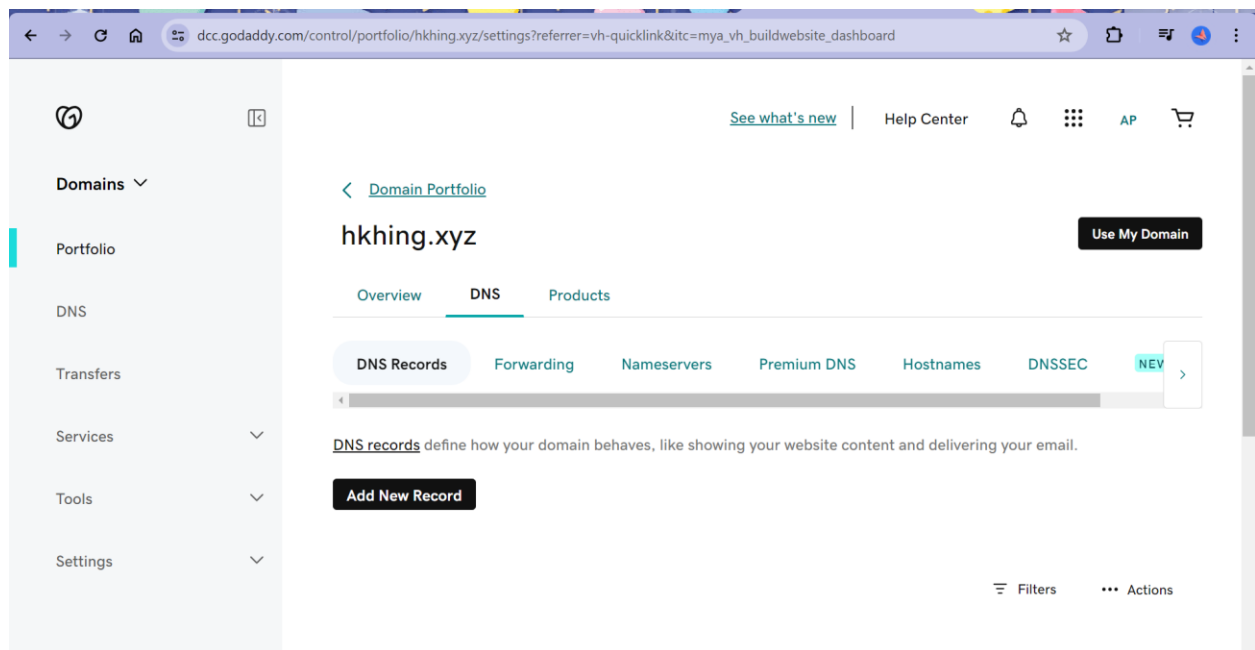
Flow:

1. **Login to AWS Account:** Access the AWS Management Console.
2. **Create Key Pairs:** Generate key pairs for secure access to instances.
3. **Create Security Groups:** Define security groups to control access to instances.
4. **Launch Instances with User Data (Bash Scripts):** Launch EC2 instances and execute initialization scripts.
5. **Update IP to Name Mapping in Route 53:** Configure DNS settings in Route 53.
6. **Build Application from Source Code:** Compile the application from the source code.
7. **Upload to S3 Bucket:** Upload the application artifacts to an S3 bucket.
8. **Download Artifact to Tomcat EC2 Instance:** Retrieve the application artifacts on the Tomcat instance.
9. **Setup ELB with HTTPS (Cert from Amazon Certificate Manager):** Configure the Elastic Load Balancer with HTTPS using a certificate from Amazon Certificate Manager.
10. **Map ELB Endpoint to Website Name in GoDaddy DNS:** Update the DNS settings in GoDaddy to point to the ELB endpoint.
11. **Verify:** Ensure that the setup works as expected and verify the application is accessible.



Pics:



1) Get AWS Certificate and validate it using GoDaddy.

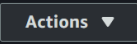


2) Create Security groups for load balancers







 Security group (sg-0f1fbcaa5725a6ceb | SG-ELB-VPCProj) was created successfully 

▶ Details

[EC2](#) > [Security Groups](#) > sg-0f1fbcaa5725a6ceb - SG-ELB-VPCProj



sg-0f1fbcaa5725a6ceb - SG-ELB-VPCProj 

Details

Security group name  SG-ELB-VPCProj	Security group ID  sg-0f1fbcaa5725a6ceb	Description  Elastic load balancers security groups	VPC ID  vpc-0189639712791a153 
Owner  891376971929	Inbound rules count 2 Permission entries	Outbound rules count 1 Permission entry	

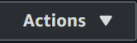
[Inbound rules](#) | [Outbound rules](#) | [Tags](#)

3) Create security group for tomcat instances







 Security group (sg-02ed966402f0b3069 | SG-TomcatInstances) was created successfully 

▶ Details

[EC2](#) > [Security Groups](#) > sg-02ed966402f0b3069 - SG-TomcatInstances

sg-02ed966402f0b3069 - SG-TomcatInstances 

Details

Security group name  SG-TomcatInstances	Security group ID  sg-02ed966402f0b3069	Description  Allowing traffic from elastic load balancer	VPC ID  vpc-0189639712791a153 
Owner  891376971929	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

4) Create security groups for MySQL, RabbitMQ and MCache

Details

Security group name SG-RabbitMQ-MYSQL-MCache	Security group ID sg-01c1a185024f82c4f	Description Creating a Security group for RabbitMQ, MYSQL , MCache services	VPC ID vpc-0189639712791a153
Owner 891376971929	Inbound rules count 3 Permission entries	Outbound rules count 1 Permission entry	

Inbound rulesOutbound rulesTags

Inbound rules (3)

Search

< 1 > ⚙

<input type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol
<input type="checkbox"/>	-	sgr-0b12cb8bf8b9d7d8e	-	Custom TCP	TCP
<input type="checkbox"/>	-	sgr-0a08dc232d4074fd8	-	Custom TCP	TCP
<input type="checkbox"/>	-	sgr-02998e20d851cc6ab	-	MYSQL/Aurora	TCP

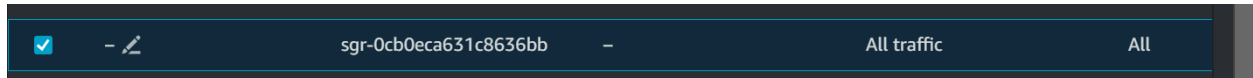
Inbound rules (3)

