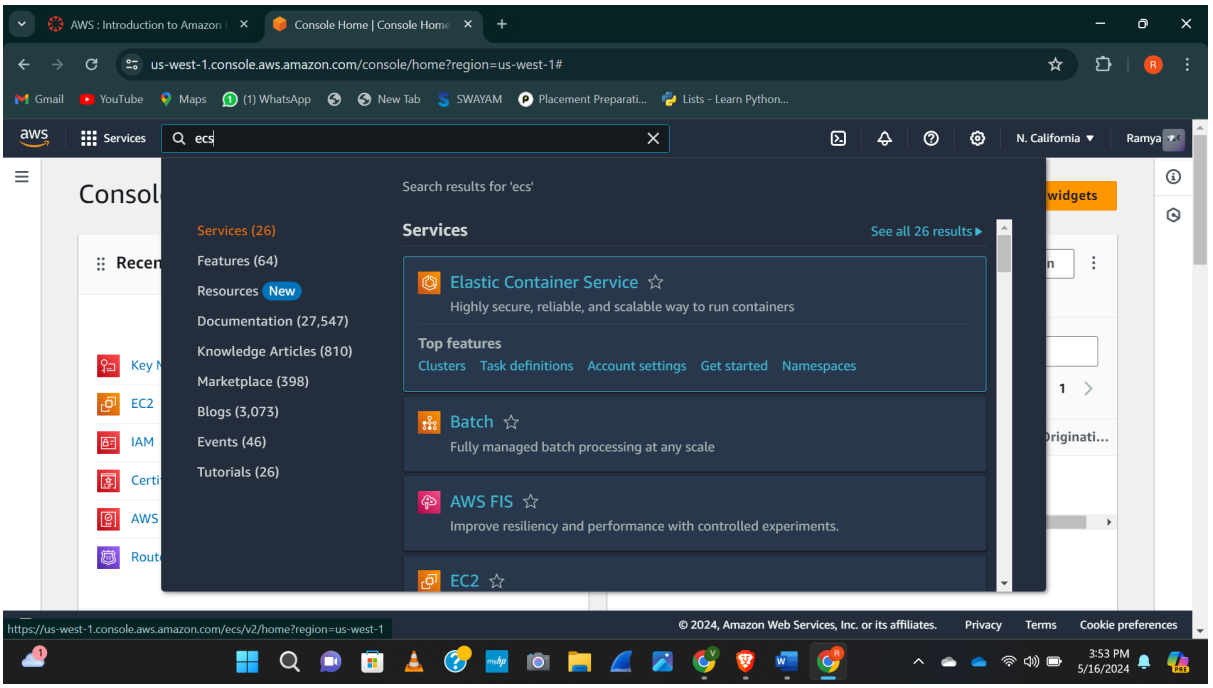
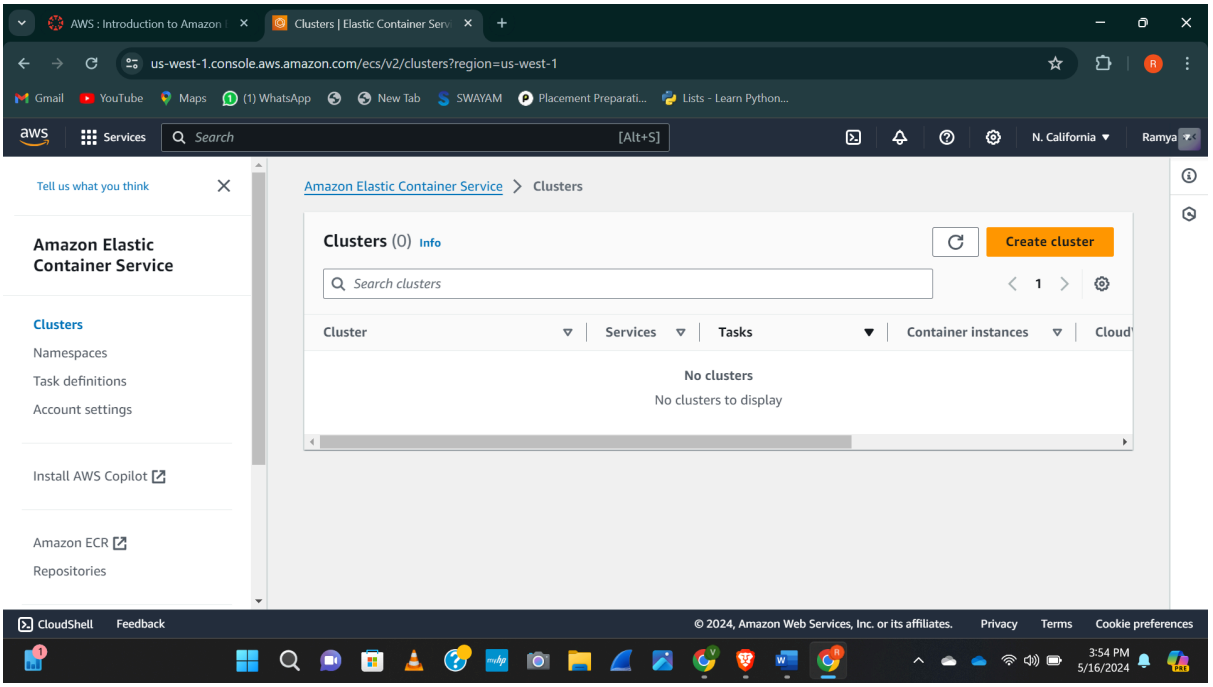
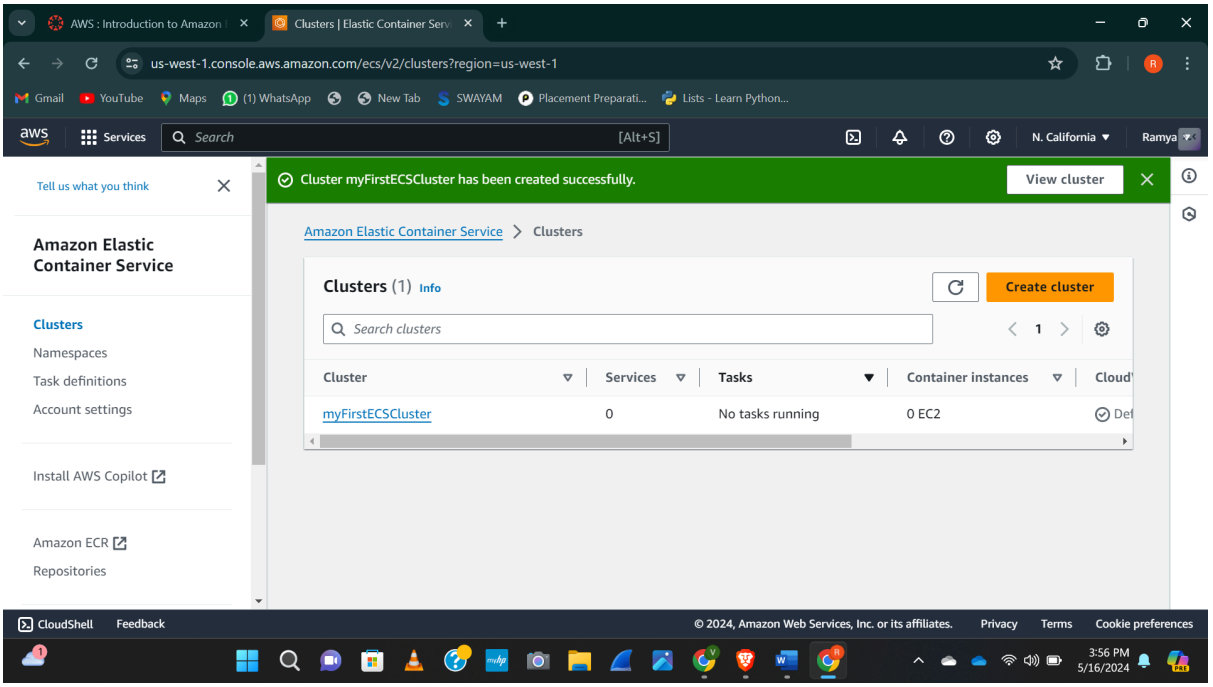
AWS : Introduction to Amazon Elastic Container Service (ECS)



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Clusters | Elastic Container Serv
us-west-1.console.aws.amazon.com/ecs/v2/clusters?region=us-west-1
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Tell us what you think
Cluster myFirstECSCluster has been created successfully.
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No tasks running
0 EC2
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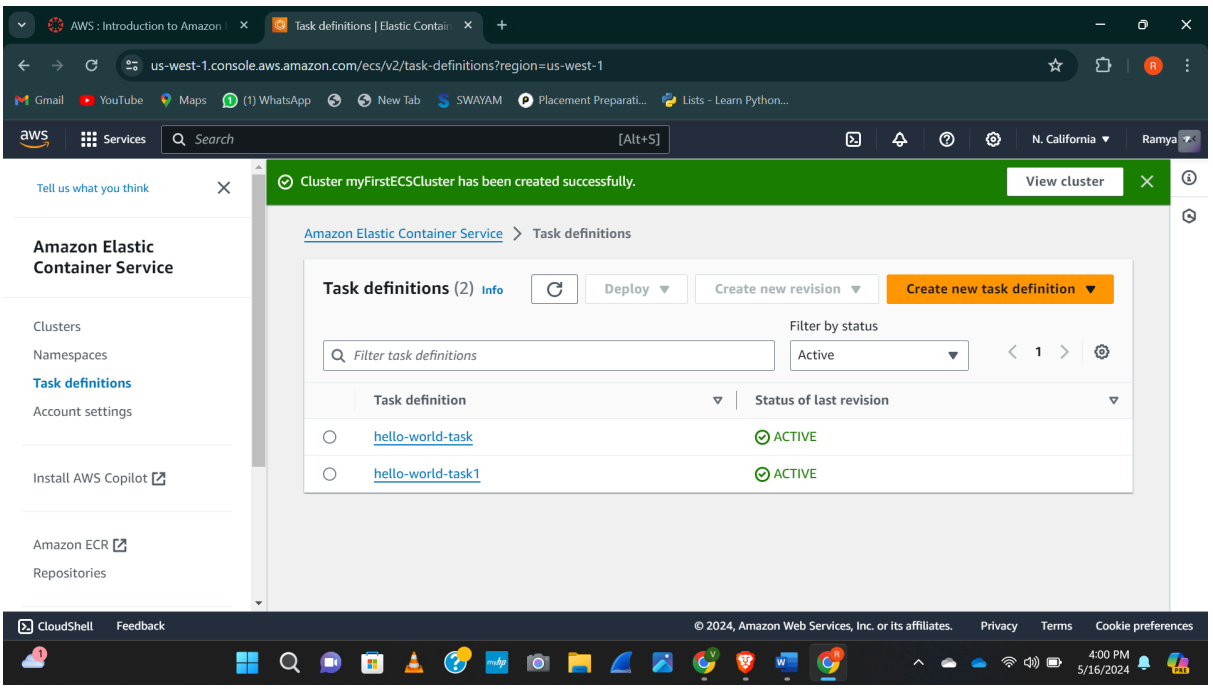
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Task definitions | Elastic Contain
