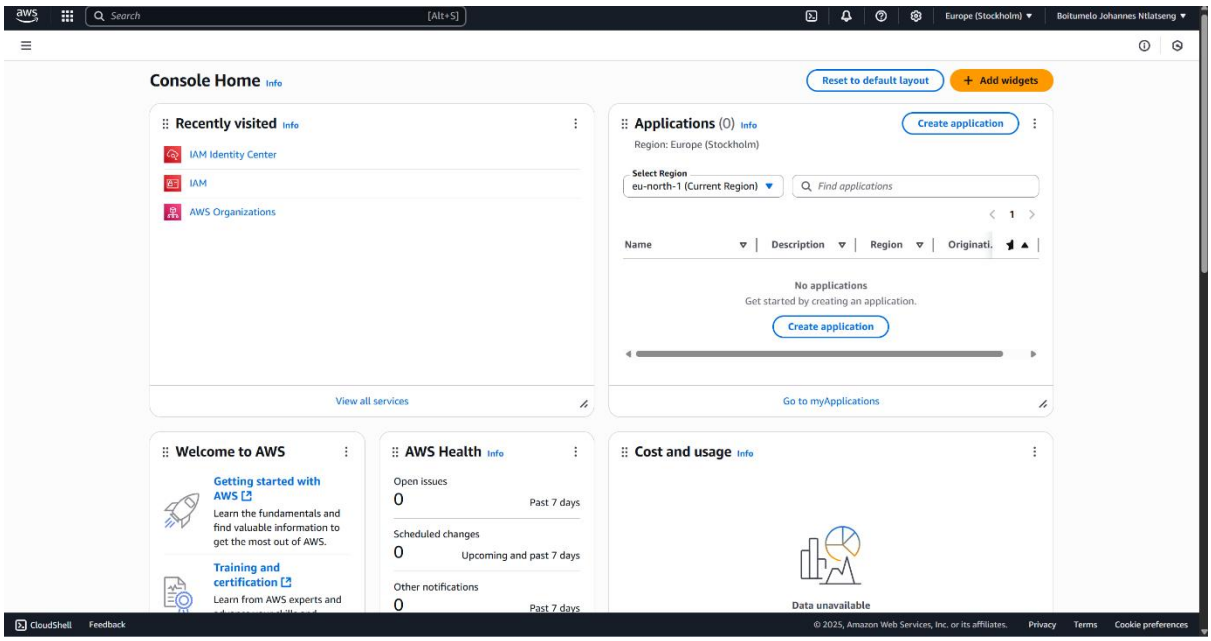
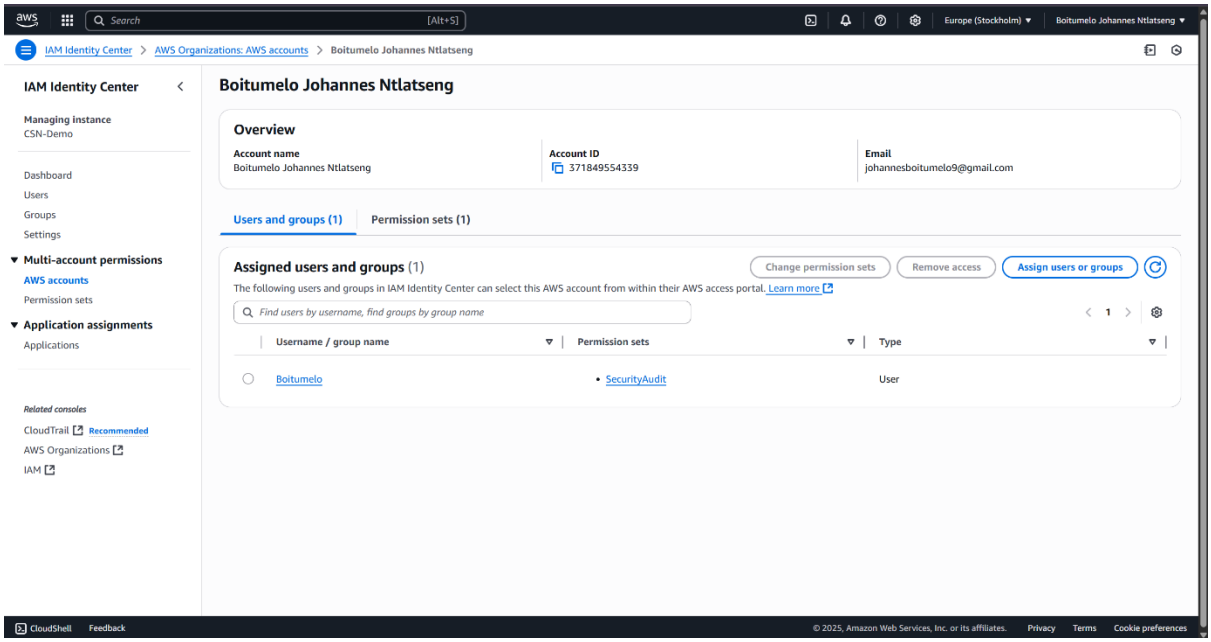
Boitumelo Johannes Ntlatseng

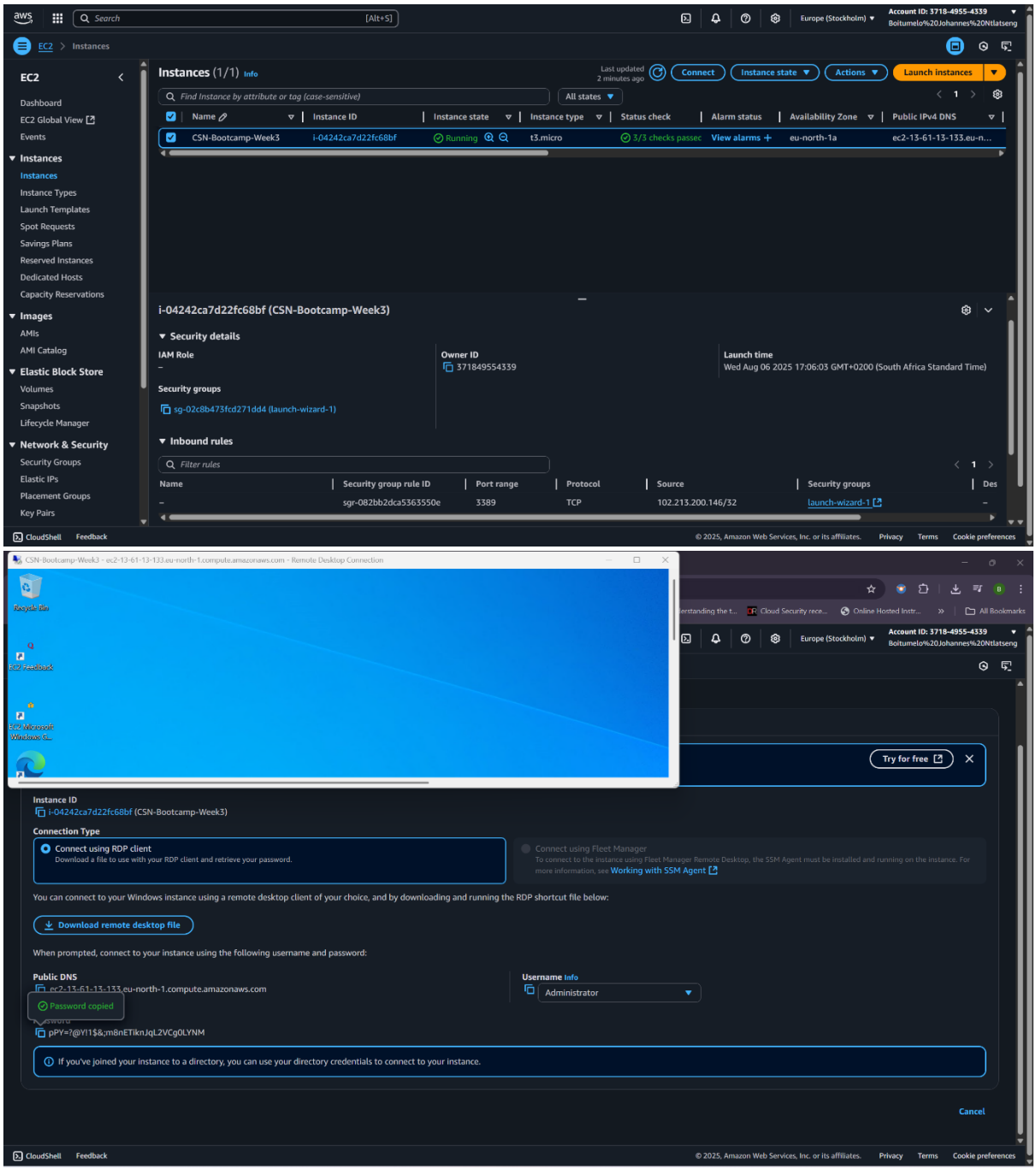
Week 1: Proof of my AWS free trial account.



Week 2: Creation of Identity and access management account and enforcing of roles.

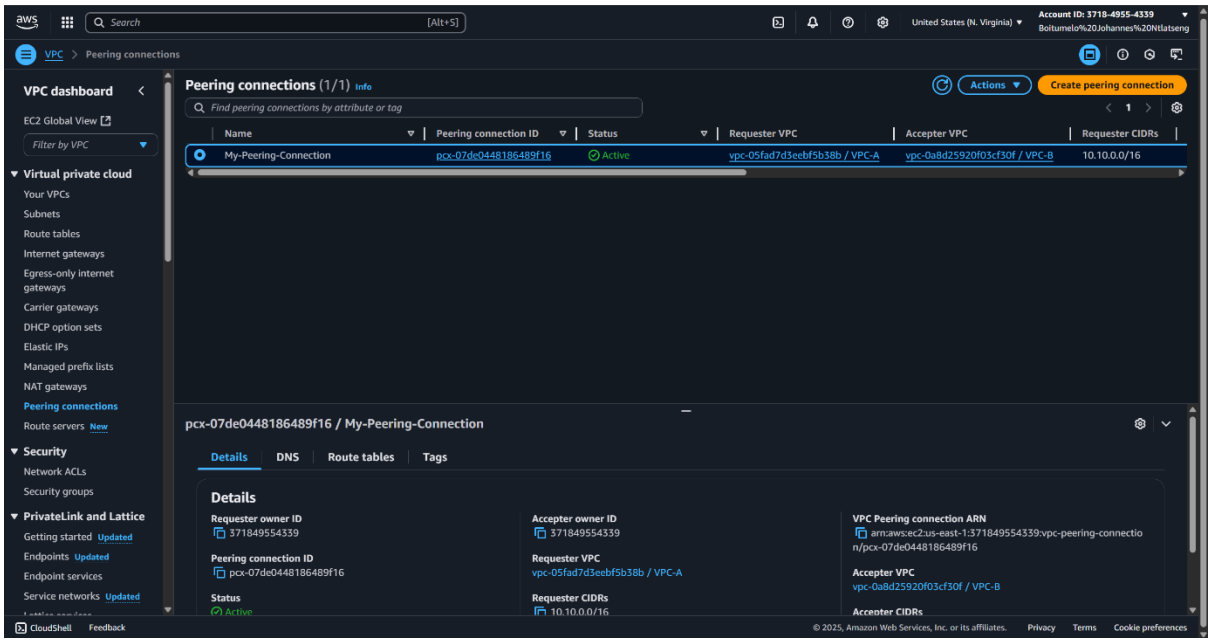


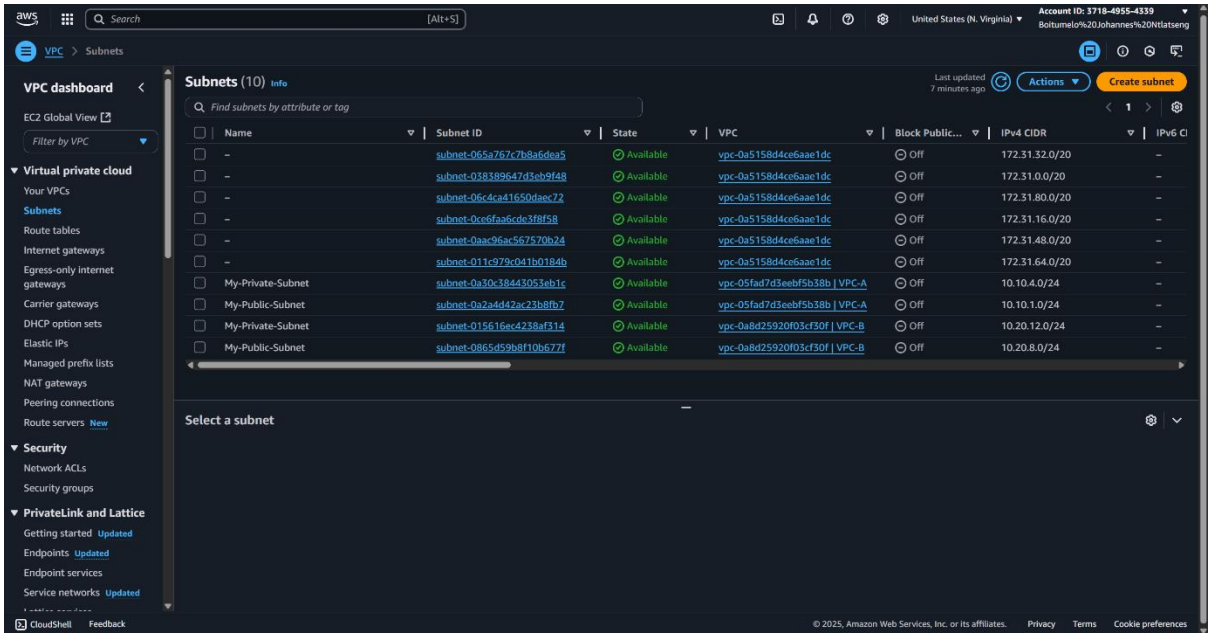
Week 3: Provisioned an EC2 instance and testing if it is deploying successfully.

