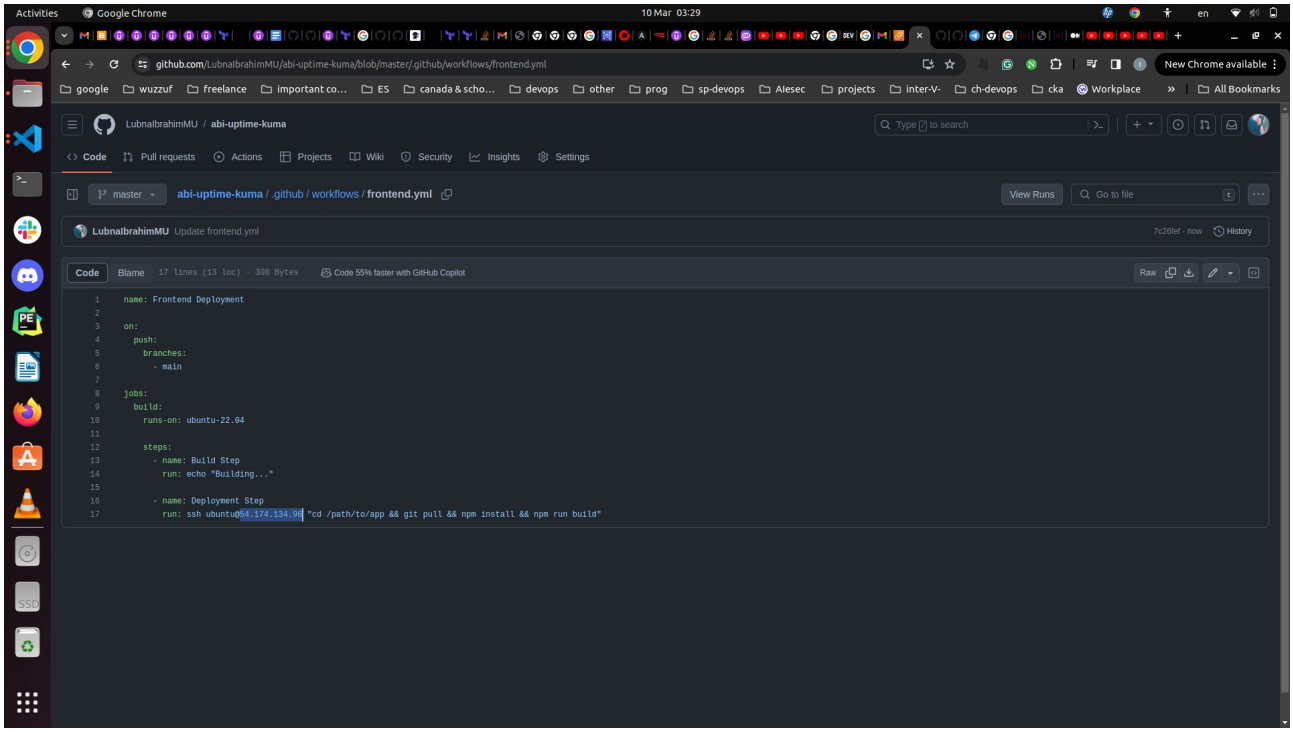
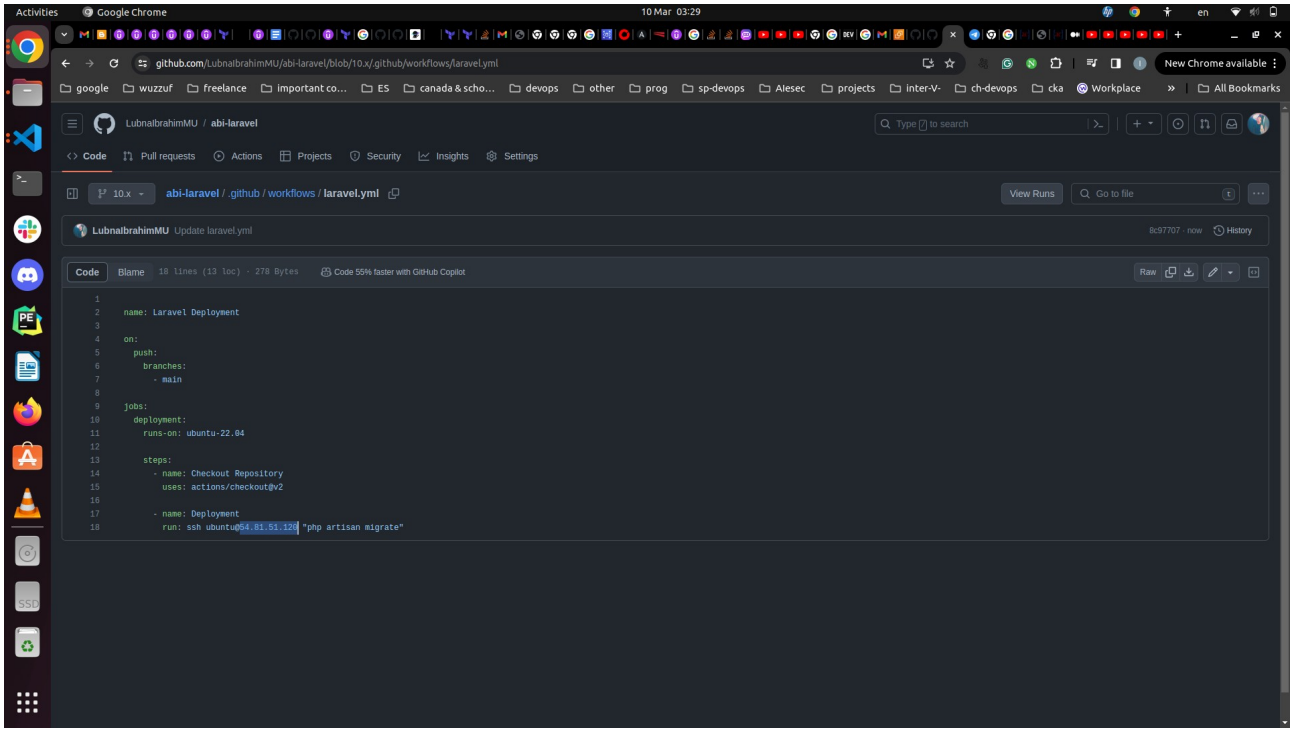