us-west-1.console.aws.amazon.com/ecs/v2/task-definitions?region=us-west-1
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Create new task definition
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Filter task definitions
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Status of last revision
hello-world-task
ACTIVE
hello-world-task1
ACTIVE
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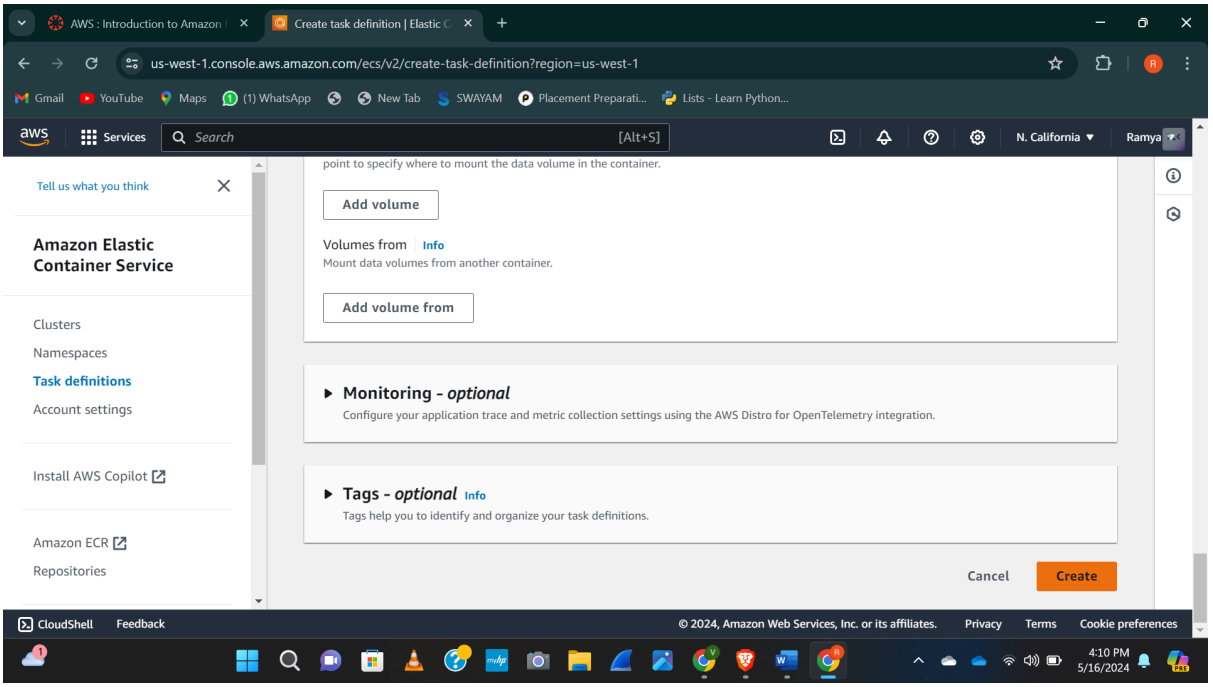
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Create task definition | Elastic
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point to specify where to mount the data volume in the container.