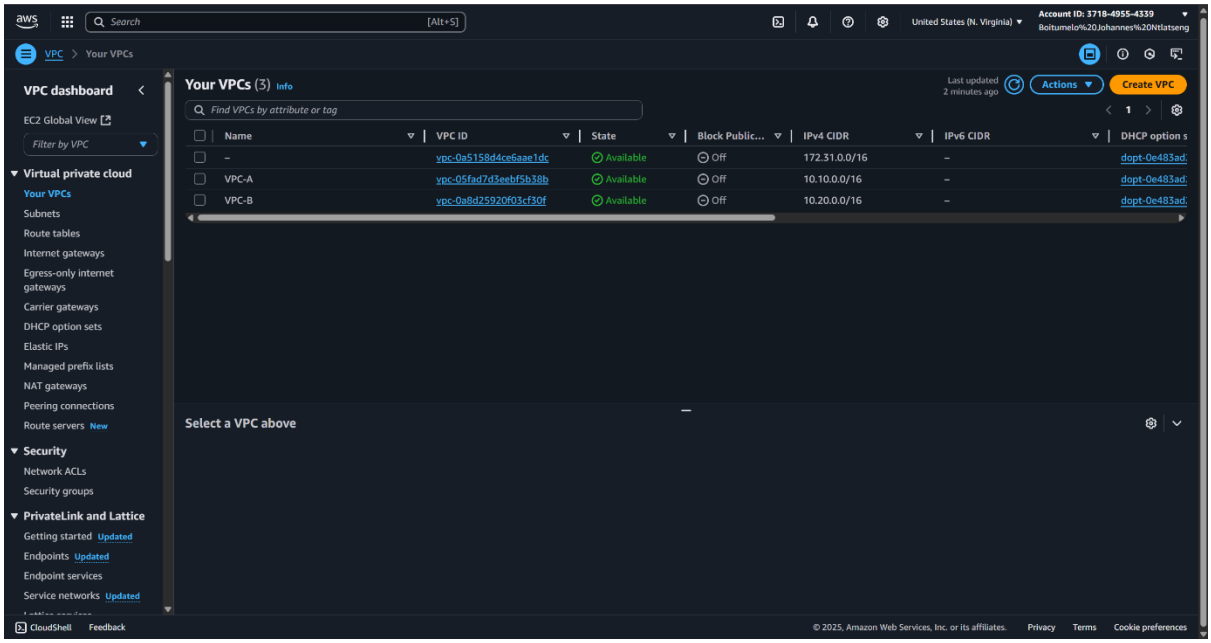


Week 4

Created two virtual private cloud both private and public which are named as VPC-A and VPC-B. connecting both of them with peering connection.






Search [Alt+S]
United States (N. Virginia)
Account ID: 3718-4955-4339
Boitumelo%20Johannes%20Ntlatseng
VPC > Your VPCs
VPC dashboard
EC2 Global View
Filter by VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
Carrier gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Route servers New
Security
Network ACLs
Security groups
PrivateLink and Lattice
Getting started Updated
Endpoints Updated
Endpoint services
Service networks Updated
Your VPCs (3) Info
Last updated 2 minutes ago
Actions
Create VPC
Find VPCs by attribute or tag
Name | VPC ID | State | Block Public... | IPv4 CIDR | IPv6 CIDR | DHCP option s
– | vpc-0a5158d4ce6aae1dc | Available | Off | 172.31.0.0/16 | – | dopt-0e483ad:
VPC-A | vpc-05fad7d3eebf5b38b | Available | Off | 10.10.0.0/16 | – | dopt-0e483ad:
VPC-B | vpc-0a8d25920f03cf30f | Available | Off | 10.20.0.0/16 | – | dopt-0e483ad:
Select a VPC above
CloudShell
Feedback
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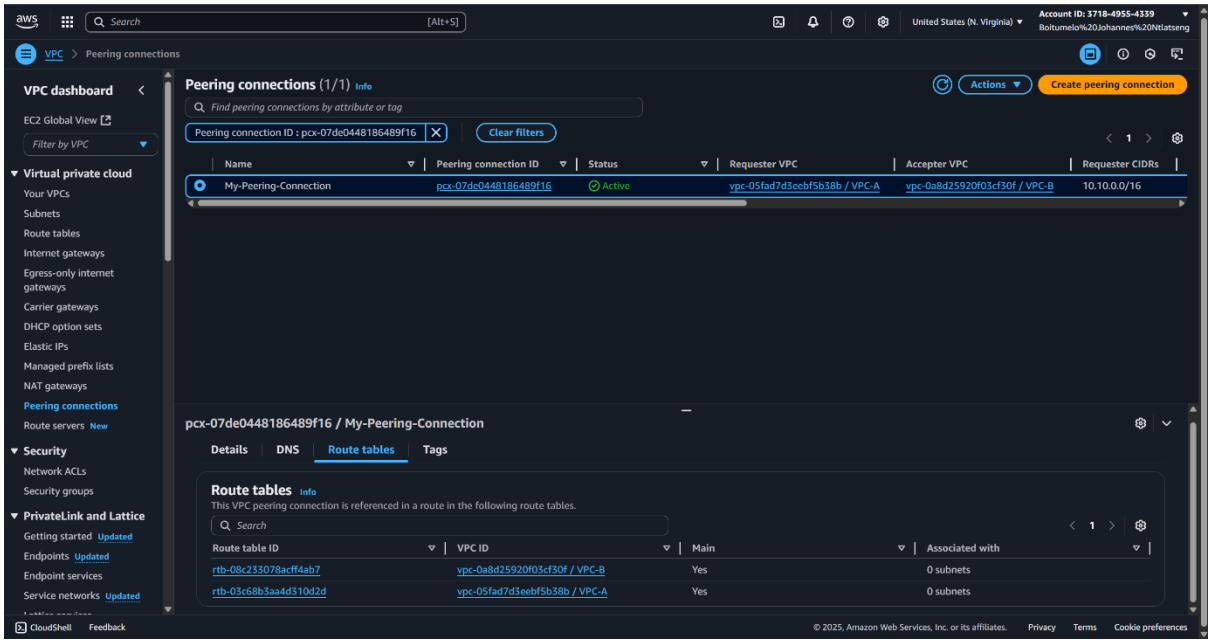
Privacy
Terms
Cookie preferences