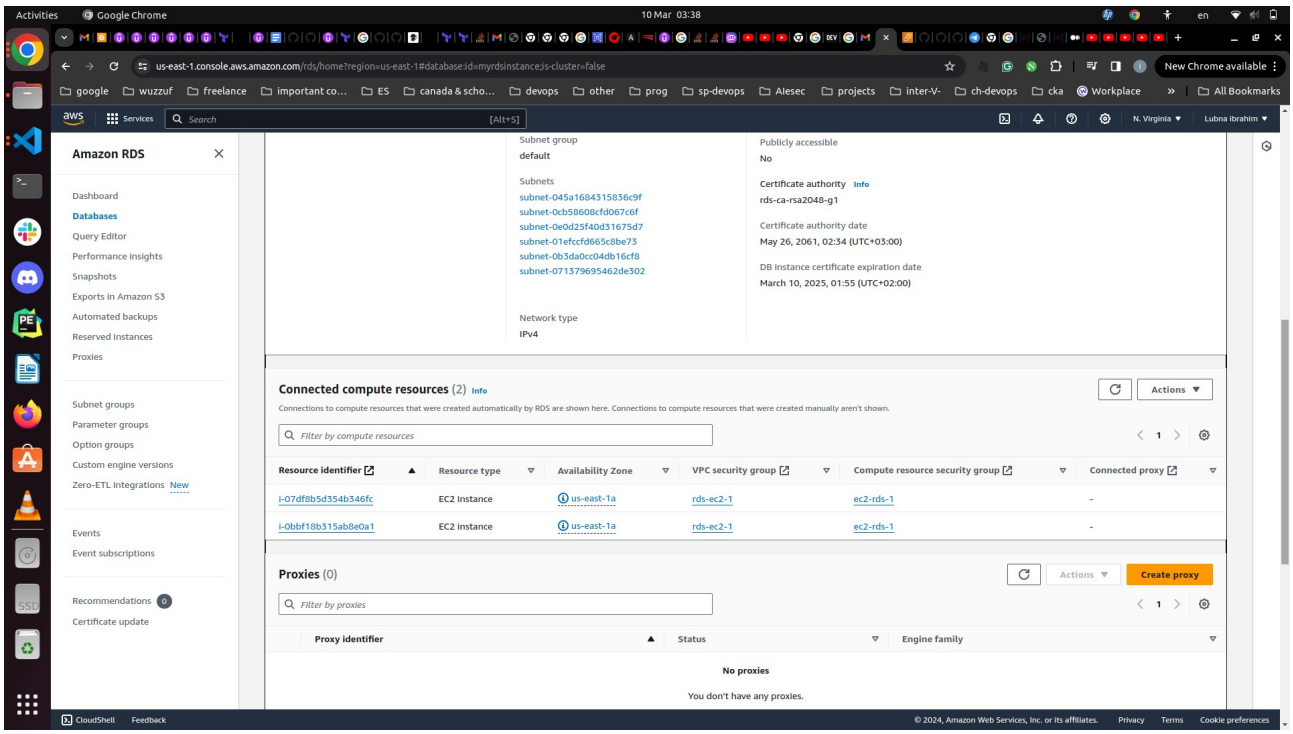
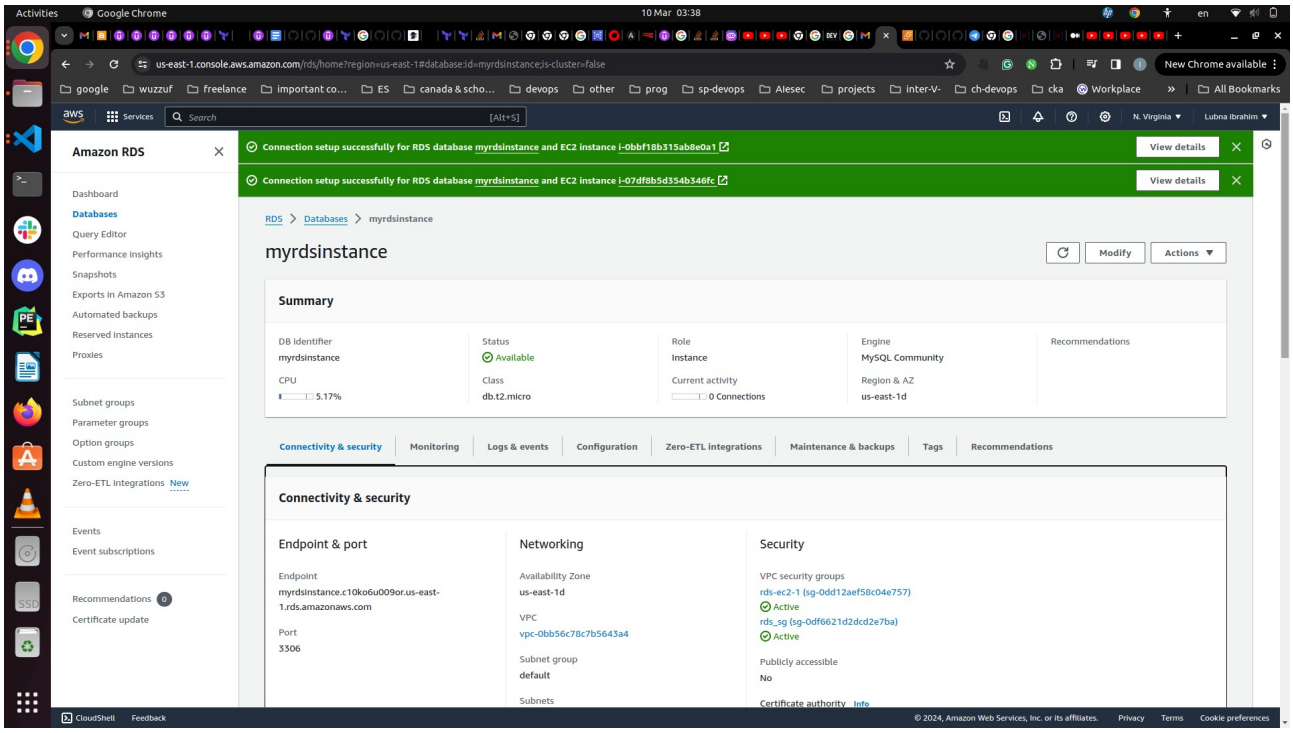
Task group B