Add volume
Volumes from Info
Mount data volumes from another container.
Add volume from
Monitoring - optional
Configure your application trace and metric collection settings using the AWS Distro for OpenTelemetry integration.
Tags - optional Info
Tags help you to identify and organize your task definitions.
Cancel
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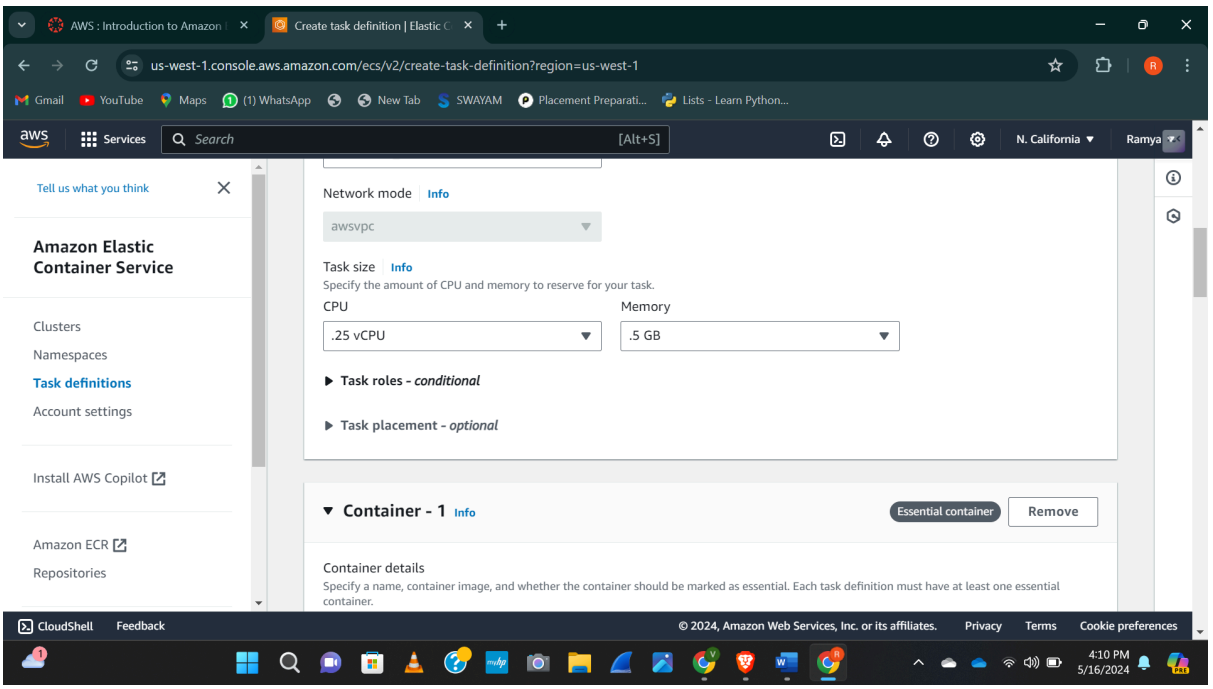
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Network mode Info
awsvpc
Task size Info
Specify the amount of CPU and memory to reserve for your task.
CPU
.25 vCPU
Memory
.5 GB
Task roles - conditional
Task placement - optional
Container - 1 Info
Essential container
Remove
Container details
Specify a name, container image, and whether the container should be marked as essential. Each task definition must have at least one essential container.
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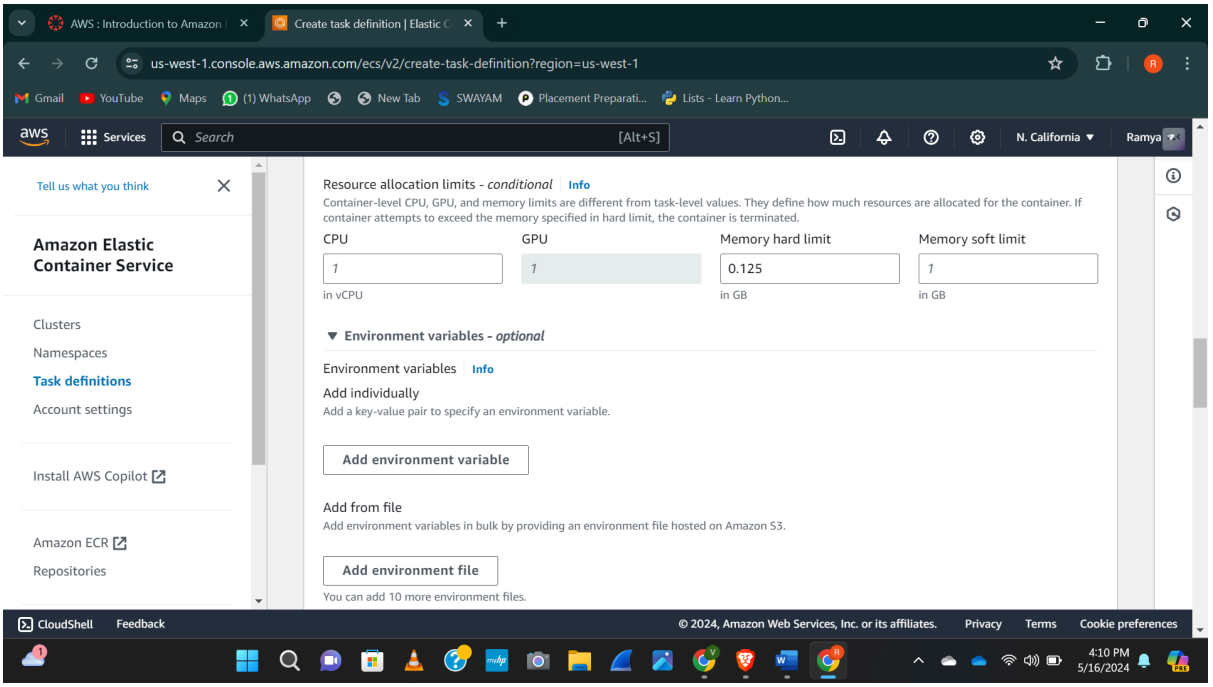
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Resource allocation limits - conditional Info
Container-level CPU, GPU, and memory limits are different from task-level values. They define how much resources are allocated for the container. If container attempts to exceed the memory specified in hard limit, the container is terminated.