Search [Alt+S]
United States (N. Virginia)
Account ID: 3718-4955-4339
Boitumelo%20Johannes%20Ntlatseng
VPC > Peering connections
VPC dashboard
EC2 Global View
Filter by VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
Carrier gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Route servers New
Security
Network ACLs
Security groups
PrivateLink and Lattice
Getting started Updated
Endpoints Updated
Endpoint services
Service networks Updated
Peering connections (1/1) Info
Actions
Create peering connection
Find peering connections by attribute or tag
Peering connection ID : pcx-07de0448186489f16
Clear filters
Name | Peering connection ID | Status | Requester VPC | Accepter VPC | Requester CIDRs
My-Peering-Connection | pcx-07de0448186489f16 | Active | vpc-05fad7d3eebf5b38b / VPC-A | vpc-0a8d25920f03cf30f / VPC-B | 10.10.0.0/16
pcx-07de0448186489f16 / My-Peering-Connection
Details
DNS
Route tables
Tags
Route tables Info
This VPC peering connection is referenced in a route in the following route tables.
Search
Route table ID | VPC ID | Main | Associated with
rtb-08c233078acff4ab7 | vpc-0a8d25920f03cf30f / VPC-B | Yes | 0 subnets
rtb-03c68b3aa4d310d2d | vpc-05fad7d3eebf5b38b / VPC-A | Yes | 0 subnets
CloudShell
Feedback
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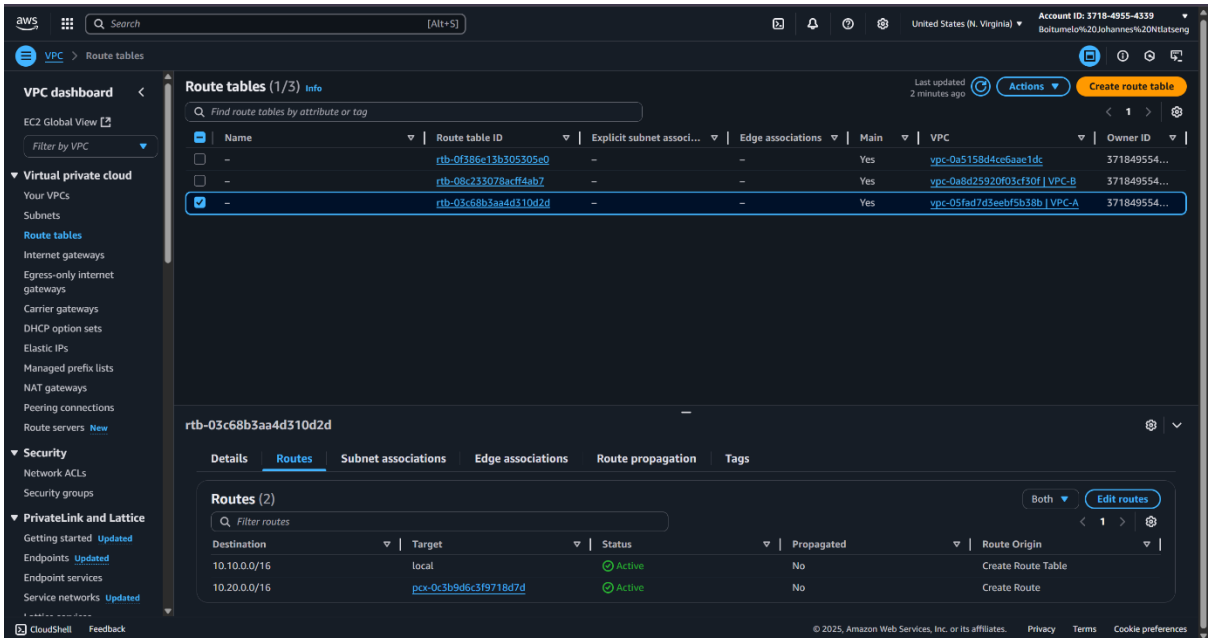
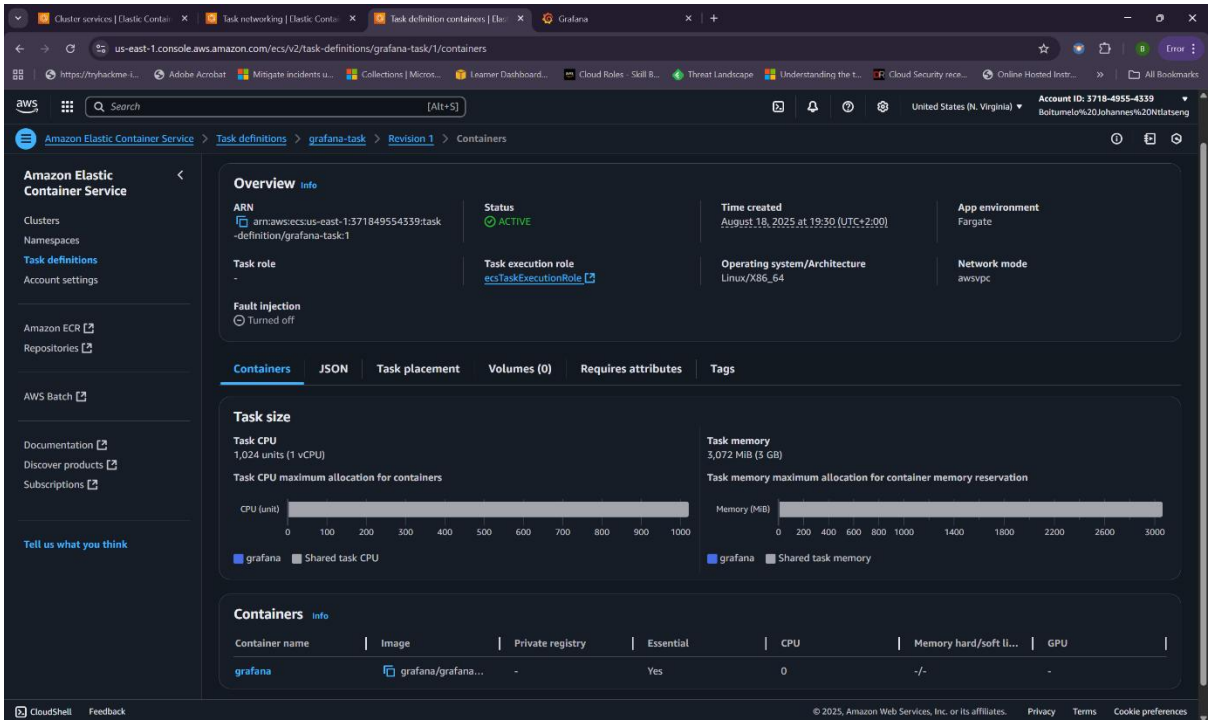
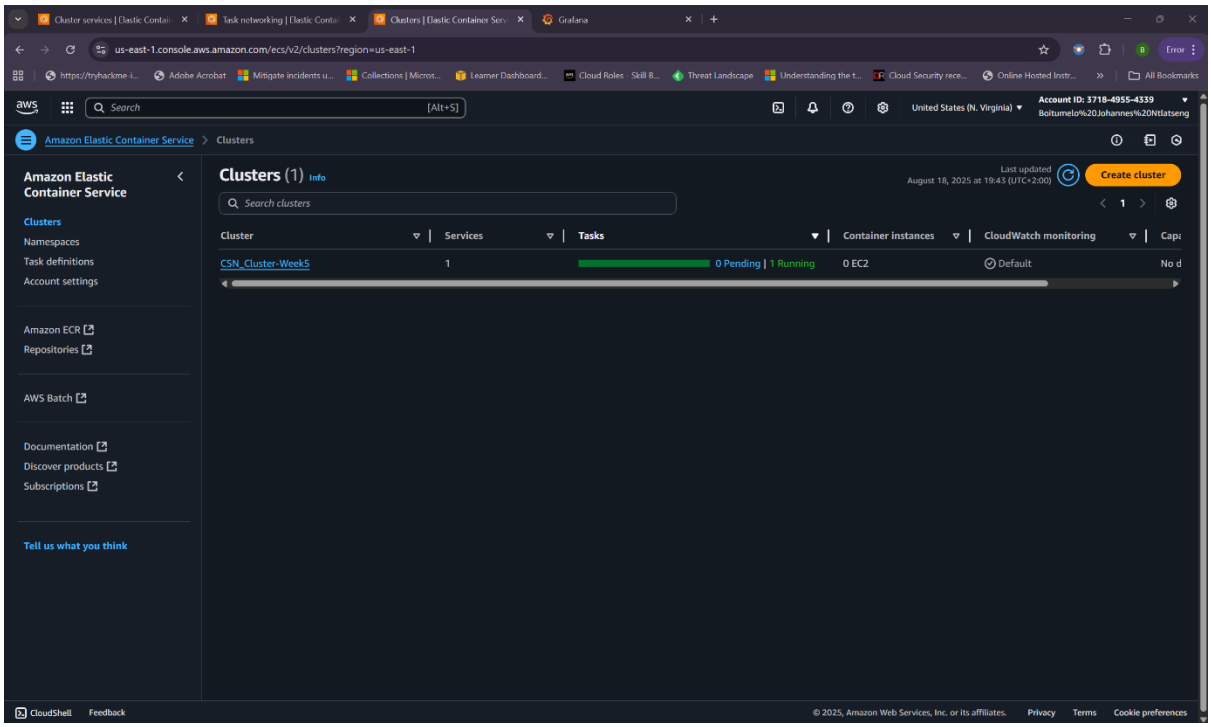
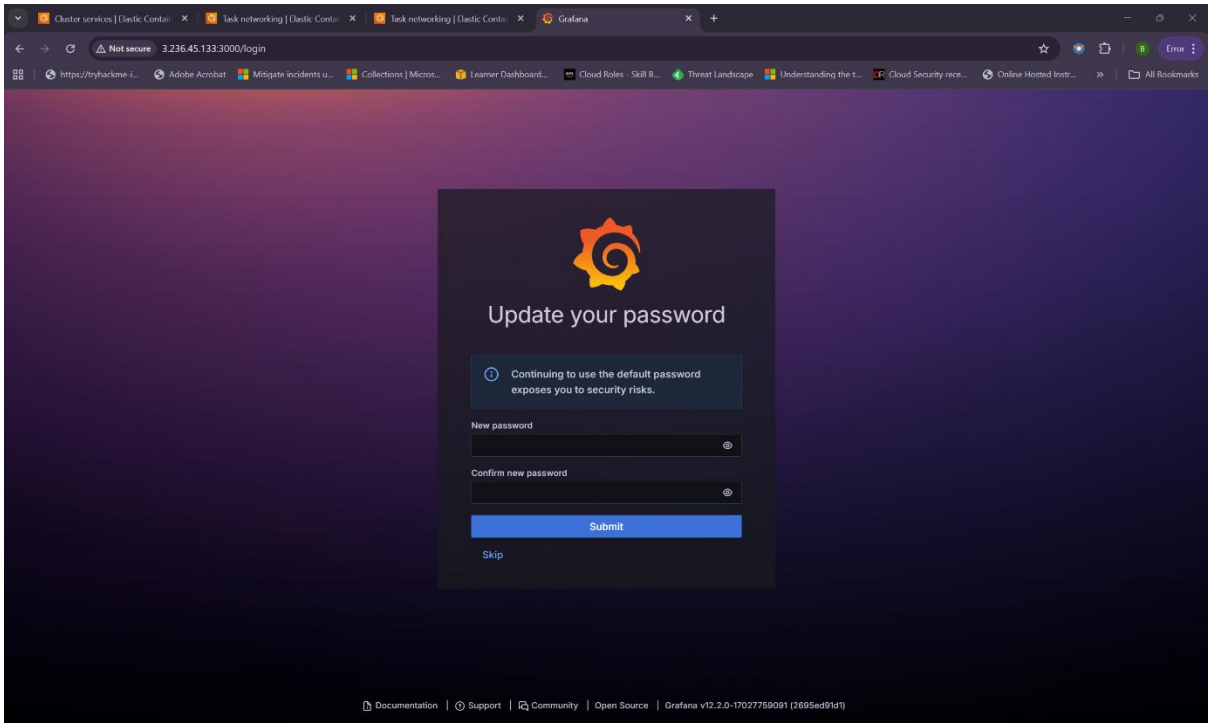
Privacy
Terms
Cookie preferences

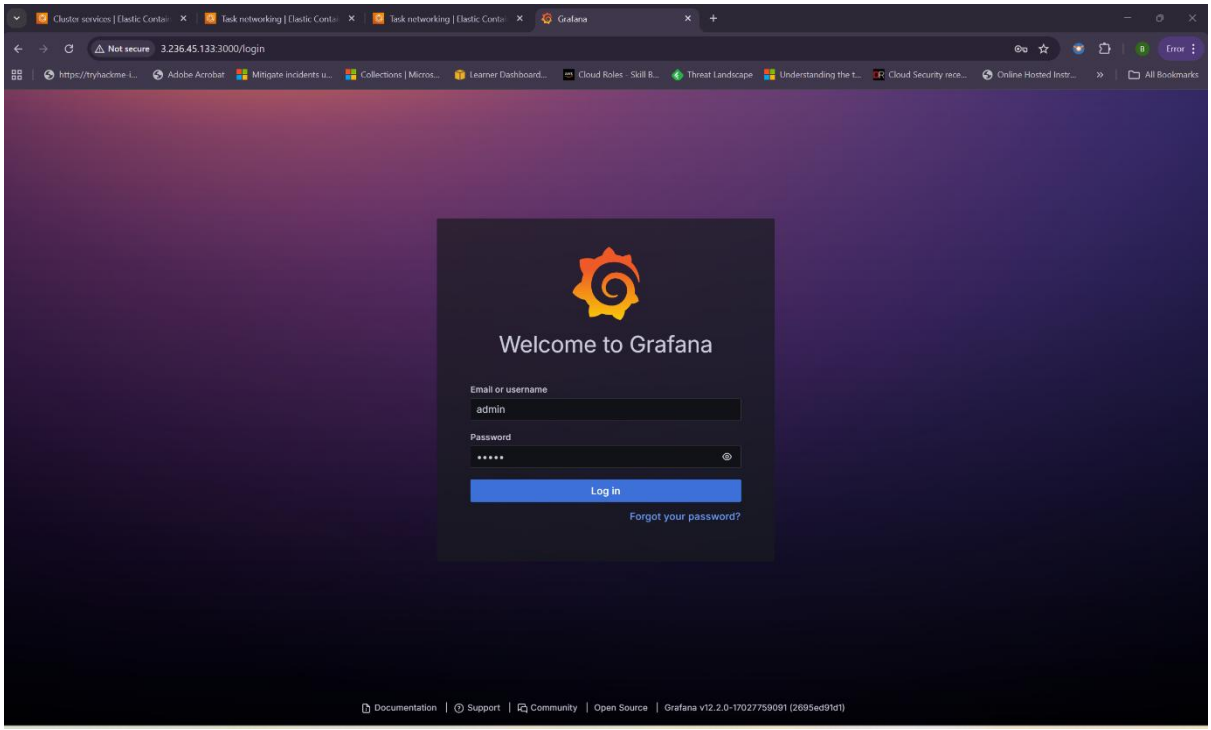


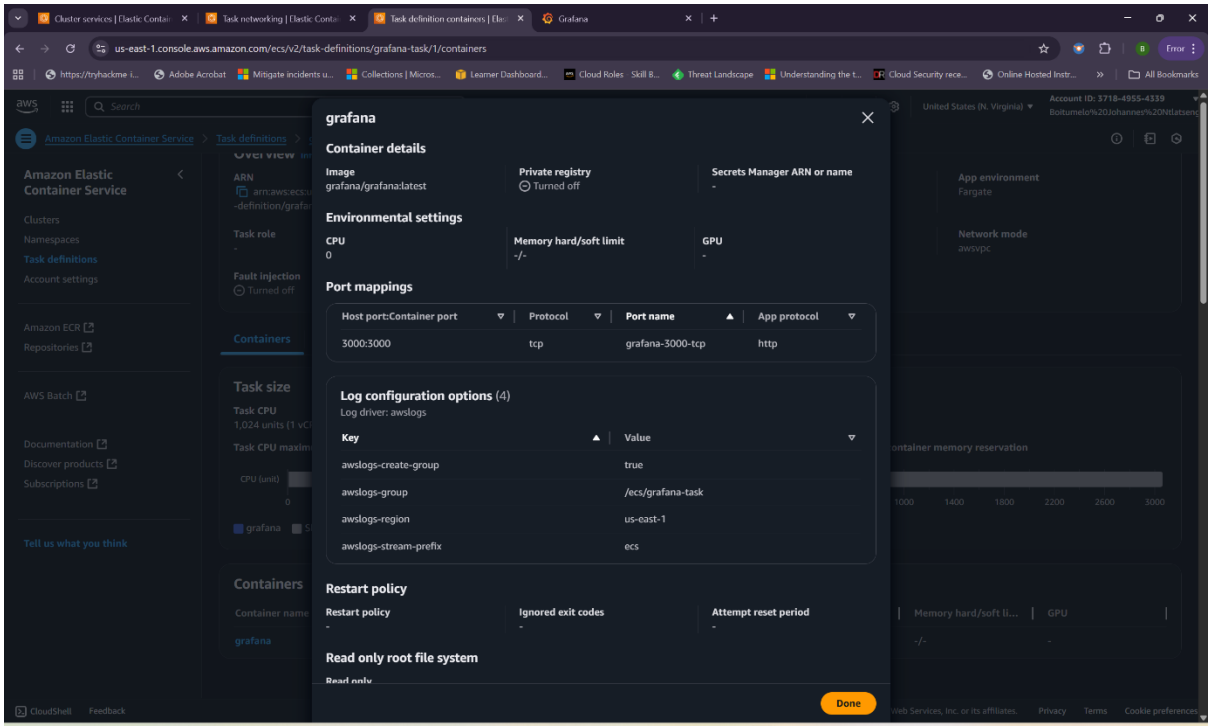
Week 5: Deployed Grafana using Amazon ECS (Elastic Container Service) with Fargate launch type. Created task definition that exposes port 3000 and run it in a public subnet.