Activities
Google Chrome
10 Mar 03:29
en
github.com/LubnaIbrahimMU/abi-uptime-kuma/blob/master/github/workflows/frontend.yml
New Chrome available
LubnaIbrahimMU / abi-uptime-kuma
Code
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
master
abi-uptime-kuma / .github / workflows / frontend.yml
View Runs
Go to file
LubnaIbrahimMU Update frontend.yml
7c26fef · now
History
Code
Blame
17 lines (13 loc) · 308 Bytes
Code 55% faster with GitHub Copilot
Raw
name: Frontend Deployment
on:
push:
branches:
- main
jobs:
build:
runs-on: ubuntu-22.04
steps:
- name: Build Step
run: echo "Building..."
- name: Deployment Step
run: ssh ubuntu@54.174.134.96 "cd /path/to/app && git pull && npm install && npm run build"


Activities
Google Chrome
10 Mar 03:29
en
github.com/LubnaIbrahimMU/abi-laravel/blob/10.x/.github/workflows/laravel.yml
New Chrome available
LubnaIbrahimMU / abi-laravel
Code
Pull requests
Actions
Projects
Security
Insights
Settings
10.x
abi-laravel / .github / workflows / laravel.yml
View Runs
Go to file
LubnaIbrahimMU Update laravel.yml
8c97707 · now
History
Code
Blame
18 lines (13 loc) · 278 Bytes
Code 55% faster with GitHub Copilot
Raw
name: Laravel Deployment
on:
push:
branches:
- main
jobs:
deployment:
runs-on: ubuntu-22.04
steps:
- name: Checkout Repository
uses: actions/checkout@v2
- name: Deployment
run: ssh ubuntu@54.81.51.126 "php artisan migrate"