Search

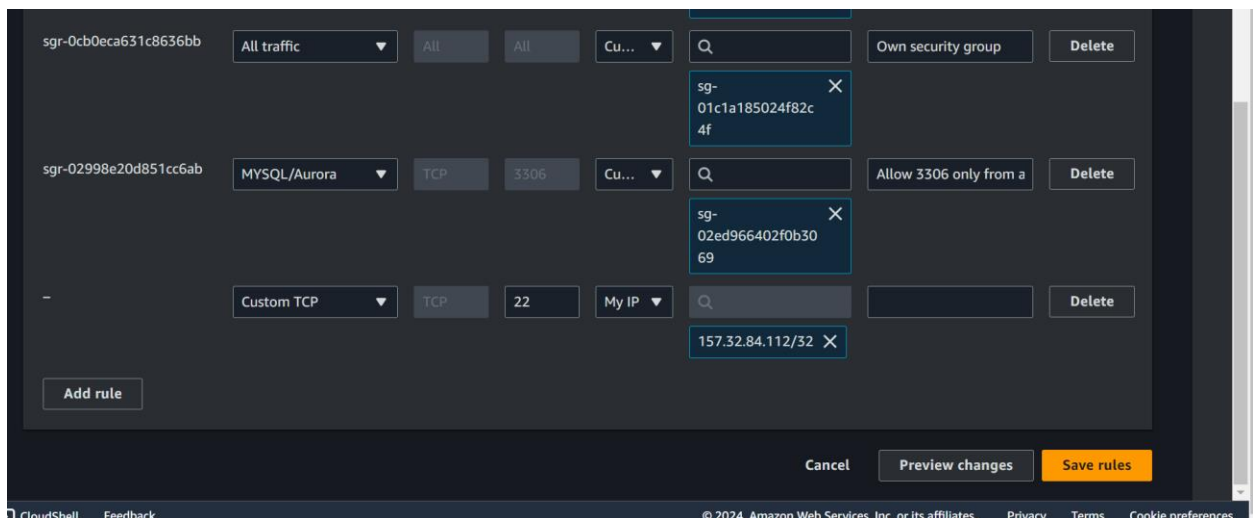
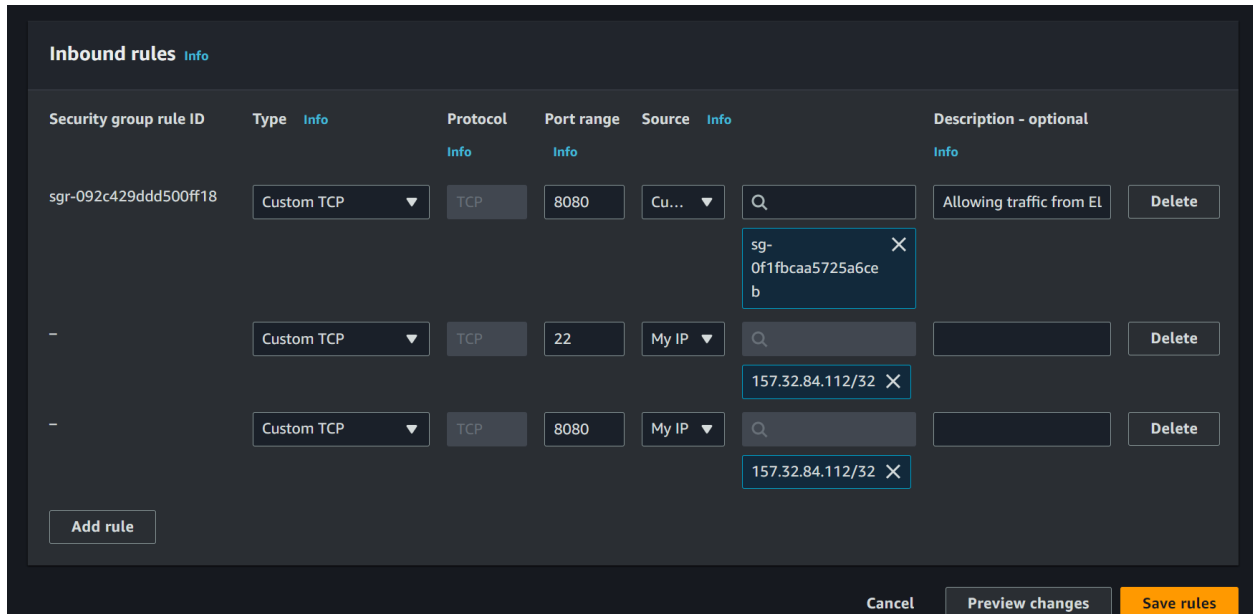
< 1 > ⚙

Protocol	Port range	Source	Description
TCP	5672	sg-02ed966402f0b30...	Allow Tomcat to connect rabbitMQ
TCP	11211	sg-02ed966402f0b30...	Allow Tomcat to connect MCache
TCP	3306	sg-02ed966402f0b30...	Allow 3306 only from application servers

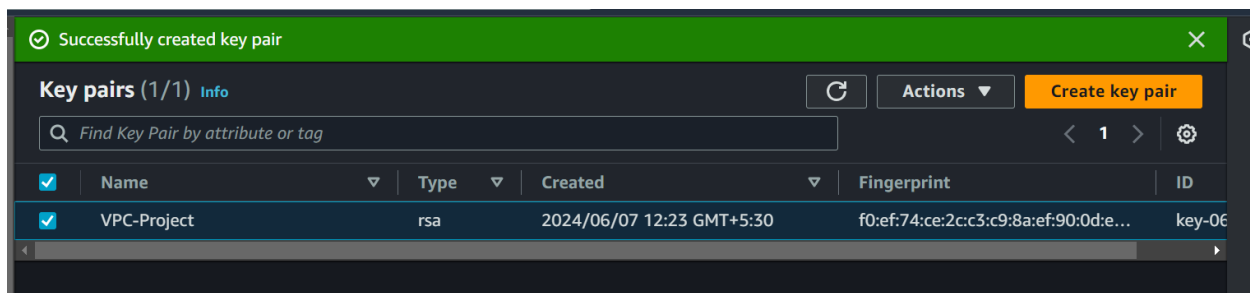
- 5) In our backend all three services need to connect, so let us create a port which allow them to connect