Amazon Elastic Container Service
Task definitions
grafana-task
Revision 1
Containers
Overview Info
ARN
arn:aws:ecs:us-east-1:371849554339:task-definition/grafana-task:1
Status
ACTIVE
Time created
August 18, 2025 at 19:30 (UTC+2:00)
App environment
Fargate
Task role
-
Task execution role
ecsTaskExecutionRole
Operating system/Architecture
Linux/X86_64
Network mode
awsvpc
Fault injection
Turned off
Containers
JSON
Task placement
Volumes (0)
Requires attributes
Tags
Task size
Task CPU
1,024 units (1 vCPU)
Task memory
3,072 MiB (3 GB)
Task CPU maximum allocation for containers
Task memory maximum allocation for container memory reservation
CPU (unit)
Memory (MiB)
grafana
Shared task CPU
Shared task memory
Containers Info
Container name
Image
Private registry
Essential
CPU
Memory hard/soft li...
GPU
grafana
grafana/grafana...
Yes
0
-/-

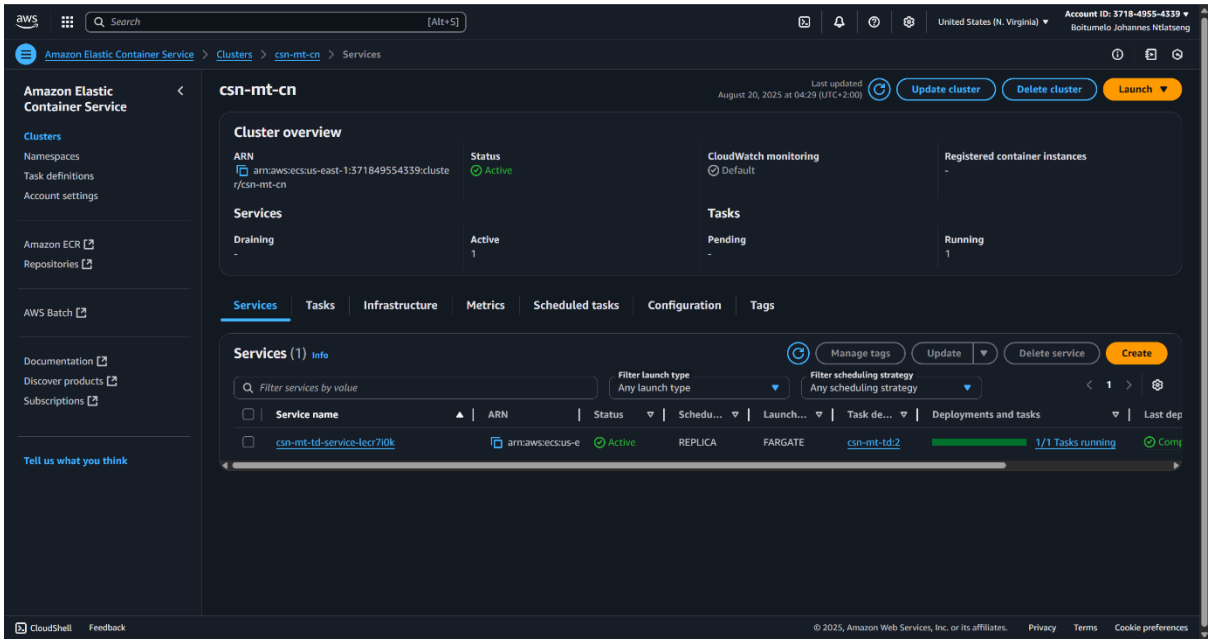

Amazon Elastic Container Service
Clusters
Clusters (1) Info
Last updated
August 18, 2025 at 19:43 (UTC+2:00)
Create cluster
Search clusters
Cluster
Services
Tasks
Container instances
CloudWatch monitoring
CSN_Cluster-Week5
1
0 Pending | 1 Running
0 EC2
Default


Not secure
3.236.45.133:3000/login
Update your password
Continuing to use the default password exposes you to security risks.
New password
Confirm new password
Submit
Skip
Documentation | Support | Community | Open Source | Grafana v12.2.0-17027759091 (2695ed91d1)


Not secure
3.236.45.133:3000/login
Welcome to Grafana
Email or username
admin
Password
Log in
Forgot your password?
Documentation | Support | Community | Open Source | Grafana v12.2.0-17027759091 (2695ed91d1)



Week 6: Deployed Metabase on Amazon ECS using Fargate launch type and connected it to a PostgreSQL database hosted on Amazon Relational Database Service. ECS and RDS are in the same VPC, the RDS allows inbound traffic on port 5432 from the ECS task.


Search [Alt+S]
United States (N. Virginia)
Account ID: 3718-4955-4339
Boitumelo Johannes Ntlatseng
Amazon Elastic Container Service > Clusters > csn-mt-cn > Services
Amazon Elastic Container Service
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Discover products
Subscriptions
Tell us what you think
csn-mt-cn
Last updated August 20, 2025 at 04:29 (UTC+2:00)
Update cluster
Delete cluster
Launch
Cluster overview
ARN
arn:aws:ecs:us-east-1:371849554339:cluster/csn-mt-cn
Status
Active
CloudWatch monitoring
Default
Registered container instances
-
Services
Draining
-
Active
1
Tasks
Pending
-
Running
1
Services
Tasks
Infrastructure
Metrics
Scheduled tasks
Configuration
Tags
Services (1) Info
Manage tags
Update
Delete service
Create
Filter services by value
Filter launch type
Any launch type
Filter scheduling strategy
Any scheduling strategy
Service name
ARN
Status
Schedu...
Launch...
Task de...
Deployments and tasks
Last dep
csn-mt-td-service-lecr7i0k
arn:aws:ecs:us-e
Active
REPLICA
FARGATE
csn-mt-td:2
1/1 Tasks running
CloudShell
Feedback
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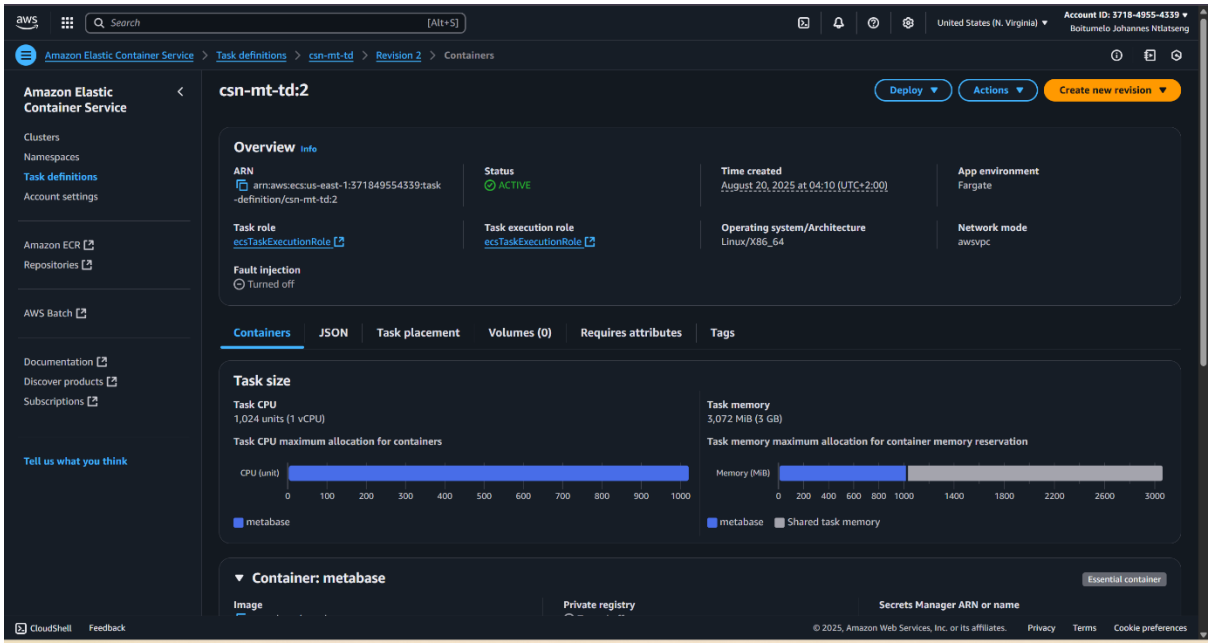
Privacy
Terms
Cookie preferences