Activities
Google Chrome
10 Mar 03:38
us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#database:id=myrdsinstance;is-cluster=false
New Chrome available
Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New
Events
Event subscriptions
Recommendations
Certificate update
Subnet group
default
Subnets
subnet-045a168431583 6c9f
subnet-0cb58608cfd067c6f
subnet-0e0d25f40d31675d7
subnet-01efccfd665c8be73
subnet-0b3da0cc04db16cf8
subnet-071379695462de302
Network type
IPv4
Publicly accessible
No
Certificate authority Info
rds-ca-rsa2048-g1
Certificate authority date
May 26, 2061, 02:34 (UTC+03:00)
DB instance certificate expiration date
March 10, 2025, 01:55 (UTC+02:00)
Connected compute resources (2) Info
Connections to compute resources that were created automatically by RDS are shown here. Connections to compute resources that were created manually aren't shown.
Actions
Filter by compute resources
Resource identifier
Resource type
Availability Zone
VPC security group
Compute resource security group
Connected proxy
i-07df8b5d354b346fc
EC2 Instance
us-east-1a
rds-ec2-1
ec2-rds-1
-
i-0bbf18b315ab8e0a1
EC2 Instance
us-east-1a
rds-ec2-1
ec2-rds-1
-
Proxies (0)
Actions
Create proxy
Filter by proxies
Proxy identifier
Status
Engine family
No proxies
You don't have any proxies.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Activities
Google Chrome
10 Mar 03:38