- 6) Add 22 from my IP in both security groups for SSH

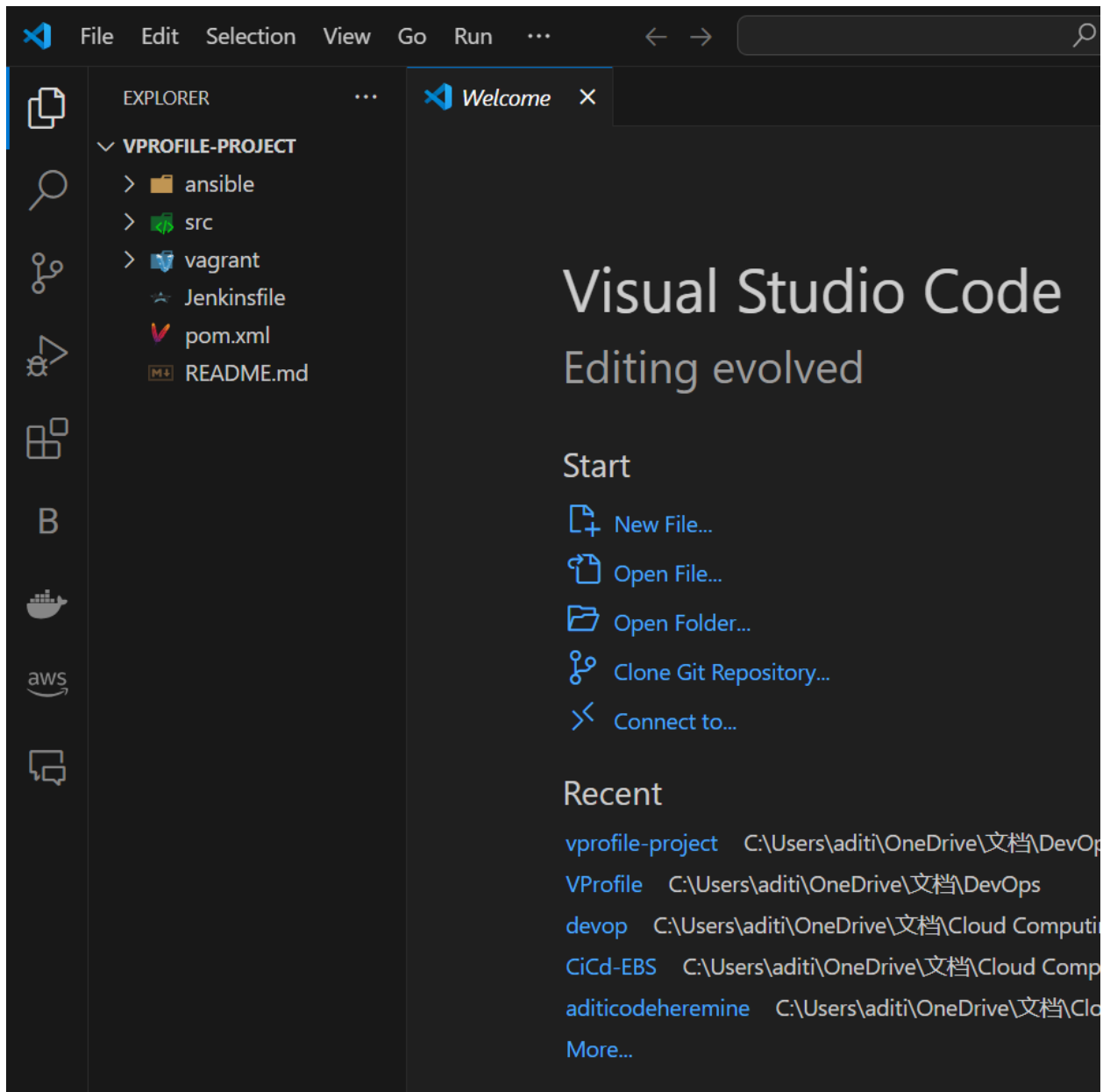


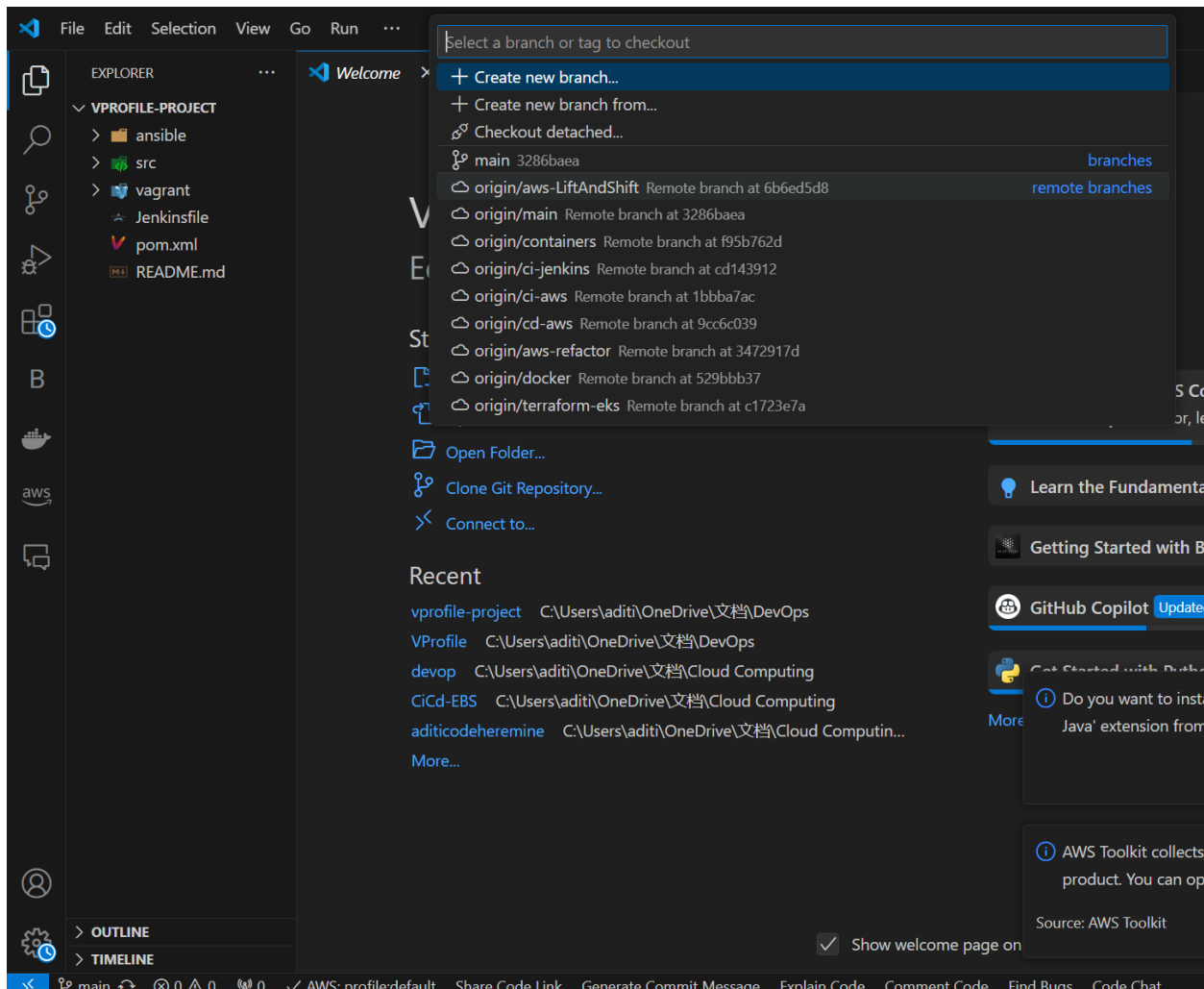
7) Create a Login Key Pair



8) Clone the source code of the project provided by development team

```
aditi@ADITI MINGW64 ~/OneDrive/文档/DevOps/ProjectSetup
$ git clone https://github.com/hkhcoder/vprofile-project.git
Cloning into 'vprofile-project'...
remote: Enumerating objects: 487, done.
remote: Total 487 (delta 0), reused 0 (delta 0), pack-reused 487
Receiving objects: 100% (487/487), 7.68 MiB | 38.00 KiB/s, done.
Resolving deltas: 100% (186/186), done.
```

