CPU
GPU
Memory hard limit
Memory soft limit
1
in vCPU
1
0.125
in GB
1
in GB
Environment variables - optional
Environment variables Info
Add individually
Add a key-value pair to specify an environment variable.
Add environment variable
Add from file
Add environment variables in bulk by providing an environment file hosted on Amazon S3.
Add environment file
You can add 10 more environment files.
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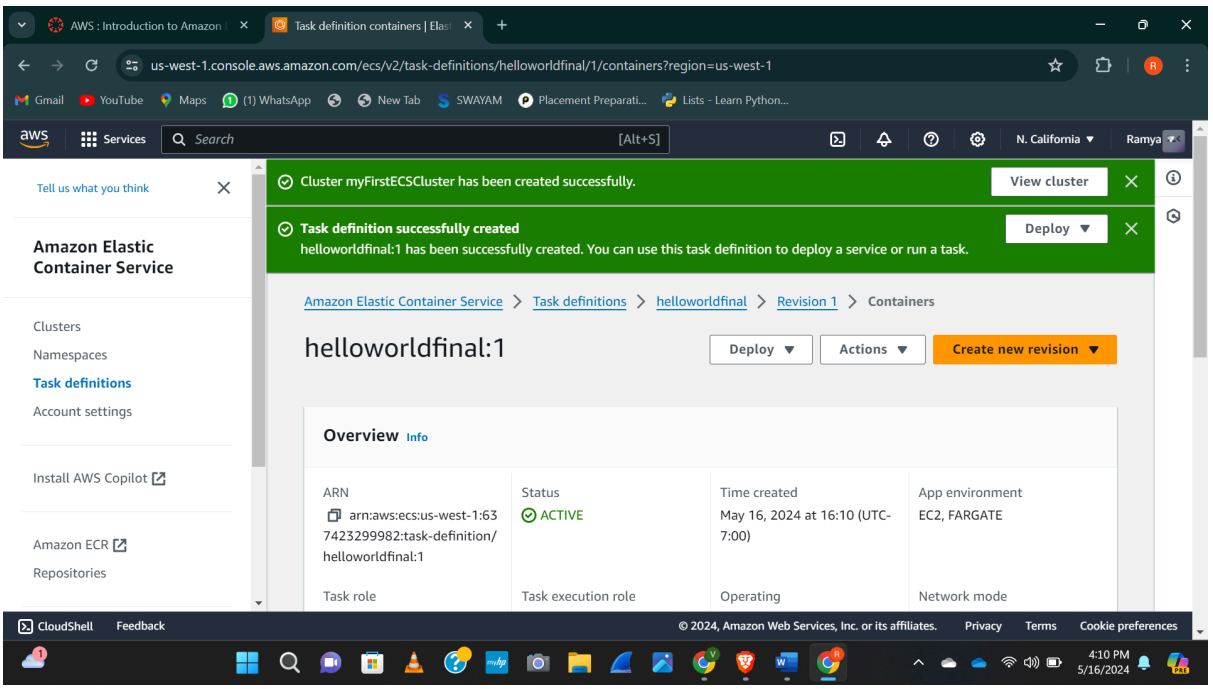
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Task definition containers | Elas
us-west-1.console.aws.amazon.com/ecs/v2/task-definitions/helloworldfinal/1/containers?region=us-west-1
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Cluster myFirstECSCluster has been created successfully.
View cluster
Task definition successfully created
helloworldfinal:1 has been successfully created. You can use this task definition to deploy a service or run a task.