us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#database:id=myrdsinstance;is-cluster=false
New Chrome available
Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New
Events
Event subscriptions
Recommendations
Certificate update
Connection setup successfully for RDS database myrdsinstance and EC2 instance i-0bbf18b315ab8e0a1
View details
Connection setup successfully for RDS database myrdsinstance and EC2 instance i-07df8b5d354b346fc
View details
RDS > Databases > myrdsinstance
myrdsinstance
Modify
Actions
Summary
DB identifier
myrdsinstance
Status
Available
Role
Instance
Engine
MySQL Community
Recommendations
CPU
5.17%
Class
db.t2.micro
Current activity
0 Connections
Region & AZ
us-east-1d
Connectivity & security
Monitoring
Logs & events
Configuration
Zero-ETL integrations
Maintenance & backups
Tags
Recommendations
Connectivity & security
Endpoint & port
Endpoint
myrdsinstance.c10ko6u009or.us-east-1.rds.amazonaws.com
Port
3306
Networking
Availability Zone
us-east-1d
VPC
vpc-0bb56c78c7b5643a4
Subnet group
default
Subnets
Security
VPC security groups
rds-ec2-1 (sg-0dd12aef58c04e757)
Active
rds_sg (sg-0df6621d2dcd2e7ba)
Active
Publicly accessible
No
Certificate authority Info
CloudShell
Feedback
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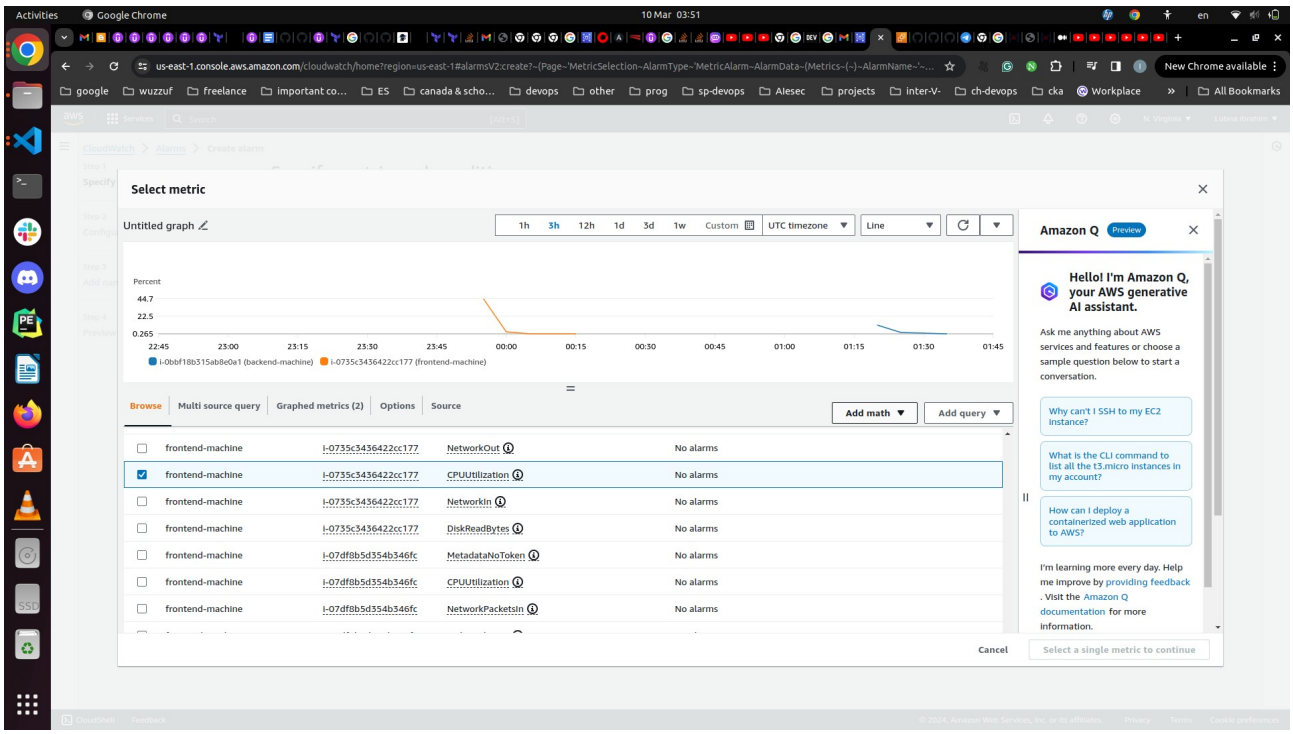
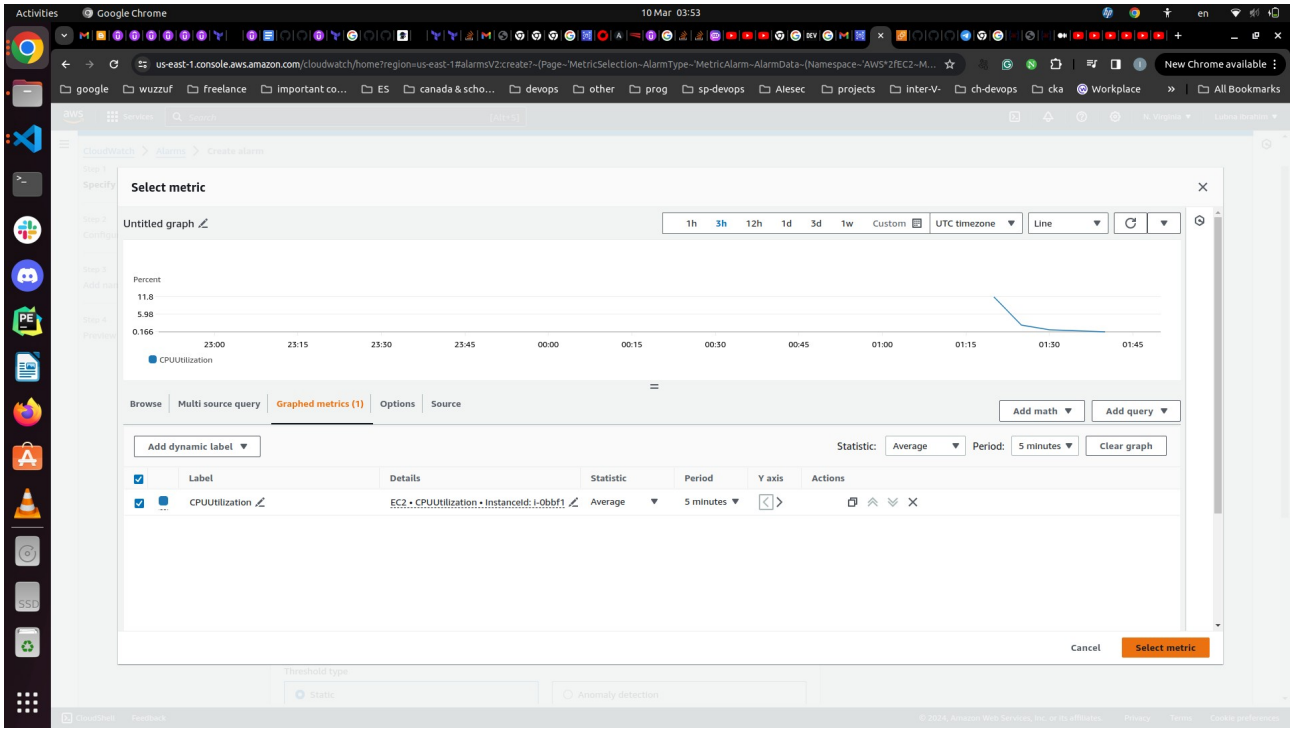
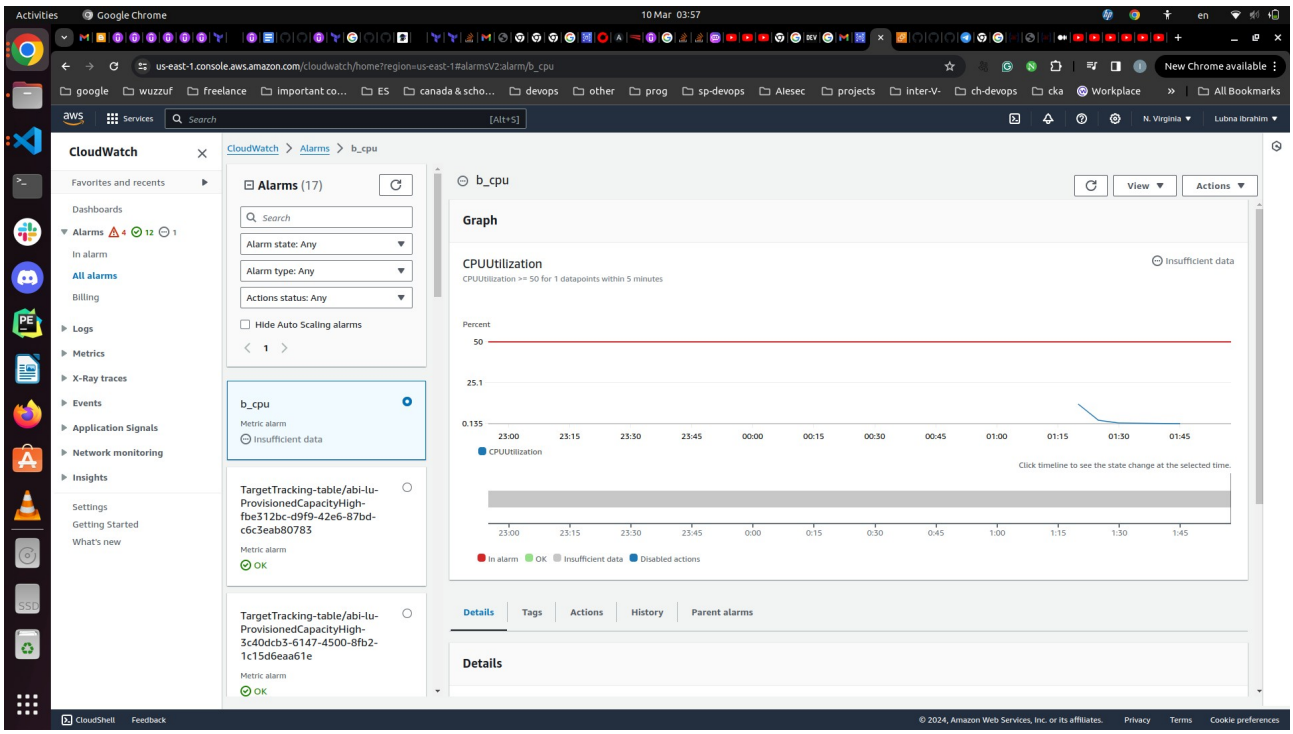