9) Launch Instance for db01 which is MySQL , mc01 for MCache, rmq01 for RabbitMQ belongs to backend security group

Instances (3) Info							Launch Instances	
Find Instance by attribute or tag (case-sensitive)							All states	
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status		
<input type="checkbox"/>	ec2-db01-vpc	i-0f4780c7375c501ba	Running	t2.micro	2/2 checks passed	View alarms		
<input type="checkbox"/>	ec2-mc01-vpc	i-02aed2cb94a2c627e	Running	t2.micro	2/2 checks passed	View alarms		
<input type="checkbox"/>	ec2-rmq-01-vpc	i-0ed9afbeb98926ca2	Running	t2.micro	Initializing	View alarms		

10) Launch Instance for Application : Tomcat --- app01

<input type="checkbox"/>	Name 	Instance ID	Instance state 	Instance type 	Status check	Alarm status
<input type="checkbox"/>	ec2-app01-vpc	i-0edc6198912187e33	 Running  	t2.micro	 Initializing	View alarms +
<input type="checkbox"/>	ec2-db01-vpc	i-0f4780c7375c501ba	 Running  	t2.micro	 2/2 checks passed	View alarms +

11) Check health and status

```
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-13-139:~$ sudo -i
root@ip-172-31-13-139:~# systemctl status mariadb
● mariadb.service - MariaDB 10.11.7 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; preset: >
   Active: active (running) since Tue 2024-06-11 12:02:45 UTC; 4min 42s ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 13897 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /va>
   Process: 13899 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_S>
   Process: 13901 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] &&>
   Process: 13974 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_>
   Process: 13977 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0>
  Main PID: 13961 (mariabdb)
    Status: "Taking your SQL requests now..."
     Tasks: 10 (limit: 7463)
    Memory: 84.6M (peak: 87.6M)
       CPU: 485ms
    CGroup: /system.slice/mariadb.service
            └─13961 /usr/sbin/mariabdb

Jun 11 12:02:45 ip-172-31-13-139 mariabdb[13961]: 2024-06-11 12:02:45 0 [Note] >
```

12) Check if you can access Maria db

```
root@ip-172-31-13-139:~# mysql -u admin -padmin123 accounts
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.11.7-MariaDB-2ubuntu2 Ubuntu 24.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [accounts]> show tables;
+-----+
| Tables_in_accounts |
+-----+
| role                |
| user                 |
| user_role            |
+-----+
3 rows in set (0.000 sec)

MariaDB [accounts]> |
```

13) Check connectivity of Memechace

```
aditi@ADITI MINGW64 ~/downloads
$ ssh -i vprofile-key-pair.pem ubuntu@3.133.132.163
The authenticity of host '3.133.132.163 (3.133.132.163)' can't be established.
ED25519 key fingerprint is SHA256:So+8eXdVidHOhrXF+dbvcxZFyXEMP59Ed0wqa69/MP4.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.133.132.163' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1008-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Tue Jun 11 12:17:41 UTC 2024

System load:  0.0                Processes:           106
Usage of /:   26.3% of 6.71GB    Users logged in:    0
Memory usage: 24%                IPv4 address for enX0: 172.31.2.248
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

82 updates can be applied immediately.
48 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-2-248:~$ sudo -i
root@ip-172-31-2-248:~# ss -tunlp | grep 11211
tcp    LISTEN 0      1024          0.0.0.0:11211  0.0.0.0:*    users:((("me
mcached",pid=1708,fd=26))
tcp    LISTEN 0      1024          :::1:11211   ::::*        users:((("me
mcached",pid=1708,fd=27))
root@ip-172-31-2-248:~#
```

14) Check the connectivity of RabbitMQ

```
o run a command as administrator (user "root"), use "sudo <command>".
ee "man sudo_root" for details.

buntu@ip-172-31-13-233:~$ sudo -i
oot@ip-172-31-13-233:~# systemctl status rabbitmq-server
rabbitmq-server.service - RabbitMQ broker
   Loaded: loaded (/usr/lib/systemd/system/rabbitmq-server.service; enabled; >
   Active: active (running) since Tue 2024-06-11 12:05:51 UTC; 15min ago
   Main PID: 5520 (beam.smp)
   Tasks: 50 (limit: 1130)
   Memory: 93.7M (peak: 147.9M)
   CPU: 6.658s
   CGroup: /system.slice/rabbitmq-server.service
           └─5520 /usr/lib/erlang/erts-13.2.2.5/bin/beam.smp -W w -MBas ageff>
             └─5530 erl_child_setup 32768
               └─5575 /usr/lib/erlang/erts-13.2.2.5/bin/inet_gethost 4
                 └─5576 /usr/lib/erlang/erts-13.2.2.5/bin/inet_gethost 4
                   └─5579 /bin/sh -s rabbit_disk_monitor

un 11 12:05:49 ip-172-31-13-233 rabbitmq-server[5520]: Release series support>
un 11 12:05:49 ip-172-31-13-233 rabbitmq-server[5520]: Doc guides: https://>
un 11 12:05:49 ip-172-31-13-233 rabbitmq-server[5520]: Support: https://>
un 11 12:05:49 ip-172-31-13-233 rabbitmq-server[5520]: Tutorials: https://>
un 11 12:05:49 ip-172-31-13-233 rabbitmq-server[5520]: Monitoring: https://>
un 11 12:05:49 ip-172-31-13-233 rabbitmq-server[5520]: Logs: /var/log/rabbit>
un 11 12:05:49 ip-172-31-13-233 rabbitmq-server[5520]: <stdout>
un 11 12:05:49 ip-172-31-13-233 rabbitmq-server[5520]: Config file(s): /etc/>
un 11 12:05:51 ip-172-31-13-233 systemd[1]: Started rabbitmq-server.service - >
un 11 12:05:51 ip-172-31-13-233 rabbitmq-server[5520]: Starting broker... co>
ines 1-24/24 (END)
```