Deploy
Amazon Elastic Container Service > Task definitions > helloworldfinal > Revision 1 > Containers
helloworldfinal:1
Deploy
Actions
Create new revision
Overview Info
ARN
arn:aws:ecs:us-west-1:637423299982:task-definition/helloworldfinal:1
Status
ACTIVE
Time created
May 16, 2024 at 16:10 (UTC-7:00)
App environment
EC2, FARGATE
Task role
Task execution role
Operating
Network mode
CloudShell
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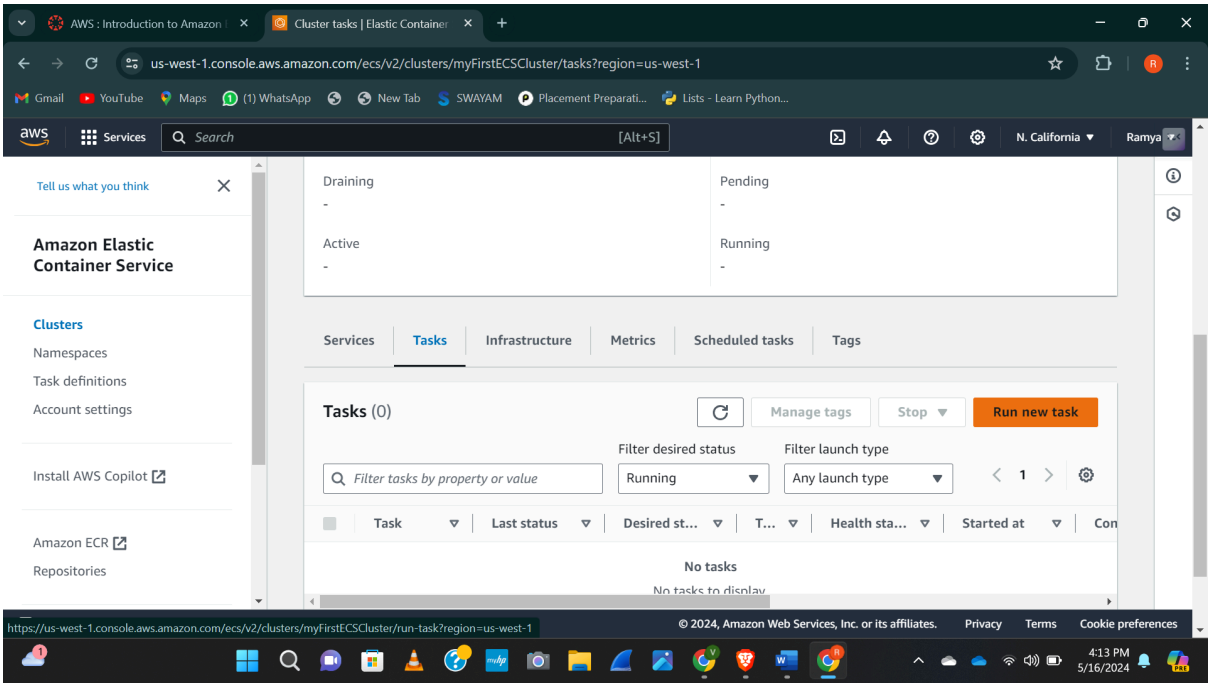
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Cluster tasks | Elastic Container
us-west-1.console.aws.amazon.com/ecs/v2/clusters/myFirstECSCluster/tasks?region=us-west-1
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Tasks (0)
Manage tags Stop Run new task
Filter desired status
Filter launch type
Filter tasks by property or value
Running
Any launch type
1
Task Last status Desired st... T... Health sta... Started at Con
No tasks
No tasks to display
https://us-west-1.console.aws.amazon.com/ecs/v2/clusters/myFirstECSCluster/run-task?region=us-west-1
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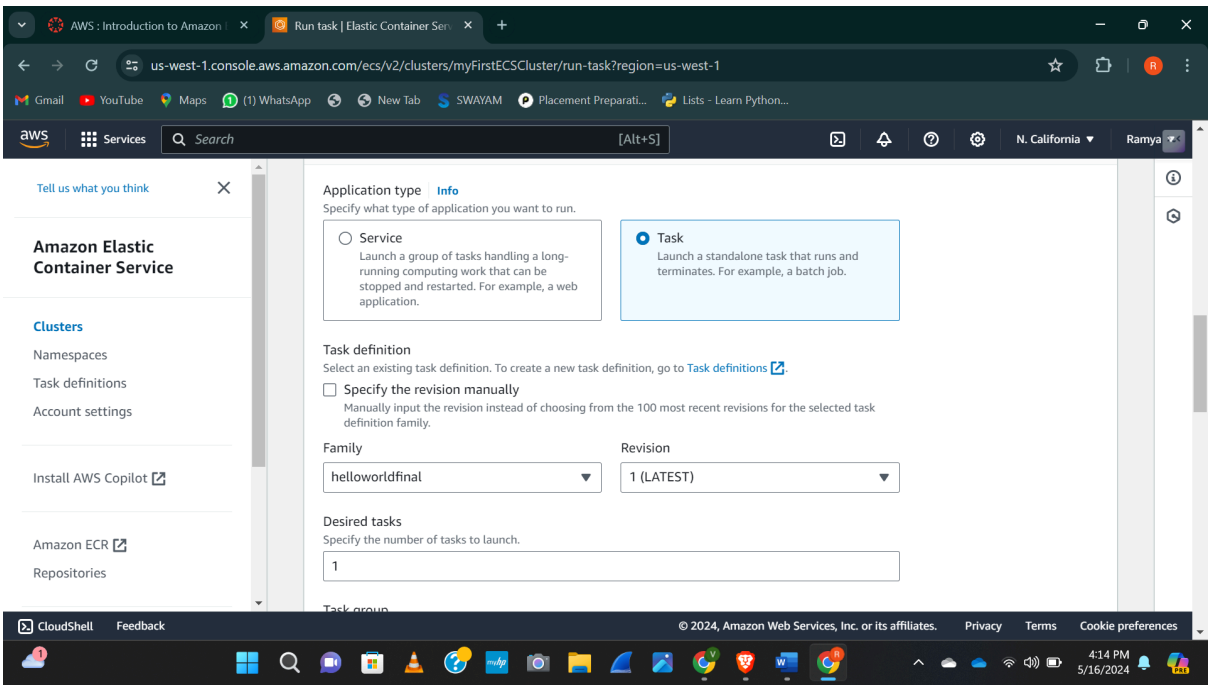
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Run task | Elastic Container Ser
us-west-1.console.aws.amazon.com/ecs/v2/clusters/myFirstECSCluster/run-task?region=us-west-1
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Application type Info
Specify what type of application you want to run.
Service
Launch a group of tasks handling a long-running computing work that can be stopped and restarted. For example, a web application.
Task
Launch a standalone task that runs and terminates. For example, a batch job.
Task definition
Select an existing task definition. To create a new task definition, go to Task definitions.
Specify the revision manually
Manually input the revision instead of choosing from the 100 most recent revisions for the selected task definition family.
Family
helloworldfinal
Revision
1 (LATEST)
Desired tasks
Specify the number of tasks to launch.