Search [Alt+S]
United States (N. Virginia)
Account ID: 3718-4955-4339
Boitumelo Johannes Ntlatseng
Amazon Elastic Container Service > Task definitions > csn-mt-td > Revision 2 > Containers
Amazon Elastic Container Service
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Discover products
Subscriptions
Tell us what you think
csn-mt-td:2
Deploy
Actions
Create new revision
Overview Info
ARN
arn:aws:ecs:us-east-1:371849554339:task-definition/csn-mt-td:2
Status
ACTIVE
Time created
August 20, 2025 at 04:10 (UTC+2:00)
App environment
Fargate
Task role
ecsTaskExecutionRole
Task execution role
ecsTaskExecutionRole
Operating system/Architecture
Linux/X86_64
Network mode
awsvpc
Fault injection
Turned off
Containers
JSON
Task placement
Volumes (0)
Requires attributes
Tags
Task size
Task CPU
1,024 units (1 vCPU)
Task CPU maximum allocation for containers
CPU (unit)
0 100 200 300 400 500 600 700 800 900 1000
metabase
Task memory
3,072 MiB (3 GB)
Task memory maximum allocation for container memory reservation
Memory (MiB)
0 200 400 600 800 1000 1400 1800 2200 2600 3000
metabase
Shared task memory
Container: metabase
Essential container
Image
Private registry
Secrets Manager ARN or name
CloudShell
Feedback
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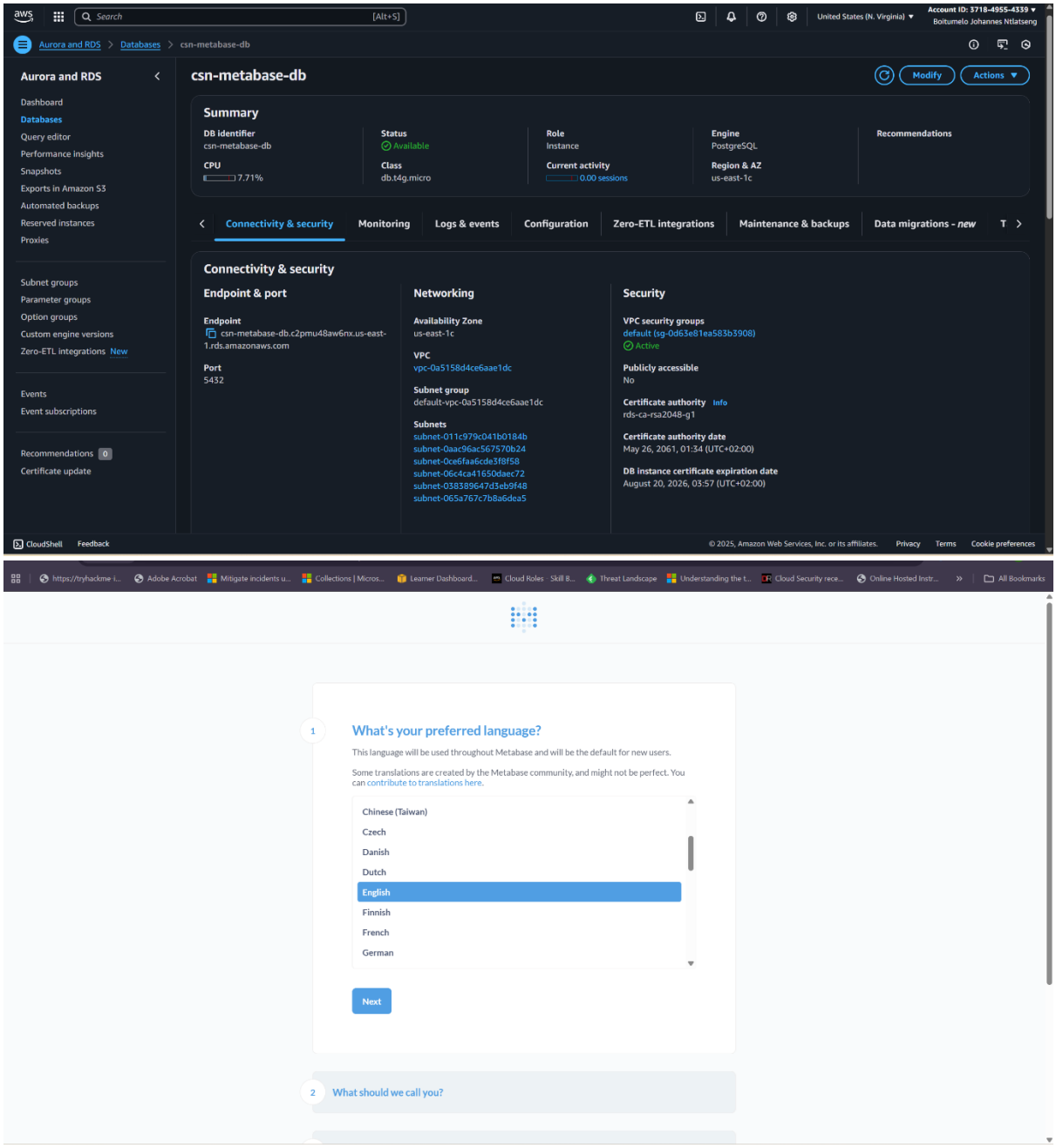
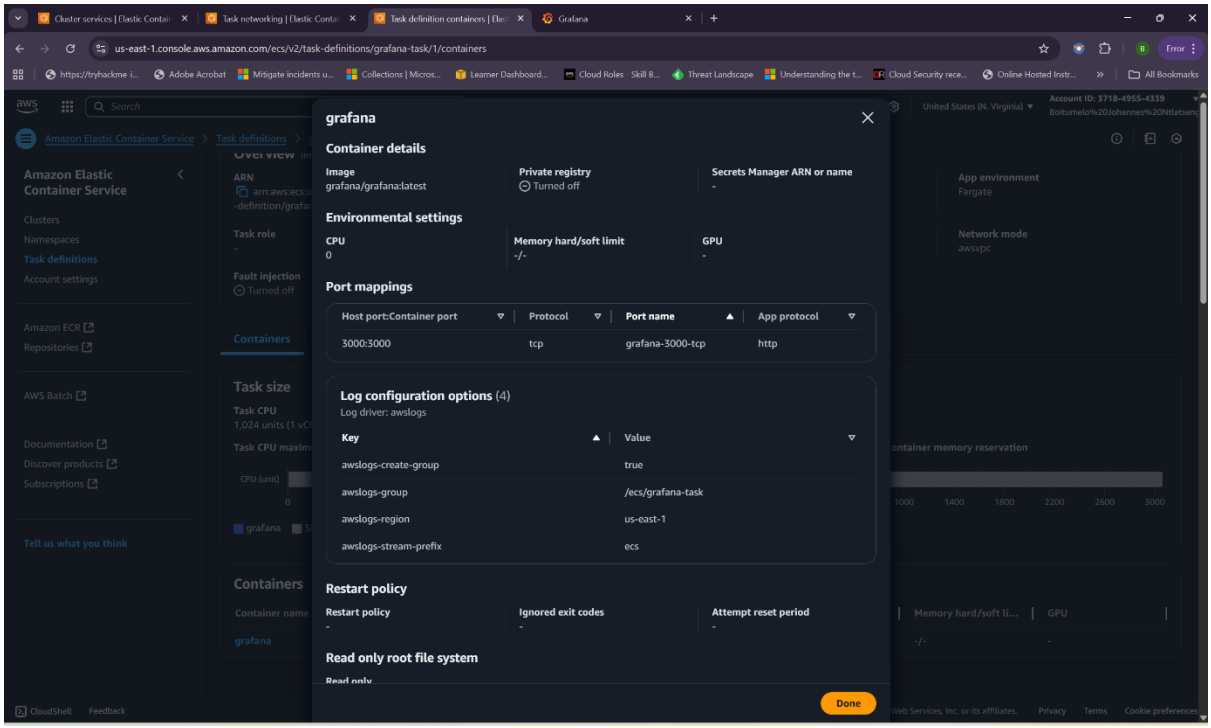
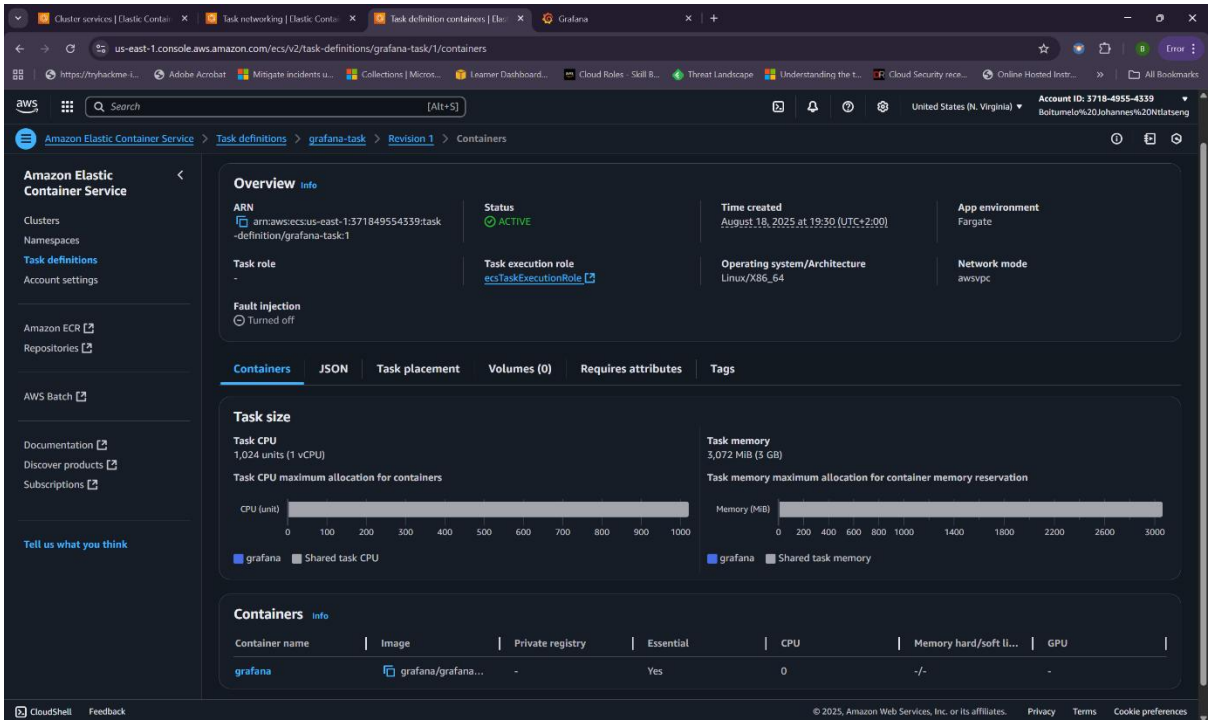
Privacy
Terms
Cookie preferences



Week 7: Created CloudWatch dashboard with widgets for CPUUtilization and MemoryUtilization to monitor the ECS task in real time.


grafana
Container details
Image
grafana/grafana:latest
Private registry
Turned off
Secrets Manager ARN or name
-
Environmental settings
CPU
0
Memory hard/soft limit
-/-
GPU
-
Port mappings
Host port:Container port
Protocol
Port name
App protocol
3000:3000
tcp
grafana-3000-tcp
http
Log configuration options (4)
Log driver: awslogs
Key
Value
awslogs-create-group
true
awslogs-group
/ecs/grafana-task
awslogs-region
us-east-1
awslogs-stream-prefix
ecs
Restart policy
Restart policy
Ignored exit codes
Attempt reset period
Read only root file system
Done


Amazon Elastic Container Service
Task definitions
grafana-task
Revision 1
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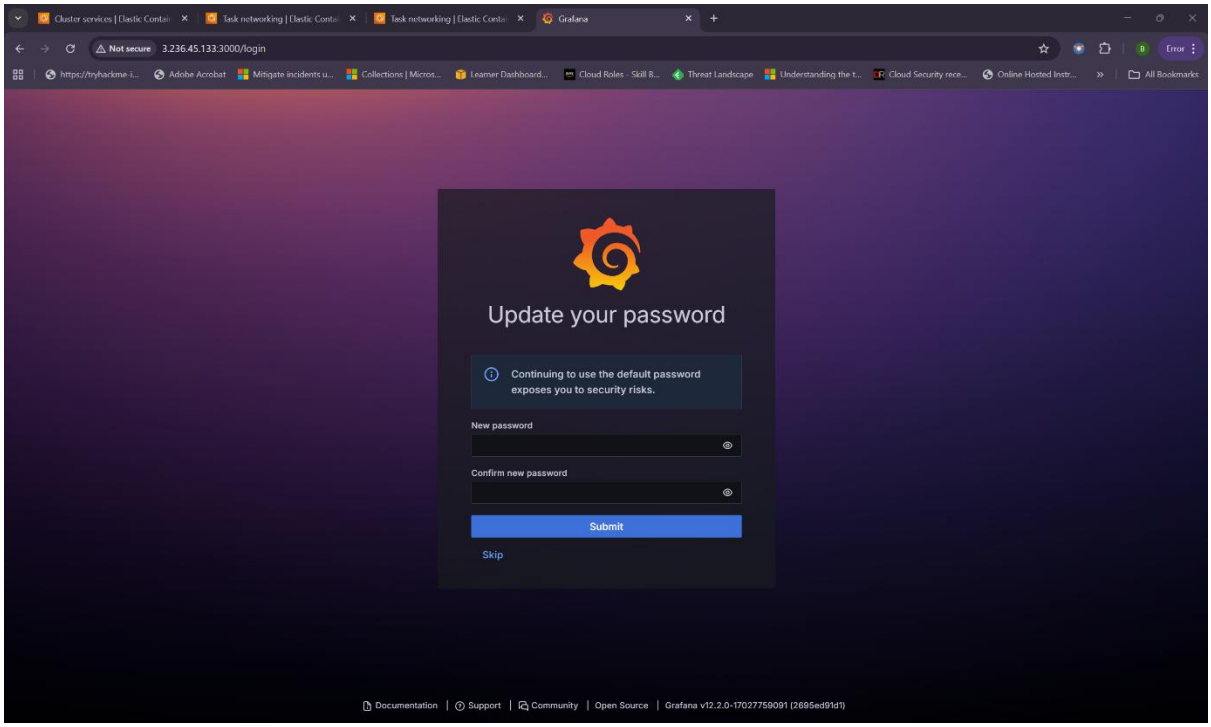
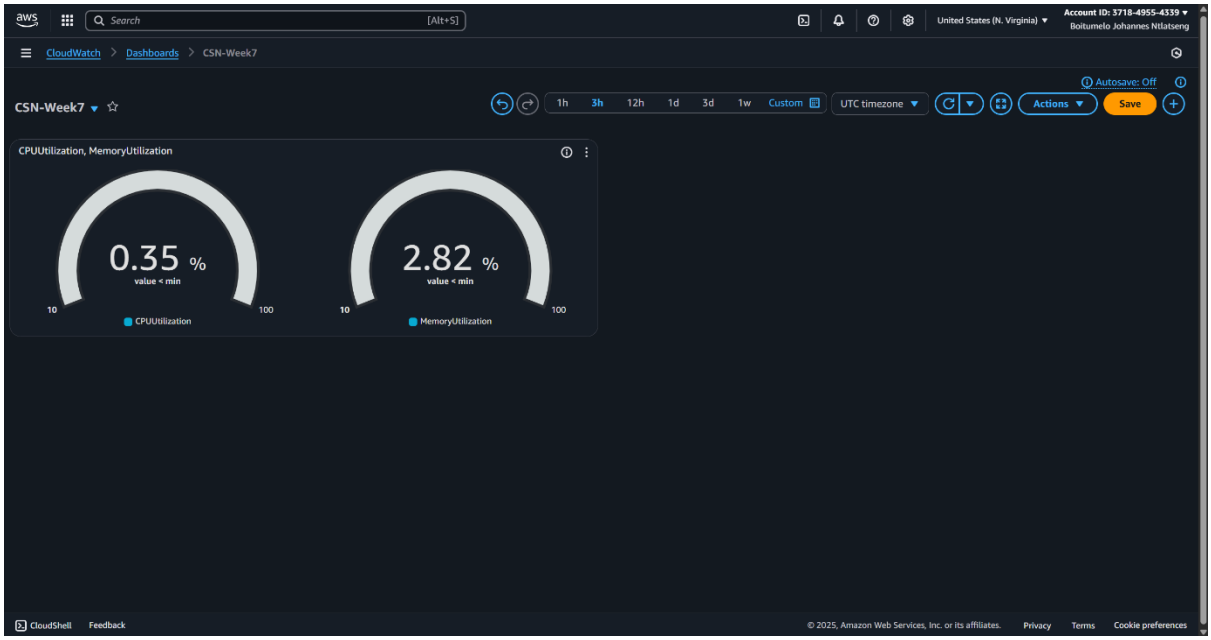
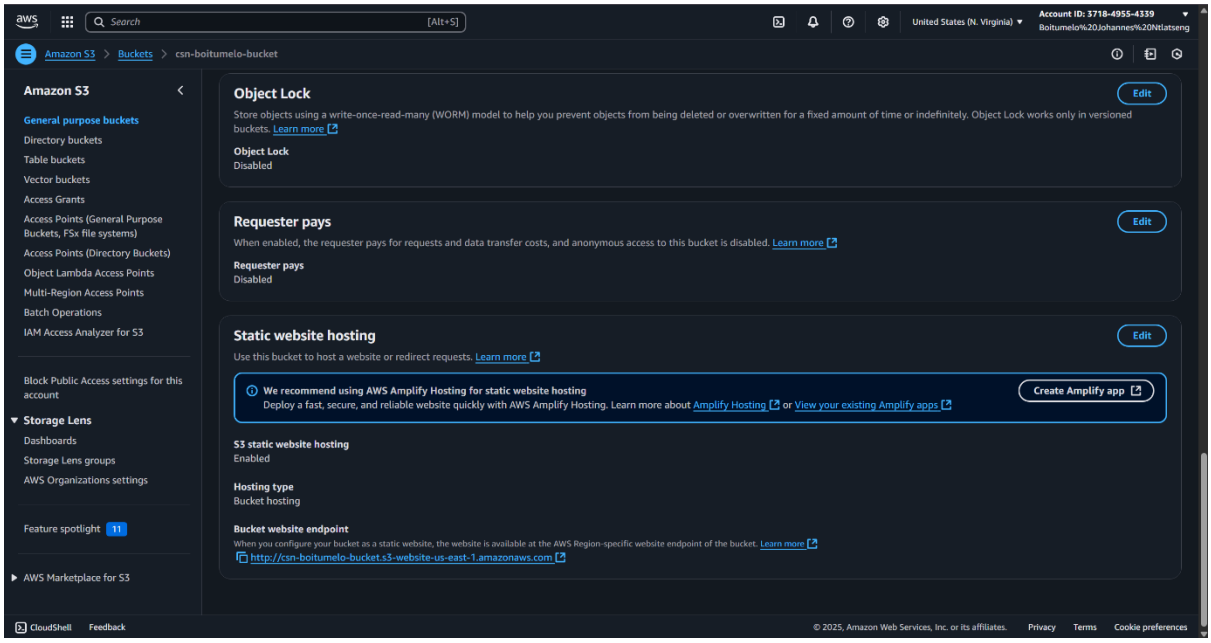
Overview Info
ARN
arn:aws:ecs:us-east-1:371849554339:task-definition/grafana-task:1
Status
ACTIVE
Time created
August 18, 2025 at 19:30 (UTC+2:00)
App environment
Fargate
Task role
-
Task execution role
ecsTaskExecutionRole
Operating system/Architecture
Linux/X86_64
Network mode
awsvpc
Fault injection
Turned off
Containers
JSON
Task placement
Volumes (0)
Requires attributes
Tags
Task size
Task CPU
1,024 units (1 vCPU)
Task memory
3,072 MiB (3 GB)
Task CPU maximum allocation for containers
Task memory maximum allocation for container memory reservation
CPU (unit)
Memory (MiB)
grafana
Shared task CPU
Shared task memory
Containers Info
Container name
Image
Private registry
Essential
CPU
Memory hard/soft li...
GPU
grafana
grafana/grafana...
Yes
0
-/-