15) Same for Tomcat

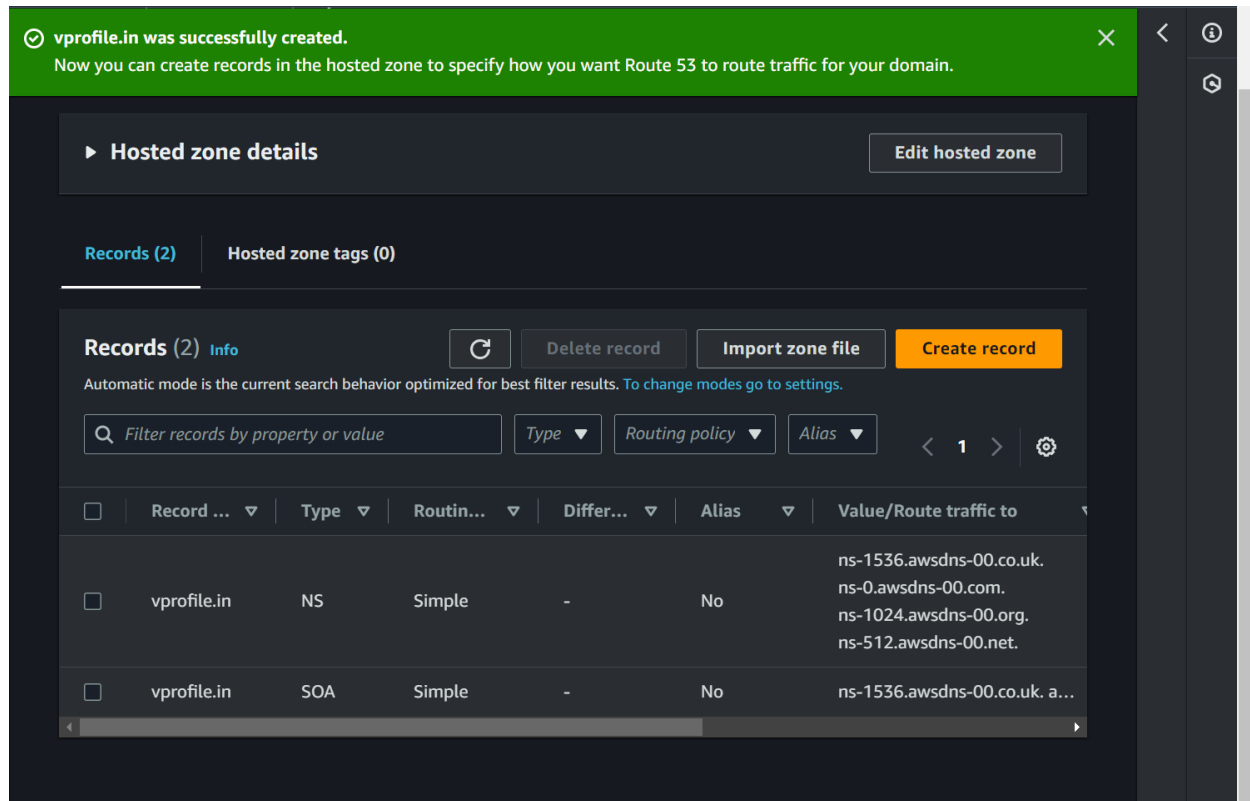
```
root@ip-172-31-3-224:~# systemctl status tomcat10
● tomcat10.service - Apache Tomcat 10 Web Application Server
   Loaded: loaded (/usr/lib/systemd/system/tomcat10.service; enabled; preset:
   Active: active (running) since Tue 2024-06-11 12:47:55 UTC; 3min 7s ago
     Docs: https://tomcat.apache.org/tomcat-10.0-doc/index.html
   Process: 14421 ExecStartPre=/usr/libexec/tomcat10/tomcat-update-policy.sh (>
   Main PID: 14426 (java)
      Tasks: 28 (limit: 1130)
     Memory: 109.0M (peak: 114.3M)
        CPU: 9.191s
    CGroup: /system.slice/tomcat10.service
            └─14426 /usr/lib/jvm/java-11-openjdk-amd64/bin/java -Djava.util.lo>

Jun 11 12:48:03 ip-172-31-3-224 tomcat10[14426]: Deployment of deployment descr>
Jun 11 12:48:03 ip-172-31-3-224 tomcat10[14426]: Deploying deployment descripto>
Jun 11 12:48:03 ip-172-31-3-224 tomcat10[14426]: The path attribute with value >
Jun 11 12:48:05 ip-172-31-3-224 tomcat10[14426]: At least one JAR was scanned f>
Jun 11 12:48:05 ip-172-31-3-224 tomcat10[14426]: Deployment of deployment descr>
Jun 11 12:48:05 ip-172-31-3-224 tomcat10[14426]: Deploying web application dire>
Jun 11 12:48:06 ip-172-31-3-224 tomcat10[14426]: At least one JAR was scanned f>
Jun 11 12:48:06 ip-172-31-3-224 tomcat10[14426]: Deployment of web application >
Jun 11 12:48:06 ip-172-31-3-224 tomcat10[14426]: Starting ProtocolHandler ["htt>
Jun 11 12:48:06 ip-172-31-3-224 tomcat10[14426]: Server startup in [6403] milli>
lines 1-22/22 (END)
```

