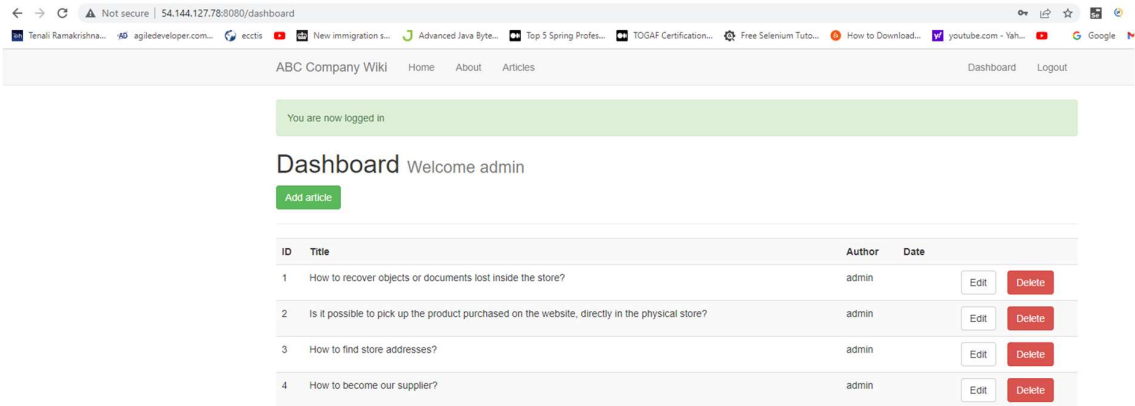
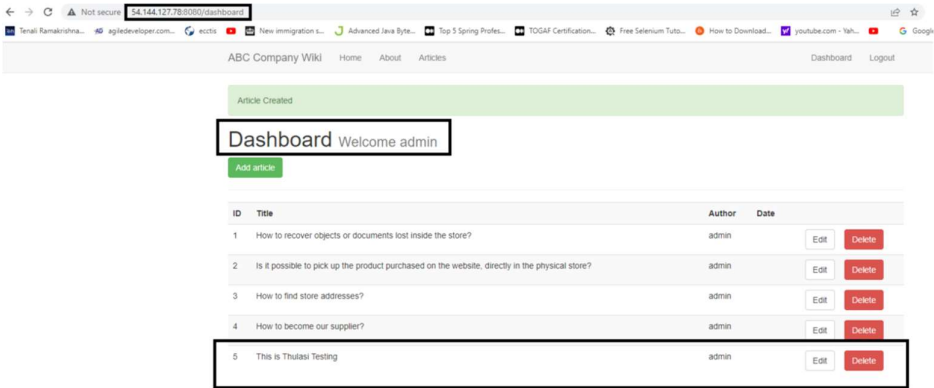


Migration of a Workload running in a Corporate Data Center to AWS using the Amazon EC2 and RDS service



```
ubuntu@ip-10-0-0-66:~$ cd wikiapp
ubuntu@ip-10-0-0-66:~/wikiapp$ python3 wiki.py
* Serving Flask app 'wiki'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:8080
* Running on http://10.0.0.66:8080
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 151-376-939
49.205.99.249 - - [13/Sep/2022 17:54:22] "GET / HTTP/1.1" 200 -
49.205.99.249 - - [13/Sep/2022 17:54:23] "GET /favicon.ico HTTP/1.1" 404 -
49.205.99.249 - - [13/Sep/2022 17:54:27] "GET /register HTTP/1.1" 200 -
49.205.99.249 - - [13/Sep/2022 17:54:33] "GET / HTTP/1.1" 200 -
49.205.99.249 - - [13/Sep/2022 17:54:35] "GET /articles HTTP/1.1" 200 -
49.205.99.249 - - [13/Sep/2022 17:54:37] "GET /login HTTP/1.1" 200 -
49.205.99.249 - - [13/Sep/2022 17:55:21] "POST /login HTTP/1.1" 200 -
49.205.99.249 - - [13/Sep/2022 17:56:51] "POST /login HTTP/1.1" 302 -
49.205.99.249 - - [13/Sep/2022 17:56:51] "GET /dashboard HTTP/1.1" 200 -
49.205.99.249 - - [13/Sep/2022 17:57:37] "GET /add_article HTTP/1.1" 200 -
49.205.99.249 - - [13/Sep/2022 17:58:00] "POST /add_article HTTP/1.1" 302 -
49.205.99.249 - - [13/Sep/2022 17:58:00] "GET /dashboard HTTP/1.1" 200 -
```

Buckets (1) Info

Refresh

Copy ARN

Empty

Delete

Create bucket

Find buckets by name

< 1 >

Name	AWS Region	Access	Creation date
<input type="radio"/> my-app-01-s3-bucket-01	US East (N. Virginia) us-east-1	Objects can be public	September 13, 2022, 23:07:23 (UTC+05:30)

Objects (2)