Week 8: Deployed static website using Amazon S3 and CloudFront to make my website secure. Configured the bucket for public access by adding appropriate bucket policy.


Search [Alt+S]
United States (N. Virginia)
Account ID: 3718-4955-4339
Boitumelo%20Johannes%20Ntlatseng
Amazon S3 > Buckets > csn-boitumelo-bucket
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
Feature spotlight 11
AWS Marketplace for S3
Object Lock
Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. Object Lock works only in versioned buckets. Learn more
Object Lock
Disabled
Edit
Requester pays
When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. Learn more
Requester pays
Disabled
Edit
Static website hosting
Use this bucket to host a website or redirect requests. Learn more
We recommend using AWS Amplify Hosting for static website hosting
Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. Learn more about Amplify Hosting or View your existing Amplify apps
Create Amplify app
S3 static website hosting
Enabled
Hosting type
Bucket hosting
Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more
http://csn-boitumelo-bucket.s3-website-us-east-1.amazonaws.com
Edit
CloudShell
Feedback
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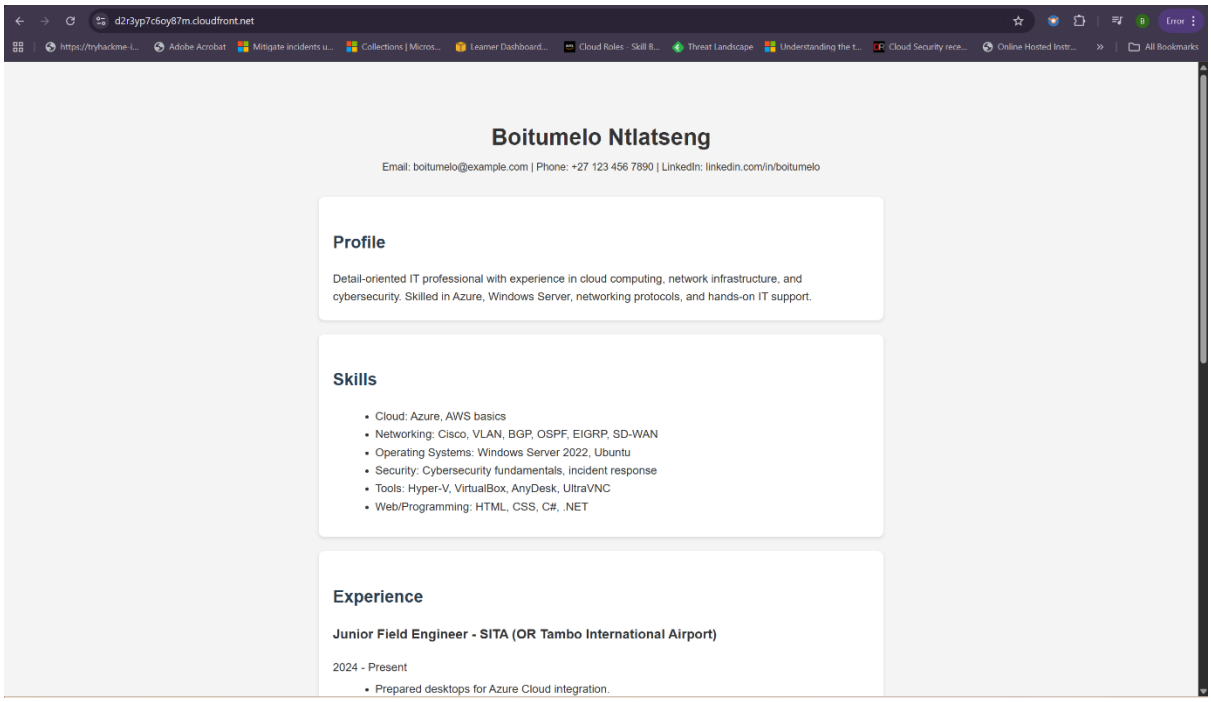
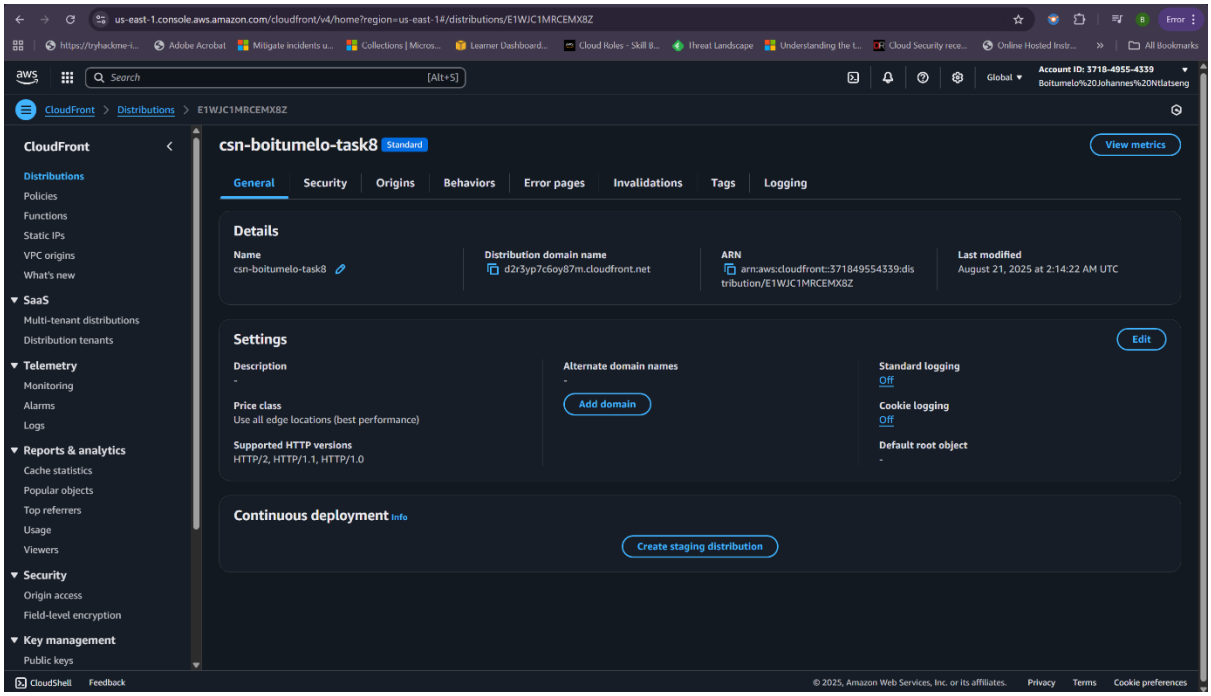
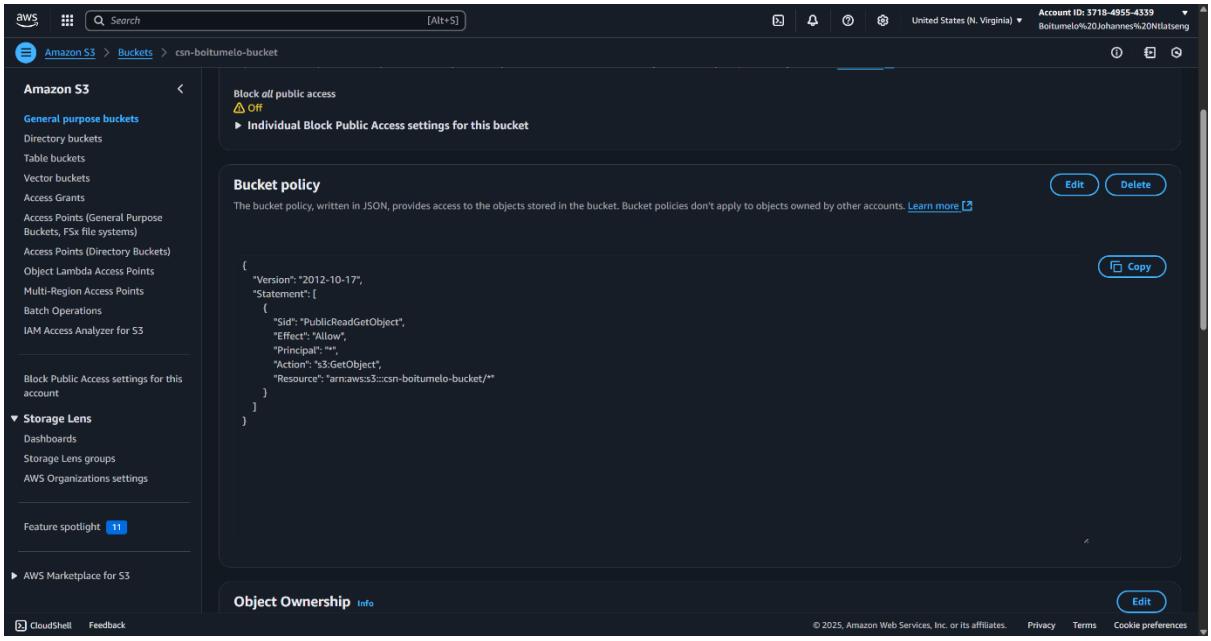
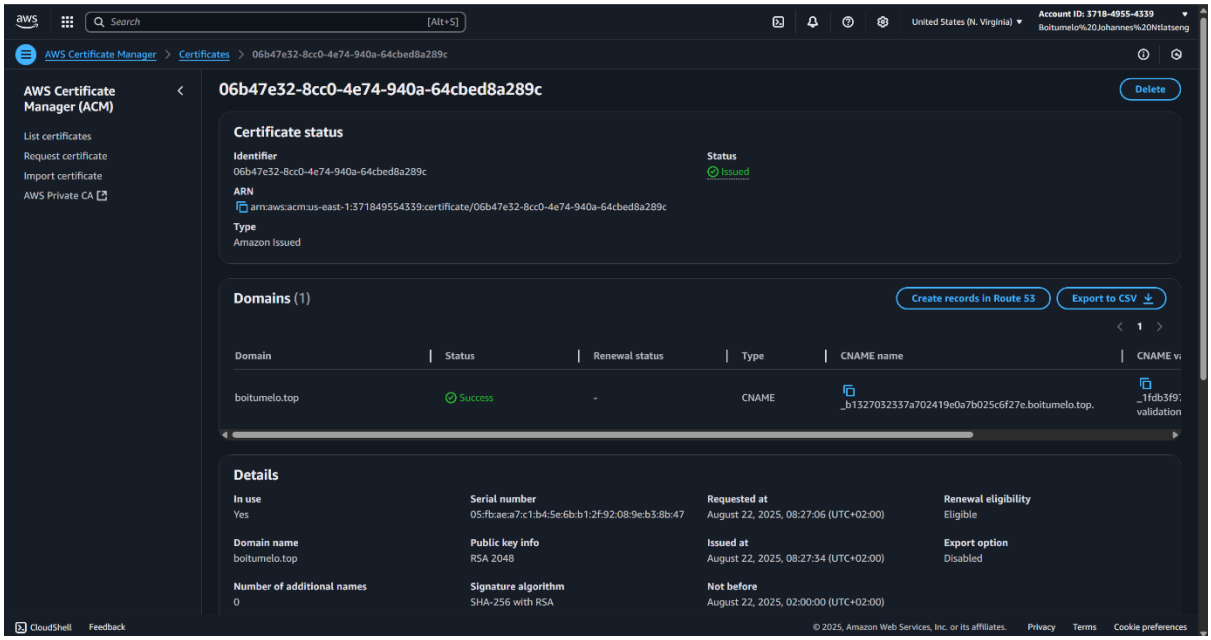
Privacy
Terms
Cookie preferences