1
Task group
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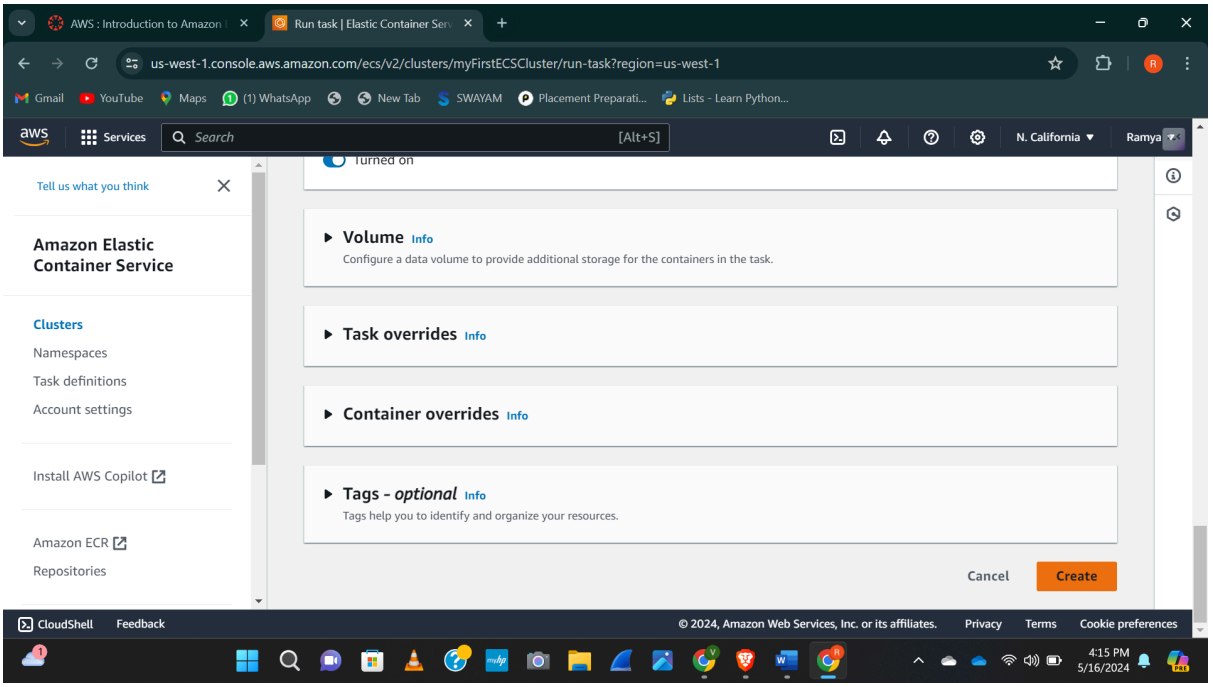
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Turned on
Volume Info
Configure a data volume to provide additional storage for the containers in the task.
Task overrides Info
Container overrides Info
Tags - optional Info
Tags help you to identify and organize your resources.
Cancel
Create
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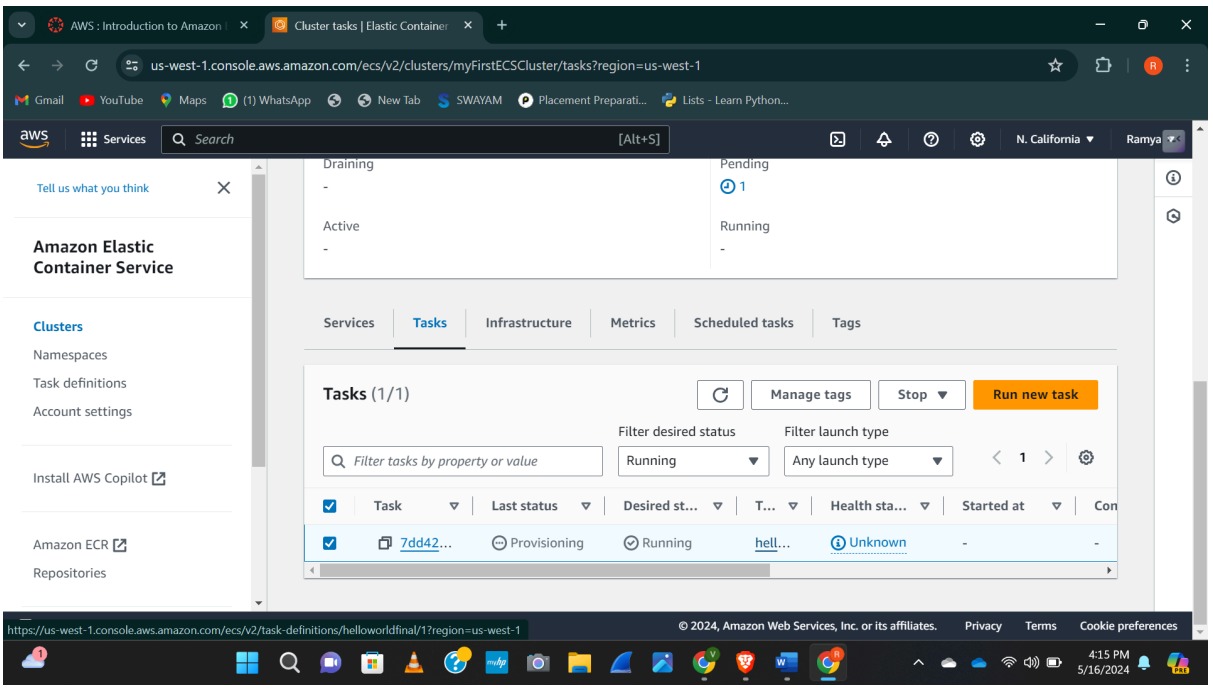
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-
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Run new task
Filter tasks by property or value
Filter desired status
Running
Filter launch type
Any launch type
1
Task
Last status
Desired st...
T...
Health sta...
Started at
Con
7dd42...
Provisioning
Running
hell...