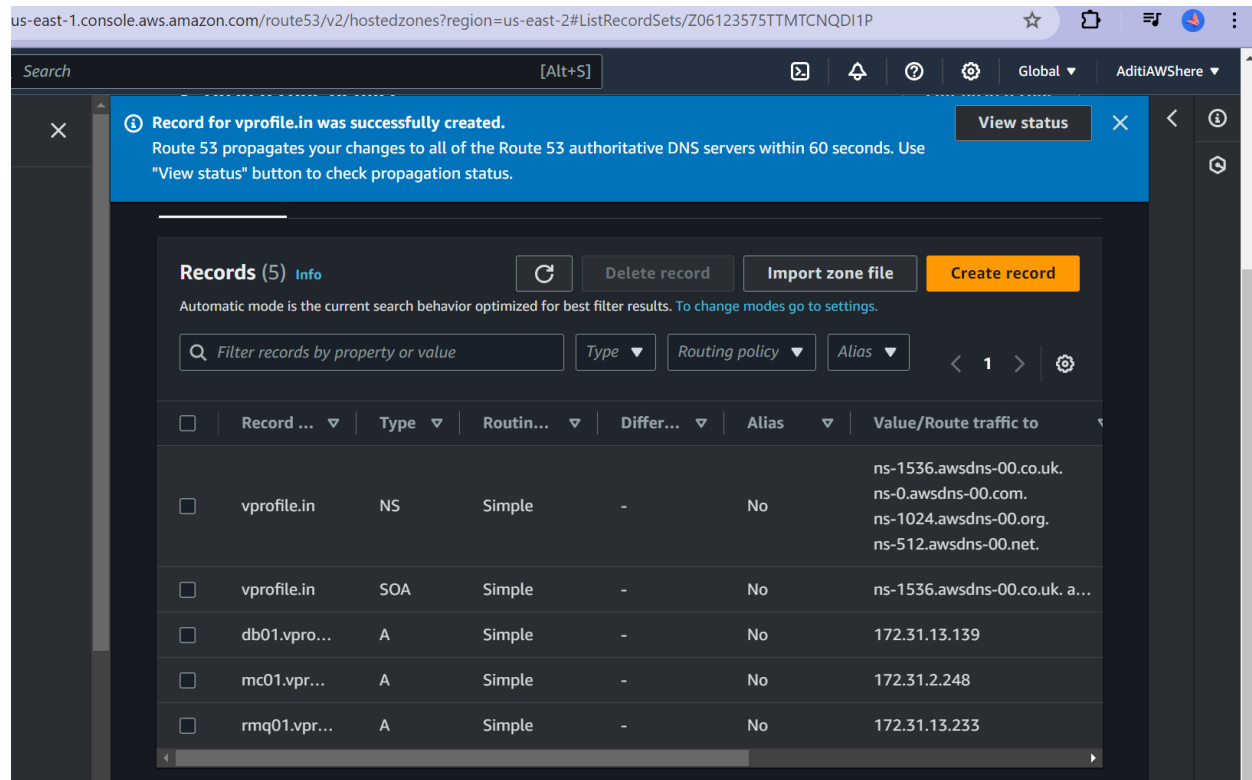
```
Command not found
root@ip-172-31-3-224:~#
root@ip-172-31-3-224:~#
root@ip-172-31-3-224:~#
root@ip-172-31-3-224:~#
root@ip-172-31-3-224:~#
root@ip-172-31-3-224:~# ls /var/lib/tomcat10/
conf lib logs policy webapps work
root@ip-172-31-3-224:~# ls /var/lib/tomcat10/webapps/
ROOT
root@ip-172-31-3-224:~# |
```

16) Configure famous DNS called Route53

- We need to create the zones, which will be your domain name and then in that domain you will be having different hosts
- That host will be having IP address or Cname

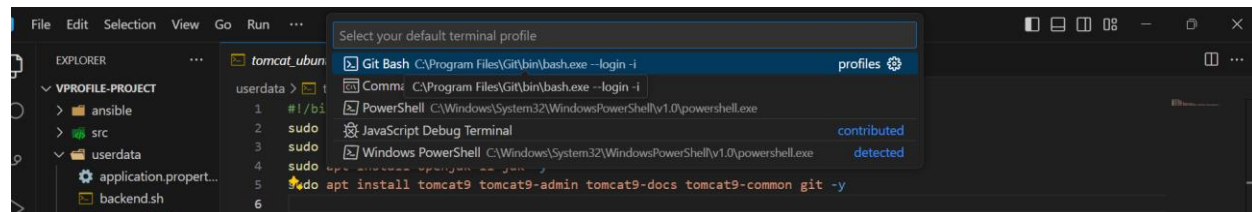


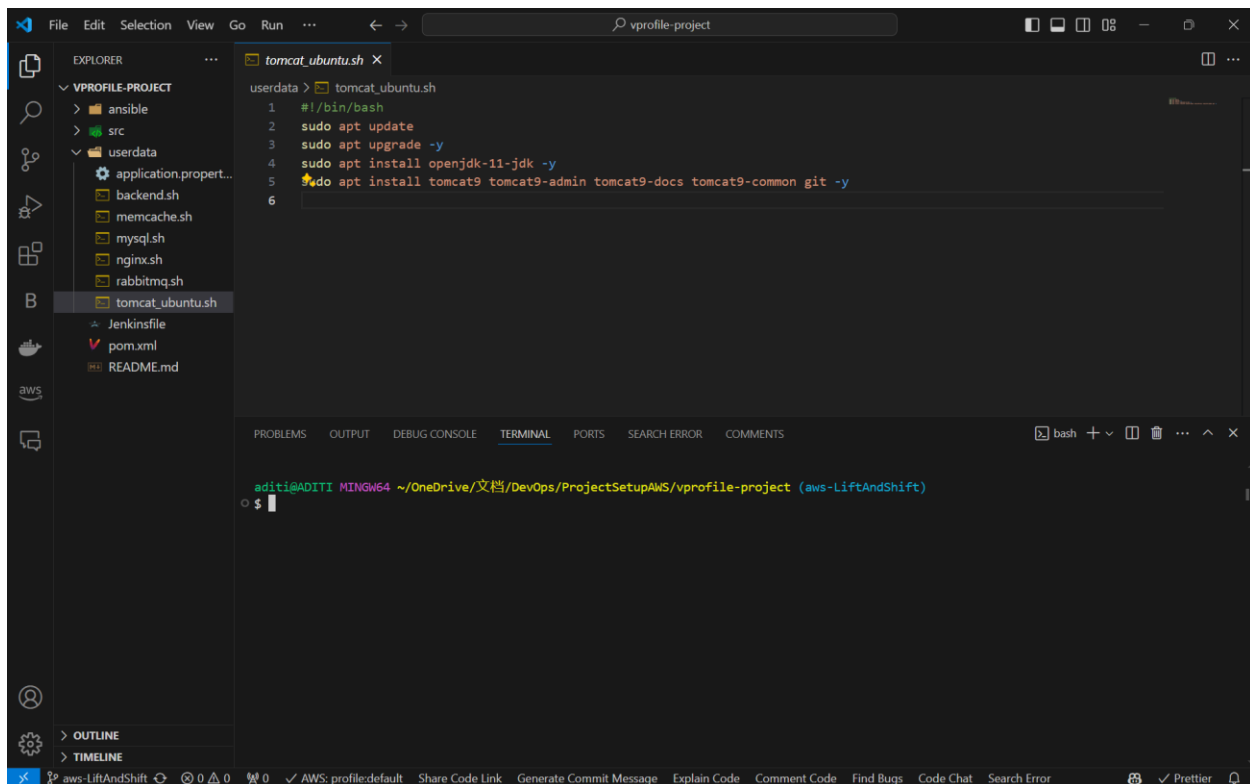
- Create different records
- We need these records so that the app server will connect to these backend services in application .properties files. Basically, it is a backend server record.