Refresh

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	dump-en.sql	sql	September 13, 2022, 23:08:15 (UTC+05:30)	3.6 KB	Standard
<input type="checkbox"/>	wikiapp-en.zip	zip	September 13, 2022, 23:09:30 (UTC+05:30)	9.5 KB	Standard

vpc-035b75ce48cdda98 / vpc-prod-1

Actions

Details Info

VPC ID vpc-035b75ce48cdda98	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0767d34d6ea1cfcb3	Main route table rtb-0e7f3df45e425660	Main network ACL acl-0448598173420a171
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -
Route 53 Resolver DNS Firewall rule groups -	Owner ID 476505616044		

igw-0293fe8b0f1f30eb4 / igw-prod-1

Actions

Details Info

Internet gateway ID igw-0293fe8b0f1f30eb4	State Attached	VPC ID vpc-035b75ce48cdda98 vpc-prod-1	Owner 476505616044
--	-------------------	---	-----------------------

rtb-025a220eaf3bfd86d

Actions

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Details

Route table ID
rtb-025a220eaf3bfd86d

Main
Yes

Explicit subnet associations
-

Edge associations
-

VPC
vpc-0a4ae0af92c70533c

Owner ID
476505616044

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (2)

Edit routes

Filter routes

Both

< 1 >

Destination	Target	Status	Propagated
0.0.0.0	igw-0bbe34d22219a4599	Active	No
172.0/16	local	Active	No

Subnets (3)

Info

Actions

Create subnet

Filter subnets

search: vpc-prod-1

Clear filters

< 1 >

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses
vpc-prod-1-pub-1 (Public)	subnet-052ba4ca6774d231	Available	vpc-035b75ce48cdeda98 vpc...	10.0/24	-	250
vpc-prod-1-pvt-1 (Private)	subnet-062d1568bf2872736	Available	vpc-035b75ce48cdeda98 vpc...	10.0/24	-	250
vpc-prod-1-pvt-2 (Private)	subnet-0f6d0ff0710d958b4	Available	vpc-035b75ce48cdeda98 vpc...	10.0/24	-	251

Instance summary for i-0607db4eb522daf87 (aws-us-e1-app-01)

Info

Connect

Instance state

Actions

Updated less than a minute ago

Instance ID
i-0607db4eb522daf87 (aws-us-e1-app-01)

Public IPv4 address
54. .78 | open address

Private IPv4 addresses
10.

IPv6 address
-

Instance state
Running

Public IPv4 DNS
-

Hostname type
IP name: ip-10-0-0-66.ec2.internal

Private IP DNS name (IPv4 only)
ip-10-0-0-66.ec2.internal

Elastic IP addresses
-

Answer private resource DNS name
IPv4 (A)

Instance type
t2.micro

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto-assigned IP address
54. .78 [Public IP]

VPC ID
vpc-035b75ce48cdeda98 (vpc-prod-1)

Auto Scaling Group name
-

IAM Role
-

Subnet ID
subnet-052ba4ca6774d231 (vpc-prod-1-pub-1 (Public))

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance details

Info

Platform
Ubuntu (Inferred)

AMI ID
ami-052efd3d9dad4825

Monitoring
disabled

Platform details
Linux/UNIX

AMI name
ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20220609

Termination protection
Disabled

Stop protection
Disabled

Launch time
Tue Sep 13 2022 20:54:06 GMT+0530 (India Standard Time) (about 3 hours)

AMI location
amazon/ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20220609

Instance auto-recovery
Default

Lifecycle
normal

Stop-hibernate behavior
disabled

Security groups
sg-022e94313e070790c (aws-us-e1-app-01-sg)

Inbound rules

<div>Filter rules</div>				
Security group rule ID	Port range	Protocol	Source	Security groups
sgr-0e10359cacb759ab7	8080	TCP	0.0.0.0/0	aws-us-e1-app-01-sg
sgr-061c6133b8d8b328e	22	TCP	0.0.0.0/0	aws-us-e1-app-01-sg

Outbound rules

<div>Filter rules</div>				
Security group rule ID	Port range	Protocol	Destination	Security groups
sgr-015d1e92caa4fdccc	All	All	0.0.0.0/0	aws-us-e1-app-01-sg

RDS > Databases > aws-us-e1-db-01

aws-us-e1-db-01

ModifyActions

Summary

DB identifier

aws-us-e1-db-01

CPU

4.43%

Status

Available

Class

db.t2.micro

Role

Instance

Current activity

0 Connections

Engine

MySQL Community

Region & AZ

us-east-1a

Connectivity & security

Monitoring

Logs & events

Configuration

Maintenance & backups

Tags

Connectivity & security

Endpoint & port

Endpoint

aws-us-e1-...us-east-1.rds.amazonaws.com

Port

3306

Networking

Availability Zone

us-east-1a

VPC

vpc-prod-1 (vpc-035b75ce48cdda98)

Subnet group

default-vpc-035b75ce48cdda98

Subnets

subnet-0f6d0ff0710d958b4

subnet-062d1568bf2872736

subnet-052ba4ca6774d231

Security

VPC security groups

sec-group-db-01 (sg-070f8428948d19078)

Active

Public accessibility

No

Certificate authority

rds-ca-2019

Certificate authority date

August 22, 2024, 22:38 (UTC+05:30)

sg-070f8428948d19078 - sec-group-db-01

Actions ▾

Details

Security group name
sec-group-db-01

Security group ID
sg-070f8428948d19078

Description
Created by RDS management console

VPC ID
vpc-035b75ce48cdda98 [↗](#)

Owner
476505616044

Inbound rules count
1 Permission entry

Outbound rules count
1 Permission entry

Inbound rules | Outbound rules | Tags

📘 You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

✕

Inbound rules (1/1)

🔄

Manage tags

Edit inbound rules

🔍 Filter security group rules

< 1 > ⚙

<input checked="" type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input checked="" type="checkbox"/>	-	sgr-08051a85c40a840...	IPv4	MySQL/Aurora	TCP	3306	10.0.0.0/24	-