Unknown
-
-
https://us-west-1.console.aws.amazon.com/ecs/v2/task-definitions/helloworldfinal/1?region=us-west-1
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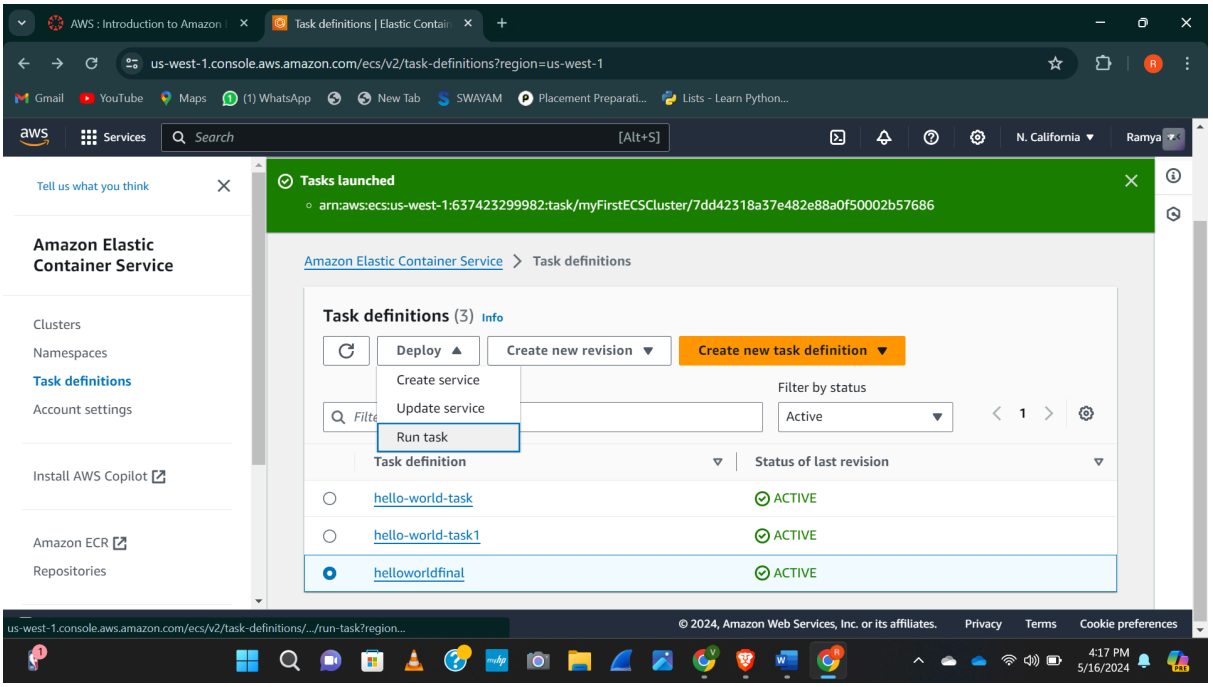
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Tasks launched
arn:aws:ecs:us-west-1:637423299982:task/myFirstECSCluster/7dd42318a37e482e88a0f50002b57686
Amazon Elastic Container Service > Task definitions
Task definitions (3) Info
Deploy
Create new revision
Create new task definition
Create service
Update service
Run task
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hello-world-task
ACTIVE
hello-world-task1
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helloworldfinal
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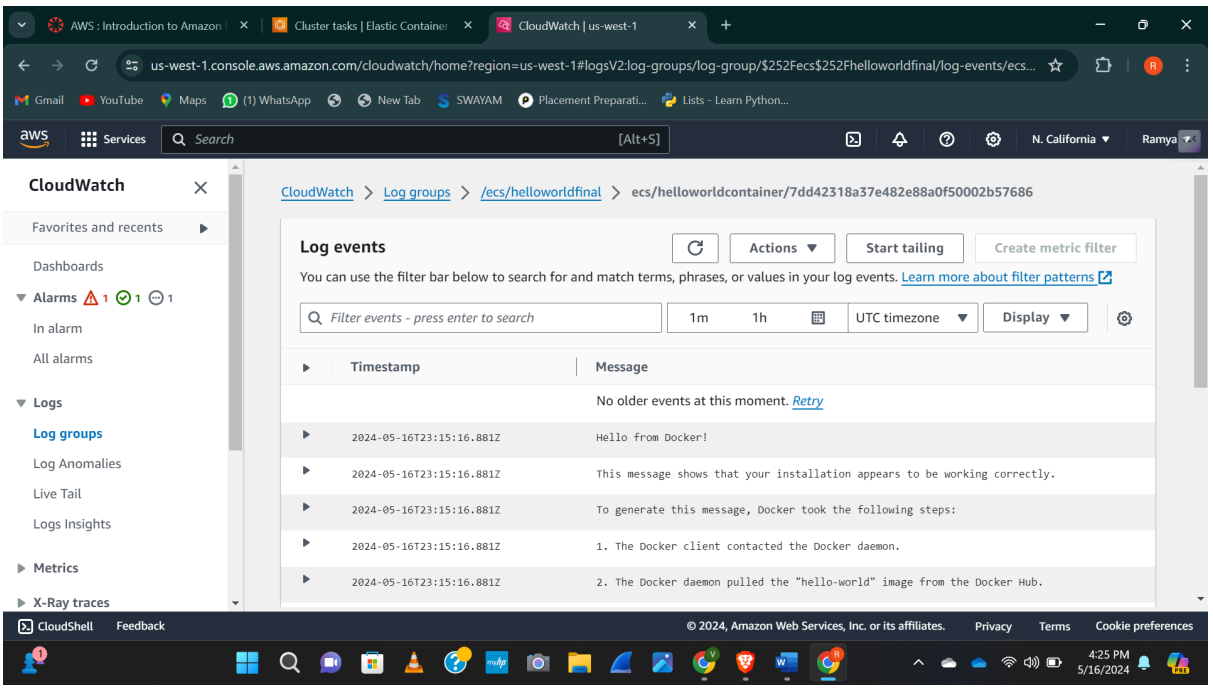
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CloudWatch | us-west-1
us-west-1.console.aws.amazon.com/cloudwatch/home?region=us-west-1#logsV2:log-groups/log-group/$252Fecs$252Fhelloworldfinal/log-events/ecs...
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Log groups
Log Anomalies
Live Tail
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CloudWatch > Log groups > /ecs/helloworldfinal > ecs/helloworldcontainer/7dd42318a37e482e88a0f50002b57686
Log events
Actions
Start tailing
Create metric filter
You can use the filter bar below to search for and match terms, phrases, or values in your log events. Learn more about filter patterns
Filter events - press enter to search
1m 1h
UTC timezone
Display
Timestamp
Message
No older events at this moment. Retry
2024-05-16T23:15:16.881Z Hello from Docker!
2024-05-16T23:15:16.881Z This message shows that your installation appears to be working correctly.
2024-05-16T23:15:16.881Z To generate this message, Docker took the following steps:
2024-05-16T23:15:16.881Z 1. The Docker client contacted the Docker daemon.