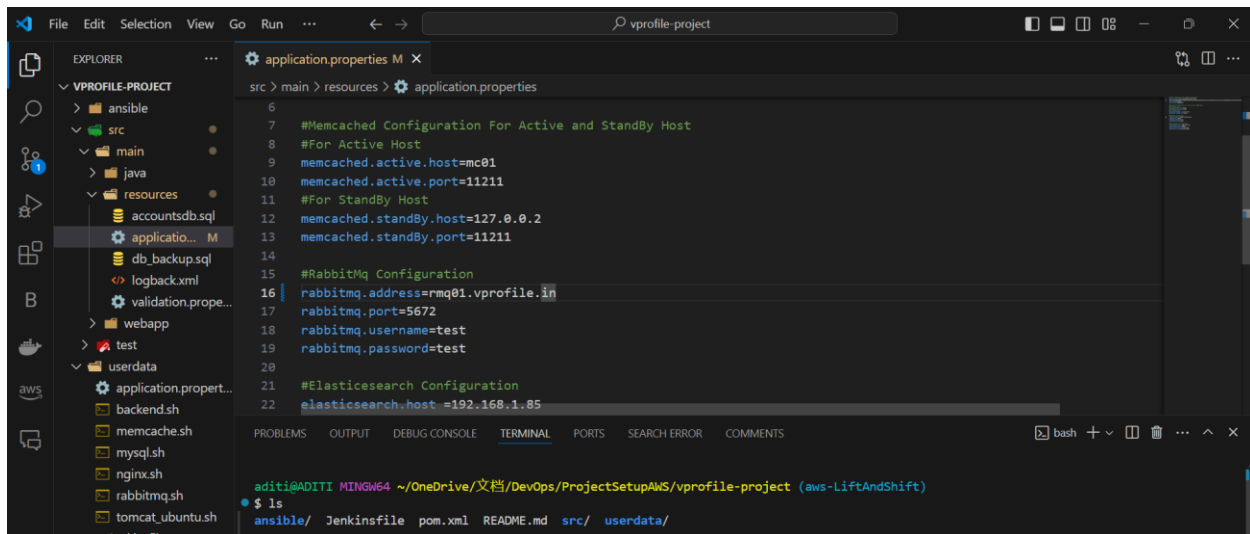
17) Now it is time to build our artifacts.

- Upload it to S3 Bucket, and from there, fetch to the EC2 instance to the tomcat EC2 instance.
- In VS code make git bash the default terminal

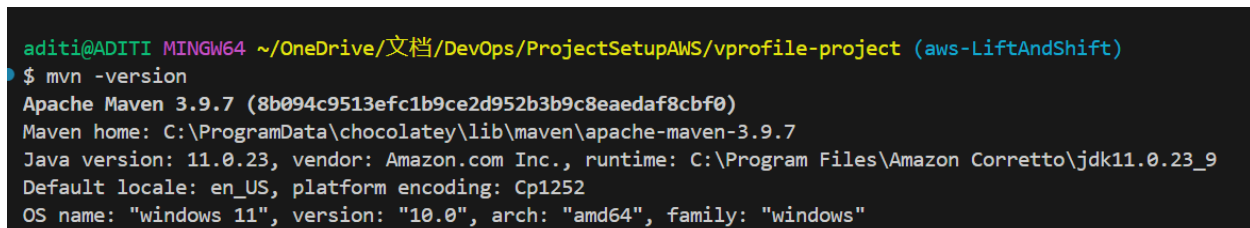




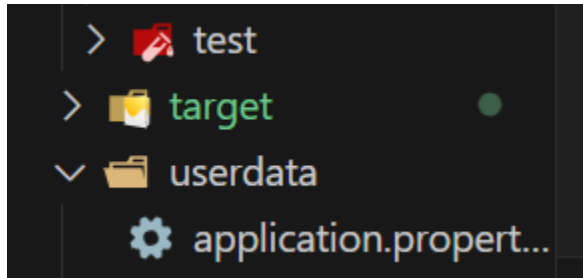
- Add .vprofile.in to db01 and rmq01.



- Check if Maven is configured properly



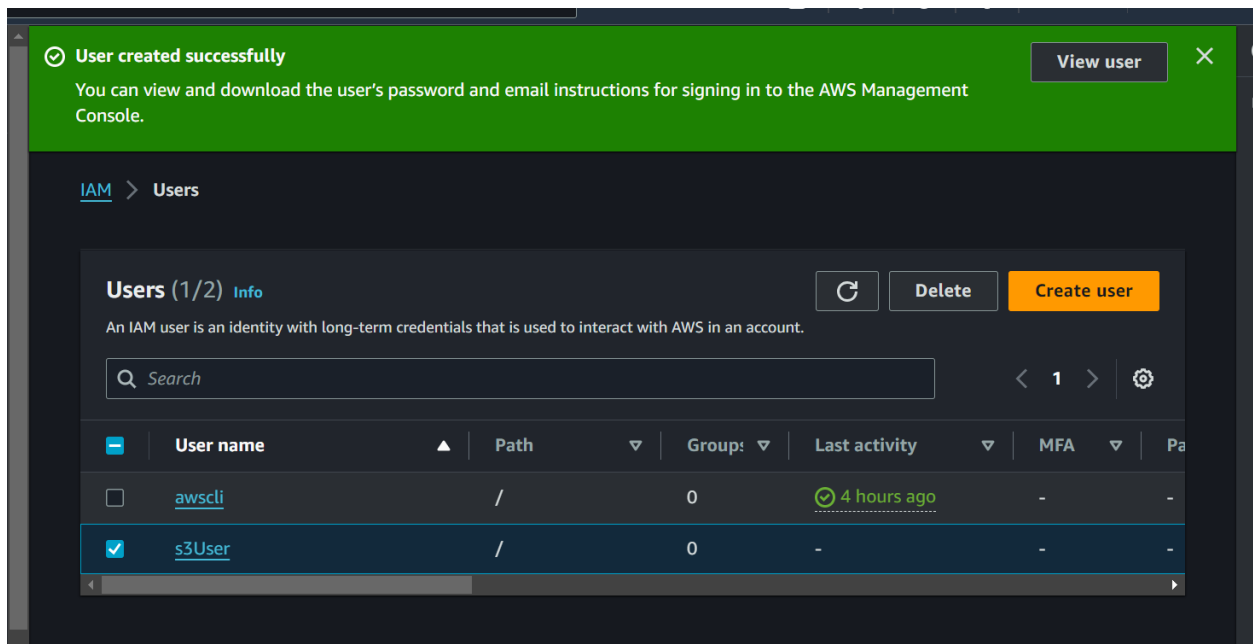
- Run command `mvn install` in the particular folder to build the artifact
- If build is successful you will be able to see `target/` folder



- Now it is time to push the artifacts to S3 bucket hence we need an IAM role and s3 bucket.

```
[INFO]
[INFO] --- install:3.1.1:install (default-install) @ vprofile ---
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.5.0/plexus-utils-3.5.0.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.5.0/plexus-utils-3.5.0.jar (267 kB at 12
2 kB/s)
[INFO] Installing C:\Users\aditi\OneDrive\??\DevOps\ProjectSetupAWS\vprofile-project\pom.xml to C:\Users\aditi\.m2\repository\com\visualp
athit\vprofile\v2\vprofile-v2.pom
[INFO] Installing C:\Users\aditi\OneDrive\??\DevOps\ProjectSetupAWS\vprofile-project\target\vprofile-v2.war to C:\Users\aditi\.m2\reposit
ory\com\visualpathit\vprofile\v2\vprofile-v2.war
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 07:00 min
[INFO] Finished at: 2024-06-11T20:37:53+05:30
[INFO] -----
```