Activities
Google Chrome
10 Mar 03:51
us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:create?~(Page~'MetricSelection~AlarmType~'MetricAlarm~AlarmData~(Metrics~(~)~AlarmName~'~...
New Chrome available
Select metric
Untitled graph
1h 3h 12h 1d 3d 1w Custom UTC timezone Line
Percent
44.7
22.5
0.265
22:45 23:00 23:15 23:30 23:45 00:00 00:15 00:30 00:45 01:00 01:15 01:30 01:45
i-0bbf18b315ab8e0a1 (backend-machine)
i-0735c3436422cc177 (frontend-machine)
Browse
Multi source query
Graphed metrics (2)
Options
Source
Add math
Add query
frontend-machine i-0735c3436422cc177 NetworkOut No alarms
frontend-machine i-0735c3436422cc177 CPUUtilization No alarms
frontend-machine i-0735c3436422cc177 NetworkIn No alarms
frontend-machine i-0735c3436422cc177 DiskReadBytes No alarms
frontend-machine i-07df8b5d354b346fc MetadataNoToken No alarms
frontend-machine i-07df8b5d354b346fc CPUUtilization No alarms
frontend-machine i-07df8b5d354b346fc NetworkPacketsIn No alarms
Amazon Q
Preview
Hello! I'm Amazon Q, your AWS generative AI assistant.
Ask me anything about AWS services and features or choose a sample question below to start a conversation.
Why can't I SSH to my EC2 instance?
What is the CLI command to list all the t3.micro instances in my account?
How can I deploy a containerized web application to AWS?
I'm learning more every day. Help me improve by providing feedback. Visit the Amazon Q documentation for more information.
Cancel
Select a single metric to continue


Activities
Google Chrome
10 Mar 03:53
us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:create?~(Page~'MetricSelection~AlarmType~'MetricAlarm~AlarmData~(Namespace~'AWS*2fEC2~M...
New Chrome available
Select metric
Untitled graph
1h 3h 12h 1d 3d 1w Custom UTC timezone Line
Percent
11.8
5.98
0.166
23:00 23:15 23:30 23:45 00:00 00:15 00:30 00:45 01:00 01:15 01:30 01:45
CPUUtilization
Browse
Multi source query
Graphed metrics (1)
Options
Source
Add math
Add query
Add dynamic label
Statistic: Average
Period: 5 minutes
Clear graph
Label
Details
Statistic
Period
Y axis
Actions
CPUUtilization
EC2 • CPUUtilization • InstanceId: i-0bbf1
Average
5 minutes
Cancel
Select metric