d2r3yp7c6oy87m.cloudfront.net
Error
https://tryhackme-i...
Adobe Acrobat
Mitigate incidents u...
Collections | Micros...
Learner Dashboard...
Cloud Roles - Skill B...
Threat Landscape
Understanding the t...
Cloud Security rece...
Online Hosted Instr...
All Bookmarks
Boitumelo Ntlatseng
Email: boitumelo@example.com | Phone: +27 123 456 7890 | LinkedIn: linkedin.com/in/boitumelo
Profile
Detail-oriented IT professional with experience in cloud computing, network infrastructure, and cybersecurity. Skilled in Azure, Windows Server, networking protocols, and hands-on IT support.
Skills
Cloud: Azure, AWS basics
Networking: Cisco, VLAN, BGP, OSPF, EIGRP, SD-WAN
Operating Systems: Windows Server 2022, Ubuntu
Security: Cybersecurity fundamentals, incident response
Tools: Hyper-V, VirtualBox, AnyDesk, UltraVNC
Web/Programming: HTML, CSS, C#, .NET
Experience
Junior Field Engineer - SITA (OR Tambo International Airport)
2024 - Present
Prepared desktops for Azure Cloud integration.





Week 9: I registered a domain and connected it to AWS Route 53 by updating the nameservers with those from my hosted zone. Created CloudFront distribution that serves my S3 static website. Requested free SSL certificate using Amazon Certificate Manager.


Search [Alt+S]
United States (N. Virginia)
Account ID: 3718-4955-4339
Boitumelo%20Johannes%20Ntlatseng
AWS Certificate Manager > Certificates > 06b47e32-8cc0-4e74-940a-64cbed8a289c
AWS Certificate Manager (ACM)
List certificates
Request certificate
Import certificate
AWS Private CA
06b47e32-8cc0-4e74-940a-64cbed8a289c
Delete
Certificate status
Identifier
06b47e32-8cc0-4e74-940a-64cbed8a289c
Status
Issued
ARN
arn:aws:acm:us-east-1:371849554339:certificate/06b47e32-8cc0-4e74-940a-64cbed8a289c
Type
Amazon Issued
Domains (1)
Create records in Route 53
Export to CSV
Domain
Status
Renewal status
Type
CNAME name
CNAME va
boitumelo.top
Success
-
CNAME
_b1327032337a702419e0a7b025c6f27e.boitumelo.top.
_1fdb3f97
validation
Details
In use
Yes
Serial number
05:fb:ae:a7:c1:b4:5e:6b:b1:2f:92:08:9e:b3:8b:47
Requested at
August 22, 2025, 08:27:06 (UTC+02:00)
Renewal eligibility
Eligible
Domain name
boitumelo.top
Public key info
RSA 2048
Issued at
August 22, 2025, 08:27:34 (UTC+02:00)
Export option
Disabled
Number of additional names
0
Signature algorithm
SHA-256 with RSA
Not before
August 22, 2025, 02:00:00 (UTC+02:00)
CloudShell
Feedback
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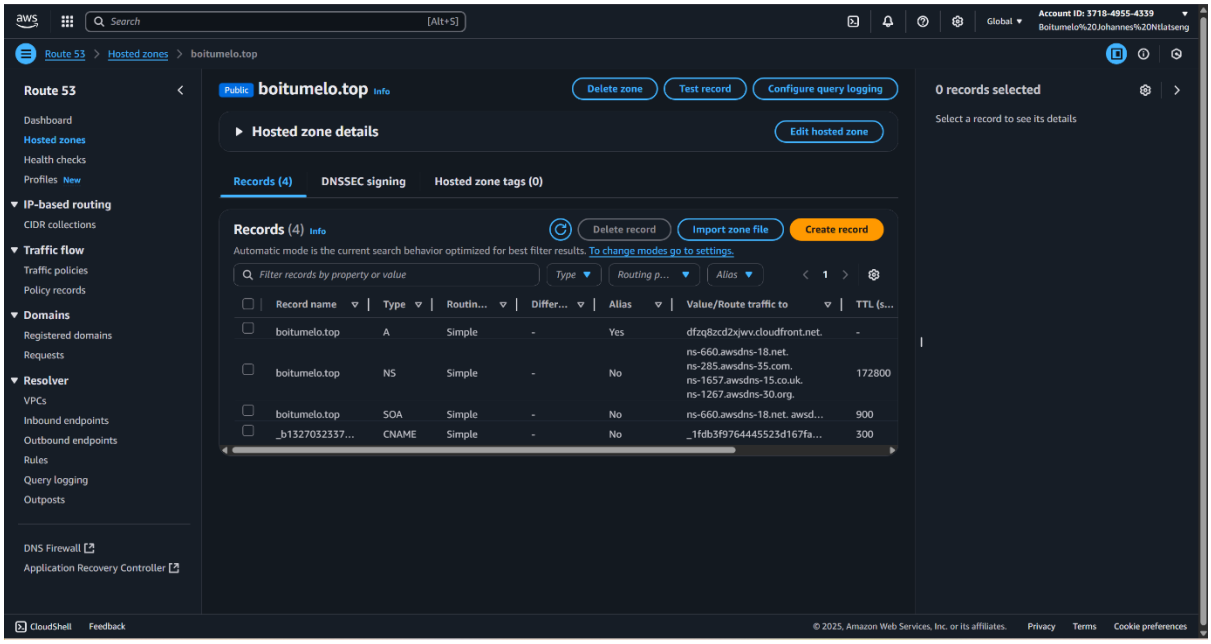
Search [Alt+S]
Global
Account ID: 3718-4955-4339
Boitumelo%20Johannes%20Ntlatseng
Route 53 > Hosted zones > boitumelo.top
Route 53
Dashboard
Hosted zones
Health checks
Profiles New
IP-based routing
CIDR collections
Traffic flow
Traffic policies
Policy records
Domains
Registered domains
Requests
Resolver
VPCs
Inbound endpoints
Outbound endpoints
Rules
Query logging
Outposts
DNS Firewall
Application Recovery Controller
Public boitumelo.top Info
Delete zone
Test record
Configure query logging
Hosted zone details
Edit hosted zone
Records (4)
DNSSEC signing
Hosted zone tags (0)
Records (4) Info
Delete record
Import zone file
Create record
Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.
Filter records by property or value
Type
Routing p...
Alias
Record name
Type
Routin...
Differ...
Alias
Value/Route traffic to
TTL (s...
boitumelo.top
A
Simple
-
Yes
dfzq8zcd2xjwv.cloudfront.net.
-
boitumelo.top
NS
Simple
-
No
ns-660.awsdns-18.net.
ns-285.awsdns-35.com.
ns-1657.awsdns-15.co.uk.
ns-1267.awsdns-30.org.
172800
boitumelo.top
SOA
Simple
-
No
ns-660.awsdns-18.net. awsd...
900
_b1327032337...
CNAME
Simple
-
No
_1fdb3f9764445523d167fa...
300
0 records selected
Select a record to see its details
CloudShell
Feedback
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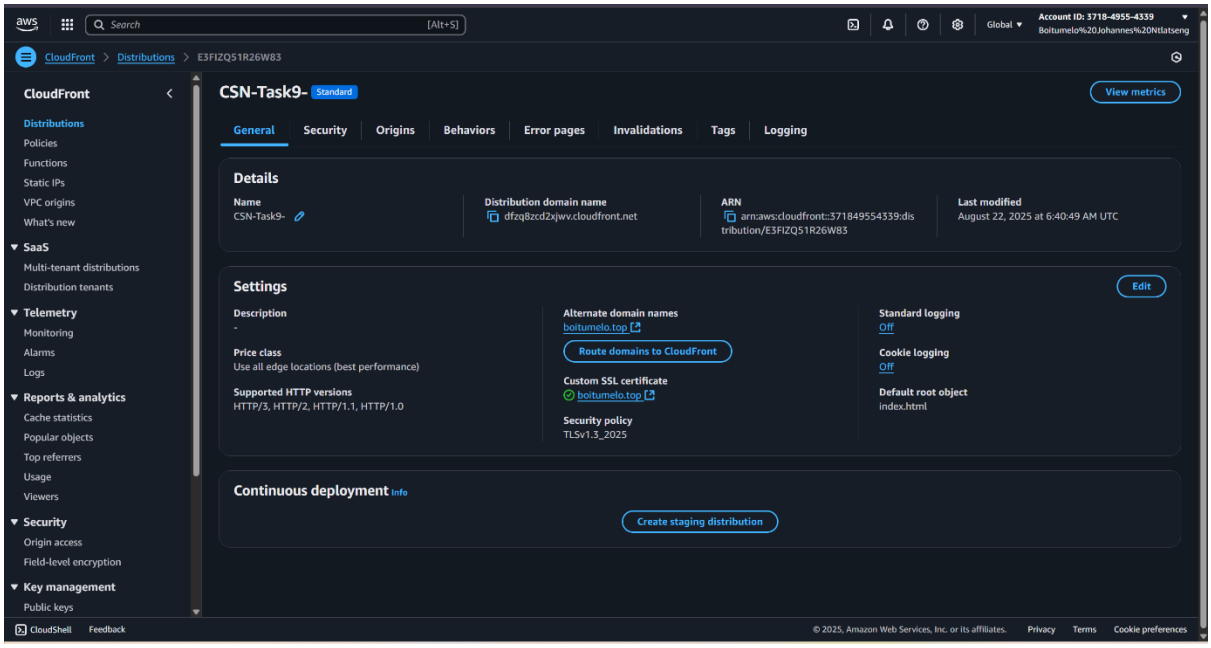
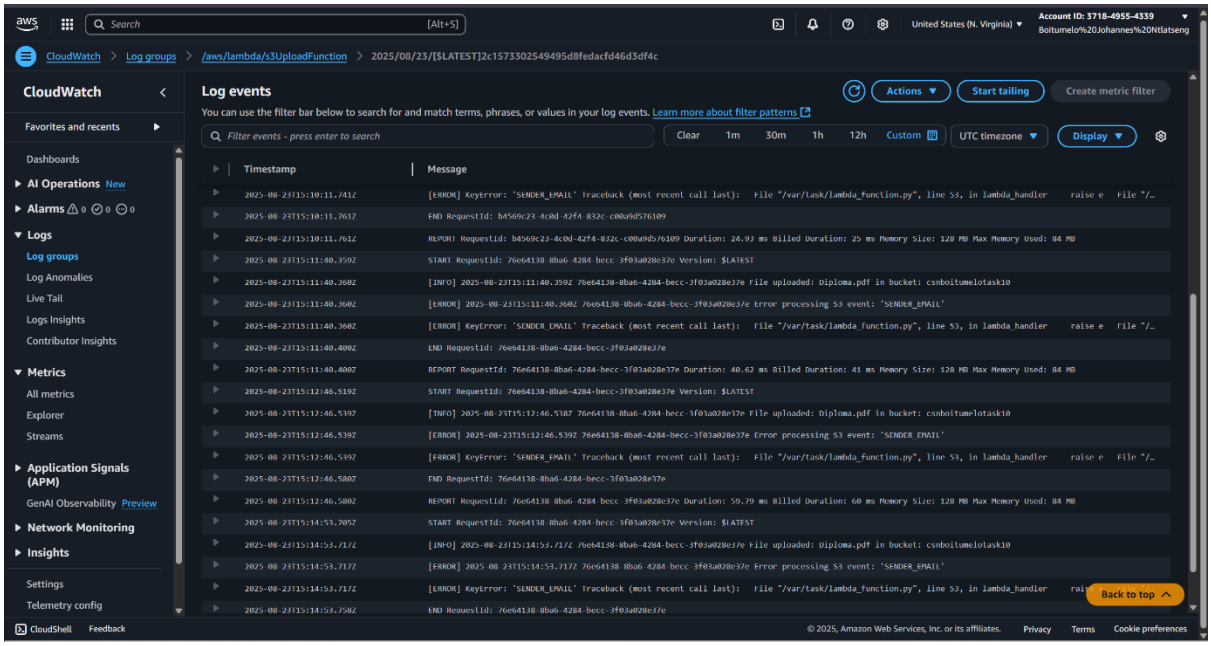
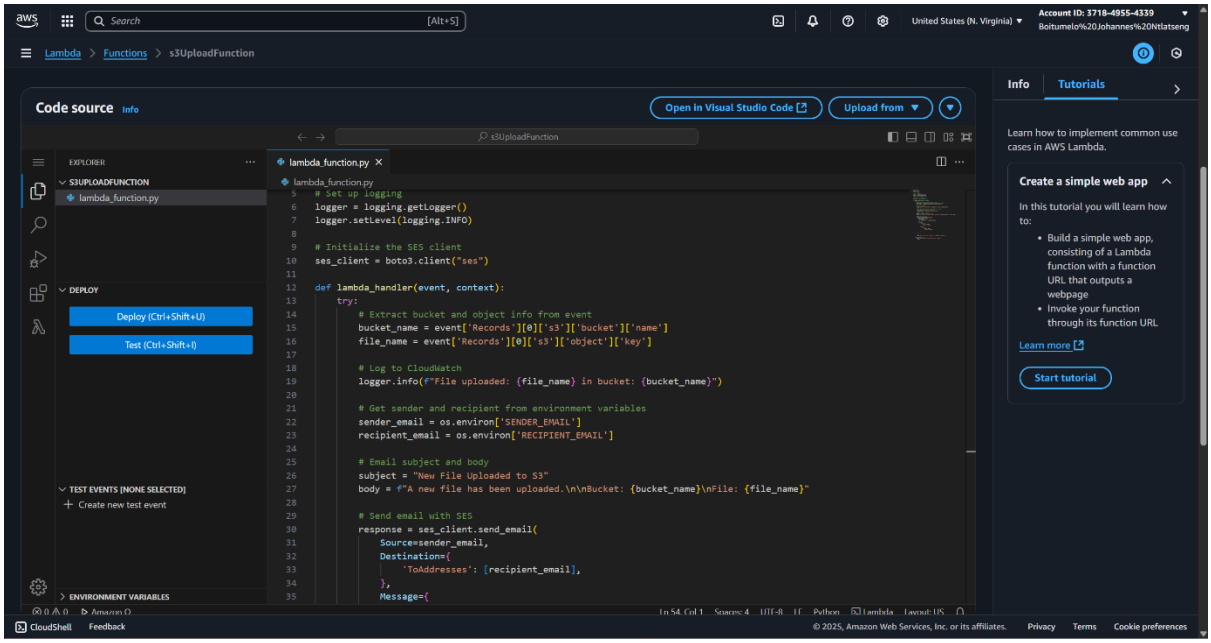
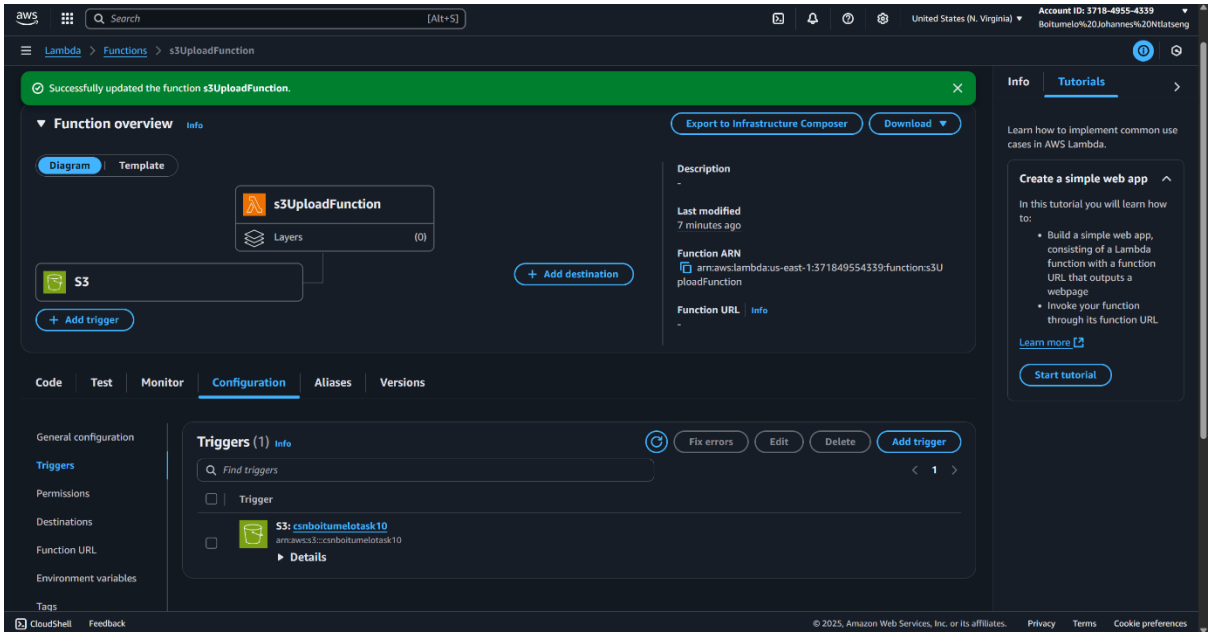