- Create a user with s3 bucketfullAccess.



```
aditi@ADITI MINGW64 ~/OneDrive/文档/DevOps/ProjectSetupAWS/vprofile-project (aws-LiftAndShift)
$ aws s3 mb s3://aditi-artifact-bucket
make_bucket: aditi-artifact-bucket

aditi@ADITI MINGW64 ~/OneDrive/文档/DevOps/ProjectSetupAWS/vprofile-project (aws-LiftAndShift)
$
```

- Copy artifact to s3 bucket

```
aditi@ADITI MINGW64 ~/OneDrive/文档/DevOps/ProjectSetupAWS/vprofile-project (aws-LiftAndShift)
$ aws s3 cp target/vprofile-v2.war s3://aditi-artifact-bucket-here/
Completed 512.0 KiB/52.1 MiB (91.8 KiB/s) with 1 file(s) remaining
```

Amazon S3 > Buckets > aditi-artifact-bucket-here

aditi-artifact-bucket-here [Info](#)

[Objects](#) | [Properties](#) | [Permissions](#) | [Metrics](#) | [Management](#) | [Access Points](#)

Objects (1) [Info](#)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	vprofile-v2.war	war	June 11, 2024, 20:48:04 (UTC+05:30)	52.1 MB	Standard

18) Final step :-

Download this artifact to our tomcat ec2 instance.

Go to IAM and go to roles and create the role and attach the role to instance :

newvprofilerole Info

Delete

Allows EC2 instances to call AWS services on your behalf.

Summary

Edit

Creation date June 11, 2024, 20:52 (UTC+05:30)	ARN arn:aws:iam::891376971929:role/newvprofilerole	Instance profile ARN arn:aws:iam::891376971929:instance-profile/newvprofilerole
Last activity -	Maximum session duration 1 hour	

Permissions

Trust relationships

Tags

Access Advisor

Revoke sessions

Permissions policies Info

Simulate

Remove

Add permissions ▾

You can attach up to 10 managed policies.

EC2 > Instances > i-08e14b22283c50fd2 > Modify IAM role

Modify IAM role Info

Attach an IAM role to your instance.

Instance ID
 i-08e14b22283c50fd2 (Vprofile_app01)

IAM role
Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

newvprofilerole ▾

Create new IAM role

Cancel

Update IAM role

- Run ssh for the instance

```
root@ip-172-31-3-224:~# apt update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Hit:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [153 kB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [61.4 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [137 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [36.0 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [42.1 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [16.2 kB]
Fetched 699 kB in 1s (848 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
root@ip-172-31-3-224:~# apt install aws cli -y
```



```
snap aws cli is already installed, see 'snap help refresh'
root@ip-172-31-3-224:~# aws s3 ls
2024-06-11 15:16:19 aditi-artifact-bucket-here
2024-05-27 07:39:29 elasticbeanstalk-us-west-2-891376971929
root@ip-172-31-3-224:~#
```

```
root@ip-172-31-3-224:~# aws s3 cp s3://aditi-artifact-bucket-here/vprofile-v2.war /tmp/
```

```
root@ip-172-31-3-224:~# rm -rf /var/lib/tomcat10/webapps/ROOT
root@ip-172-31-3-224:~# cp /tmp/vprofile-v2.war /var/lib/tomcat10/webapps/ROOT.war
```

```
e changed on disk. Run "systemctl daemon-reload" to reload units.
root@ip-172-31-3-224:~# sudo systemctl daemon-reload
root@ip-172-31-3-224:~# systemctl start tomcat10
root@ip-172-31-3-224:~# ls /var/lib/tomcat10/webapps/
ls: cannot access '/var/lib/tomcat10/webapps/': No such file or directory
root@ip-172-31-3-224:~# ls /var/lib/tomcat10/webapps/
ROOT ROOT.war
root@ip-172-31-3-224:~#
```

19) Enable Load Balancers


 Successfully created the target group: **vprofile-app-TG**. Anomaly detection is automatically applied to all registered targets. Results can be viewed in the **Targets** tab. 



[EC2](#) > [Target groups](#) > **vprofile-app-TG**

vprofile-app-TG

Actions ▼

Details

 arn:aws:elasticloadbalancing:us-east-2:891376971929:targetgroup/vprofile-app-TG/e44932049ba9cba2

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 8080	HTTP1	vpc-0189639712791a153 
IP address type	Load balancer		
IPv4	 None associated		

Targets


Monitoring


Health checks

Attributes

Tags

Registered targets (0) [Info](#)

 [Anomaly mitigation: Not applicable](#)



Deregister

Register targets

Target groups route requests to individual registered targets using the protocol and port number specified. Health checks are performed on all registered targets according to the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups with at least 3 healthy targets.

EC2 > Load balancers > vprofile-elb

vprofile-elb

Actions

▼ Details

Load balancer type Application	Status Provisioning	VPC vpc-0189639712791a153	IP address type IPv4
Scheme Internet-facing	Hosted zone Z3AADJGX6K TTL2	Availability Zones subnet-0bda841bcc599db19 us-east-2b (use2-az2) subnet-0d955f1f9e295fb3a us-east-2c (use2-az3) subnet-0cfb596e7f256dbf2 us-east-2a (use2-az1)	Date created June 11, 2024, 23:00 (UTC+05:30)
Load balancer ARN arn:aws:elasticloadbalancing:us-east-2:891376971929:loadbalancer/app/vprofile-elb/546daf391239a28e		DNS name Info vprofile-elb-676775454.us-east-2.elb.amazonaws.com (A Record)	

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

20) Go to your service provider by clicking on DNS name

dcc.godaddy.com/control/portfolio/hkHING.xyz/settings?tab=dns&itc=mya_vh_buildwebsite_domain

See what's new | Help Center | AP

Domains ▼

- Portfolio
- DNS
- Transfers





Domain Portfolio

hkHING.xyz

Use My Domain

Overview DNS Products

DNS Records Forwarding Nameservers Premium DNS Hostnames DNSSEC NEW

<input type="checkbox"/>	NS	@	ns66.domaincontrol.com.	1 Hour	Can't delete	Can't edit
<input type="checkbox"/>	CNAME	vprofileapp	vprofile-elb-676775454.us-east-2.elb.amazonaws.com.	1 Hour		
<input type="checkbox"/>	CNAME	www	hkking.xyz.	1 Hour		

Check your domain name in browser...