Activities
Google Chrome
10 Mar 03:57
us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:alarm/b_cpu
New Chrome available
CloudWatch
Favorites and recents
Dashboards
Alarms
In alarm
All alarms
Billing
Logs
Metrics
X-Ray traces
Events
Application Signals
Network monitoring
Insights
Settings
Getting Started
What's new
CloudWatch > Alarms > b_cpu
Alarms (17)
Search
Alarm state: Any
Alarm type: Any
Actions status: Any
Hide Auto Scaling alarms
b_cpu
Metric alarm
Insufficient data
TargetTracking-table/abi-lu-ProvisionedCapacityHigh-fbe312bc-d9f9-42e6-87bd-c6c3eab80783
Metric alarm
OK
TargetTracking-table/abi-lu-ProvisionedCapacityHigh-3c40dcb3-6147-4500-8fb2-1c15d6eaa61e
Metric alarm
OK
b_cpu
View
Actions
Graph
CPUUtilization
CPUUtilization >= 50 for 1 datapoints within 5 minutes
Insufficient data
Percent
50
25.1
0.135
23:00
23:15
23:30
23:45
00:00
00:15
00:30
00:45
01:00
01:15
01:30
01:45
CPUUtilization
Click timeline to see the state change at the selected time.
In alarm
OK
Insufficient data
Disabled actions
Details
Tags
Actions
History
Parent alarms
Details
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
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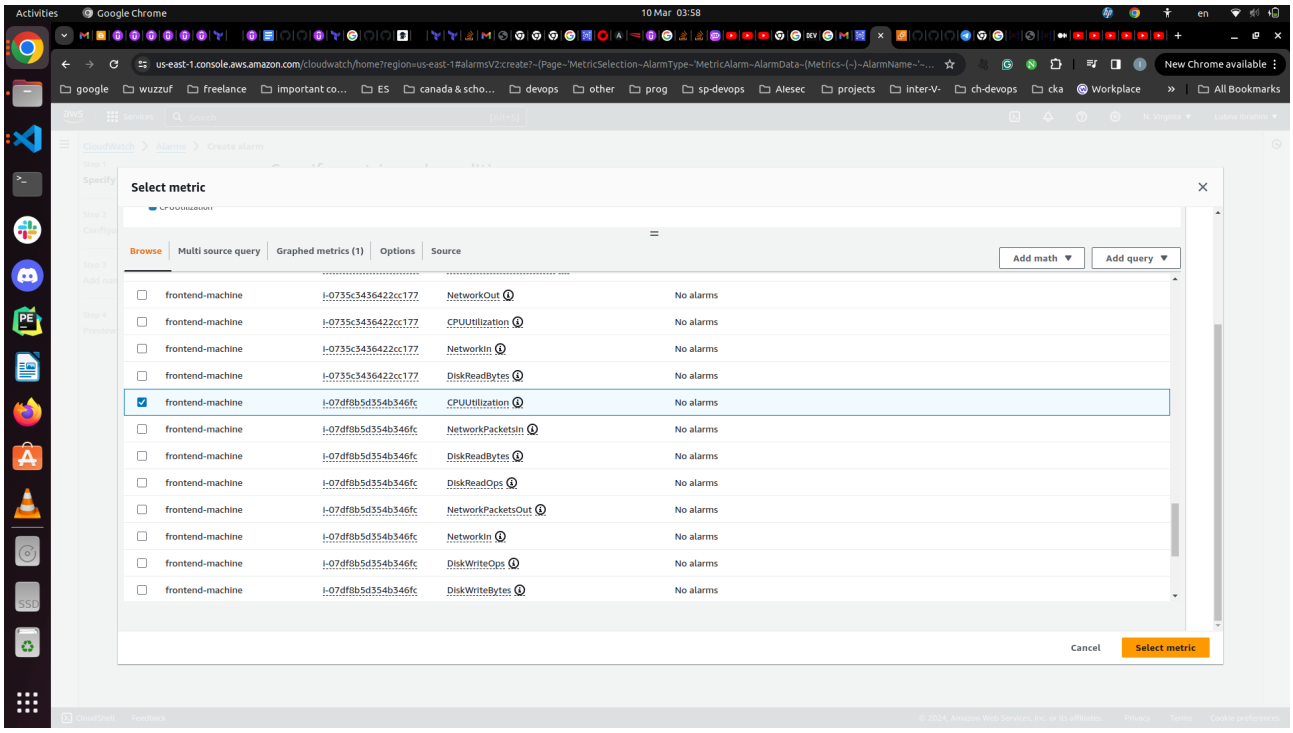
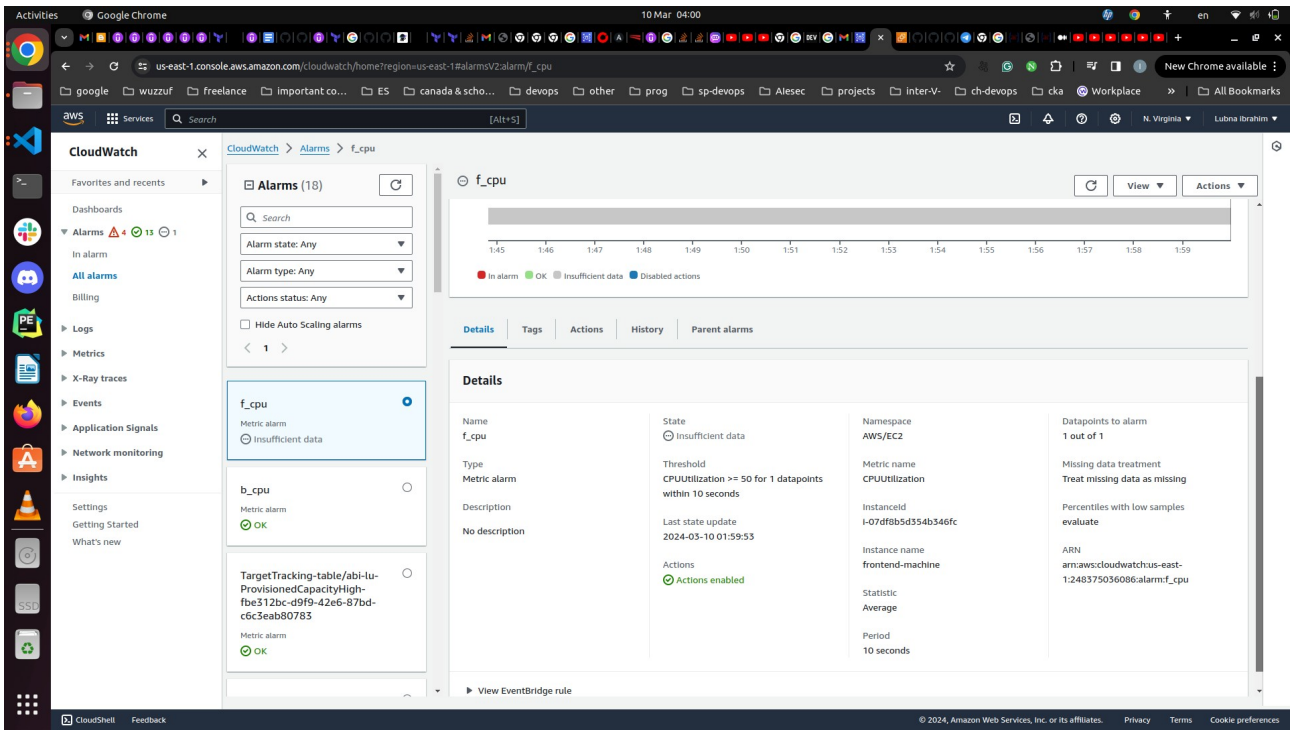
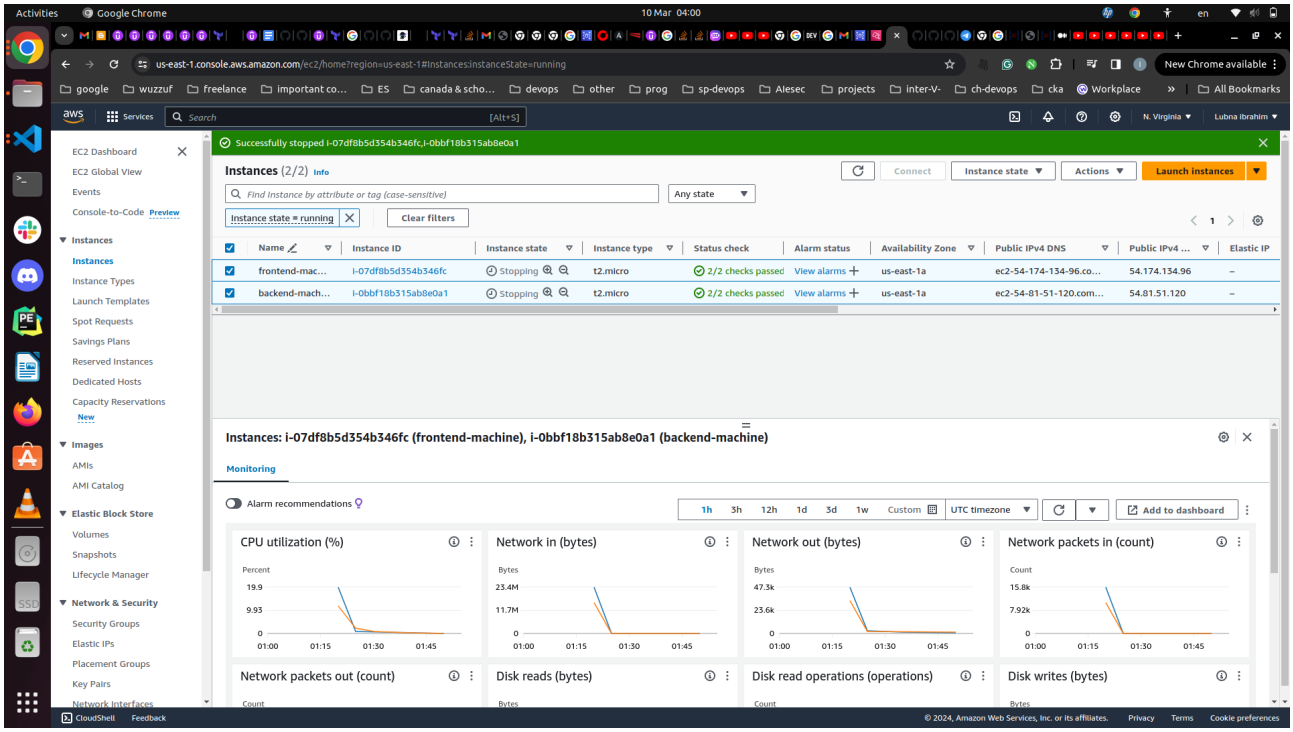
Cookie preferences