2024-05-16T23:15:16.881Z 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
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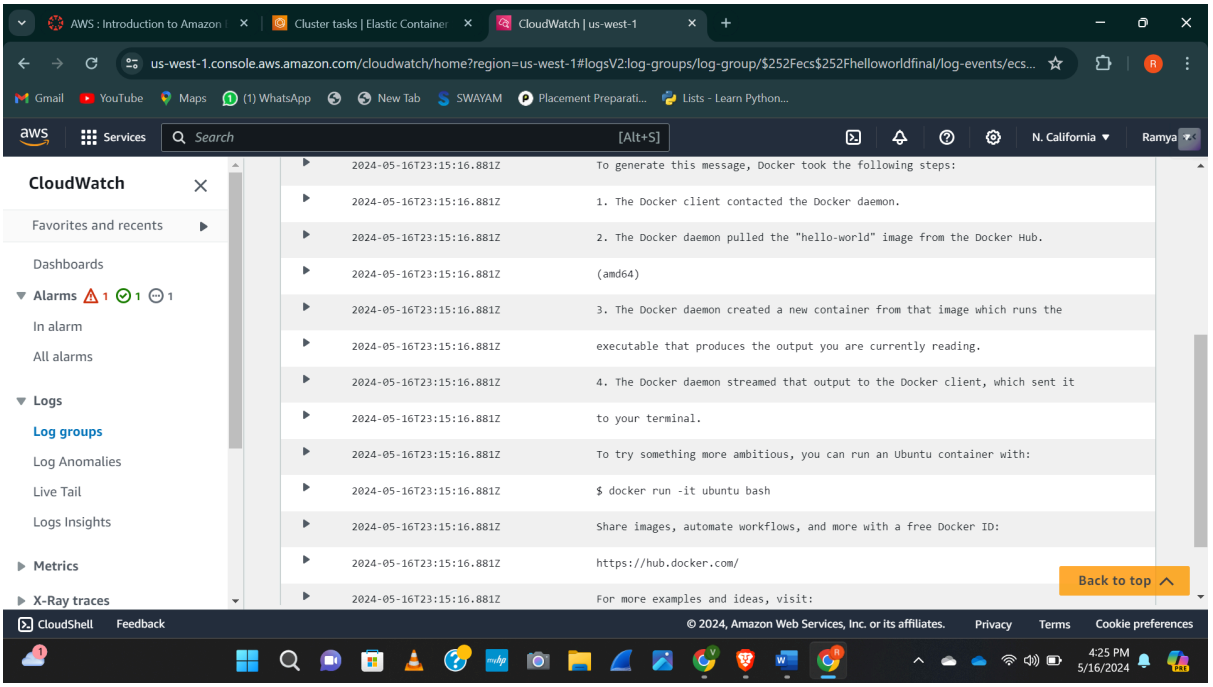
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us-west-1.console.aws.amazon.com/cloudwatch/home?region=us-west-1#logsV2:log-groups/log-group/$252Fecs$252Fhelloworldfinal/log-events/ecs...
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In alarm
All alarms
Logs
Log groups
Log Anomalies
Live Tail
Logs Insights
Metrics
X-Ray traces
2024-05-16T23:15:16.881Z To generate this message, Docker took the following steps:
2024-05-16T23:15:16.881Z 1. The Docker client contacted the Docker daemon.
2024-05-16T23:15:16.881Z 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
2024-05-16T23:15:16.881Z (amd64)
2024-05-16T23:15:16.881Z 3. The Docker daemon created a new container from that image which runs the
2024-05-16T23:15:16.881Z executable that produces the output you are currently reading.
2024-05-16T23:15:16.881Z 4. The Docker daemon streamed that output to the Docker client, which sent it
2024-05-16T23:15:16.881Z to your terminal.
2024-05-16T23:15:16.881Z To try something more ambitious, you can run an Ubuntu container with:
2024-05-16T23:15:16.881Z $ docker run -it ubuntu bash
2024-05-16T23:15:16.881Z Share images, automate workflows, and more with a free Docker ID:
2024-05-16T23:15:16.881Z https://hub.docker.com/
2024-05-16T23:15:16.881Z For more examples and ideas, visit:
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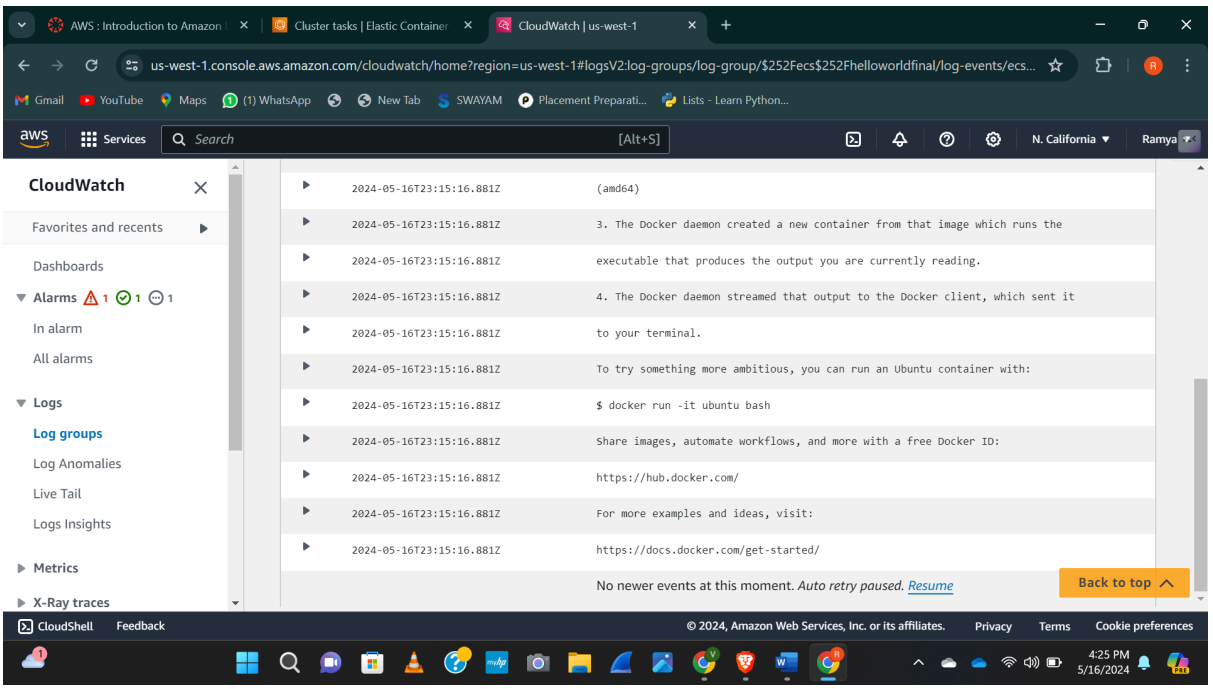
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2024-05-16T23:15:16.881Z (amd64)
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2024-05-16T23:15:16.881Z For more examples and ideas, visit:
2024-05-16T23:15:16.881Z https://docs.docker.com/get-started/
No newer events at this moment. Auto retry paused. Resume
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