Week 10: Created an S3 bucket that automatically trigger a lambda function whenever a new file is uploaded to the bucket.


CloudWatch
Log groups
/aws/lambda/s3UploadFunction
2025/08/23/[$LATEST]2c1573302549495d8fedacfd46d3df4c
Log events
Actions
Start tailing
Create metric filter
Timestamp
Message
Back to top


Lambda
Functions
s3UploadFunction
Code source
Open in Visual Studio Code
Upload from
lambda_function.py
Deploy (Ctrl+Shift+U)
Test (Ctrl+Shift+I)
Info
Tutorials
Create a simple web app
Start tutorial


Search [Alt+S]
United States (N. Virginia)
Account ID: 3718-4955-4339
Boitumelo%20Johannes%20Ntlatseng
Lambda > Functions > s3UploadFunction
Successfully updated the function s3UploadFunction.
Function overview Info
Export to Infrastructure Composer
Download
Diagram
Template
s3UploadFunction
Layers (0)
S3
Add trigger
Add destination
Description
-
Last modified
7 minutes ago
Function ARN
arn:aws:lambda:us-east-1:371849554339:function:s3UploadFunction
Function URL Info
-
Info
Tutorials
Learn how to implement common use cases in AWS Lambda.
Create a simple web app
In this tutorial you will learn how to:
Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
Invoke your function through its function URL
Learn more
Start tutorial
Code
Test
Monitor
Configuration
Aliases
Versions
General configuration
Triggers
Permissions
Destinations
Function URL
Environment variables
Tags
Triggers (1) Info
Fix errors
Edit
Delete
Add trigger
Find triggers
Trigger
S3: csnboitumelotask10
arn:aws:s3:::csnboitumelotask10
Details
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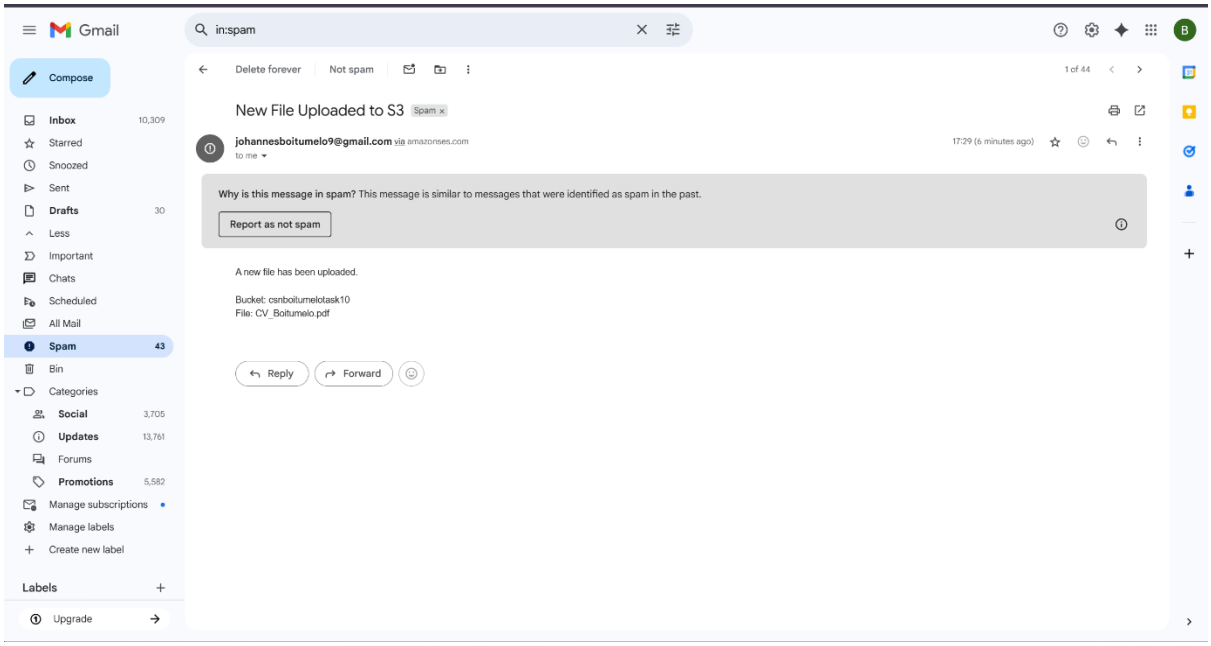
Gmail
in:spam
Compose
Inbox 10,309
Starred
Snoozed
Sent
Drafts 30
Less
Important
Chats
Scheduled
All Mail
Spam 43
Bin
Categories
Social 3,705
Updates 13,761
Forums
Promotions 5,582
Manage subscriptions
Manage labels
Create new label
Labels
Upgrade
Delete forever
Not spam
1 of 44
New File Uploaded to S3
Spam
johannesboitumelo9@gmail.com via amazonses.com
to me
17:29 (6 minutes ago)
Why is this message in spam? This message is similar to messages that were identified as spam in the past.
Report as not spam
A new file has been uploaded.
Bucket: csnboitumelotask10
File: CV_Boitumelo.pdf
Reply
Forward