Activities
Google Chrome
10 Mar 03:58
New Chrome available
Select metric
Browse
Multi source query
Graphed metrics (1)
Options
Source
Add math
Add query
frontend-machine i-0735c3436422cc177 NetworkOut No alarms
frontend-machine i-0735c3436422cc177 CPUUtilization No alarms
frontend-machine i-0735c3436422cc177 NetworkIn No alarms
frontend-machine i-0735c3436422cc177 DiskReadBytes No alarms
frontend-machine i-07df8b5d354b346fc CPUUtilization No alarms
frontend-machine i-07df8b5d354b346fc NetworkPacketsIn No alarms
frontend-machine i-07df8b5d354b346fc DiskReadBytes No alarms
frontend-machine i-07df8b5d354b346fc DiskReadOps No alarms
frontend-machine i-07df8b5d354b346fc NetworkPacketsOut No alarms
frontend-machine i-07df8b5d354b346fc NetworkIn No alarms
frontend-machine i-07df8b5d354b346fc DiskWriteOps No alarms
frontend-machine i-07df8b5d354b346fc DiskWriteBytes No alarms
Cancel
Select metric





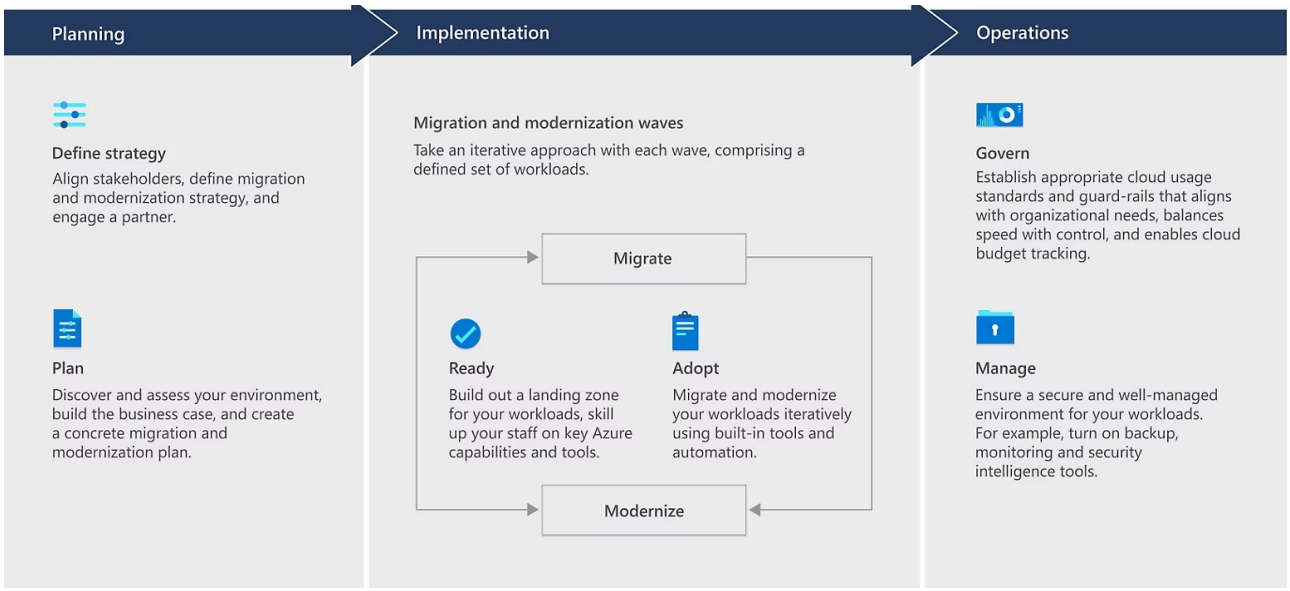
First automate the deployment of the application by configure github actions, github workflow for 2 repos

second using cloud cloudwatch metrics for cpu utilization and sending mails if it's above or equal the average 50%

Task group C:

first I knew about the competition recently, so I have just one day to start and finish it. Due to my volunteering work, I intend to study Azure soon, so I still don't have enough experience.

second, Cloud migration and modernization is a continuous process that involves significant organizational change management spanning people, processes, and technology. Taking a holistic approach will help you navigate the journey successfully but also help ensure that your organization realizes new benefits—including efficiency, agility, and scale—once your workloads are running in the cloud.



It requires careful planning and execution to minimize downtime. Here's a detailed plan to achieve this task efficiently:

1.Evaluate the new cloud platform: Conduct a thorough assessment of the new cloud platform to understand its capabilities, services, and compatibility with your application and database requirements. Identify any differences or gaps compared to Azure and plan for any necessary adjustments.

2.Set up the new cloud account: configure the necessary networking, security, and access controls. Set up virtual machines (VMs) or containers that match the specifications of your existing infrastructure on Azure.

3.Replicate the application: Migrate your application code and assets (product images, PDFs, etc.) from Azure to the new cloud platform. This can involve transferring files using tools like rsync or leveraging cloud storage services for efficient data transfer. Ensure that the application is properly configured and accessible in the new environment.

4.Set up the database: Create a new database instance on the new cloud platform that matches the specifications.

5.igrate the database: Depending on the database size and complexity, there are different migration approaches:

Online migration
Offline migration

6.Update application configuration: Modify the application configuration to point to the new database and other relevant services on the new cloud platform. Update connection strings, API endpoints, and any other necessary settings to ensure the application can interact with the new infrastructure.

7.Testing and validation: Thoroughly test the application functionality and performance on the new cloud platform. Validate that the database records, product images, PDFs, and other assets have been successfully migrated and are accessible. Perform integration testing, load testing, and any other necessary tests to ensure the application is working as expected

8.DNS and traffic switch: Once testing is complete and you are confident in the new infrastructure's stability and performance, update the DNS records to point to the new cloud platform. This switch will direct incoming traffic to the new environment. Monitor the traffic closely to ensure that all requests are being handled properly and that there are no issues.

9.Monitor and optimize: After the migration is complete and traffic is fully switched to the new cloud platform, closely monitor the application and database performance. Fine-tune any settings, optimize resource allocation, and address any issues that may arise during the transition. Keep an eye on monitoring metrics, logs, and user feedback to ensure a smooth operation.

Note: It's important to customize this plan based on the specific requirements, configurations, and constraints of your application and the new cloud platform you are migrating to. Consider engaging cloud migration specialists or consulting with experts in the target cloud platform to ensure a successful and efficient migration.