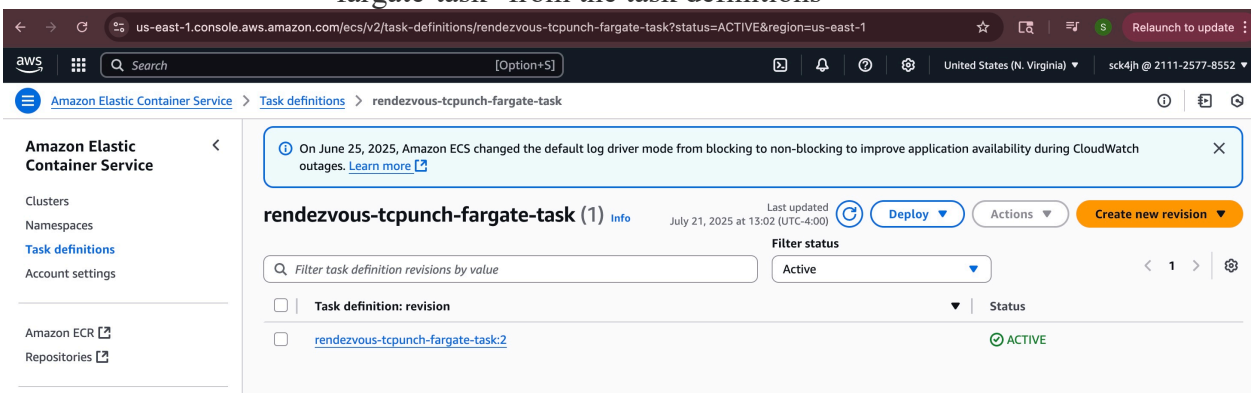
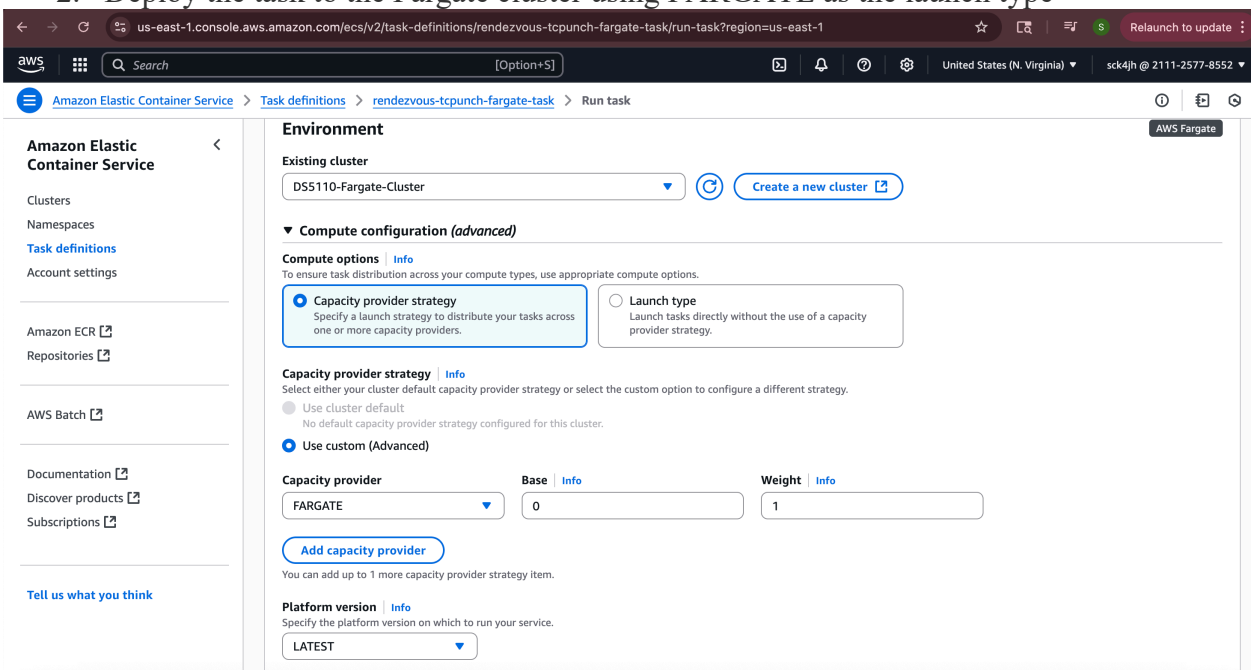
Assignment 2: Rendezvous Server

Team 4: Sam Knisely, Darreion Bailey

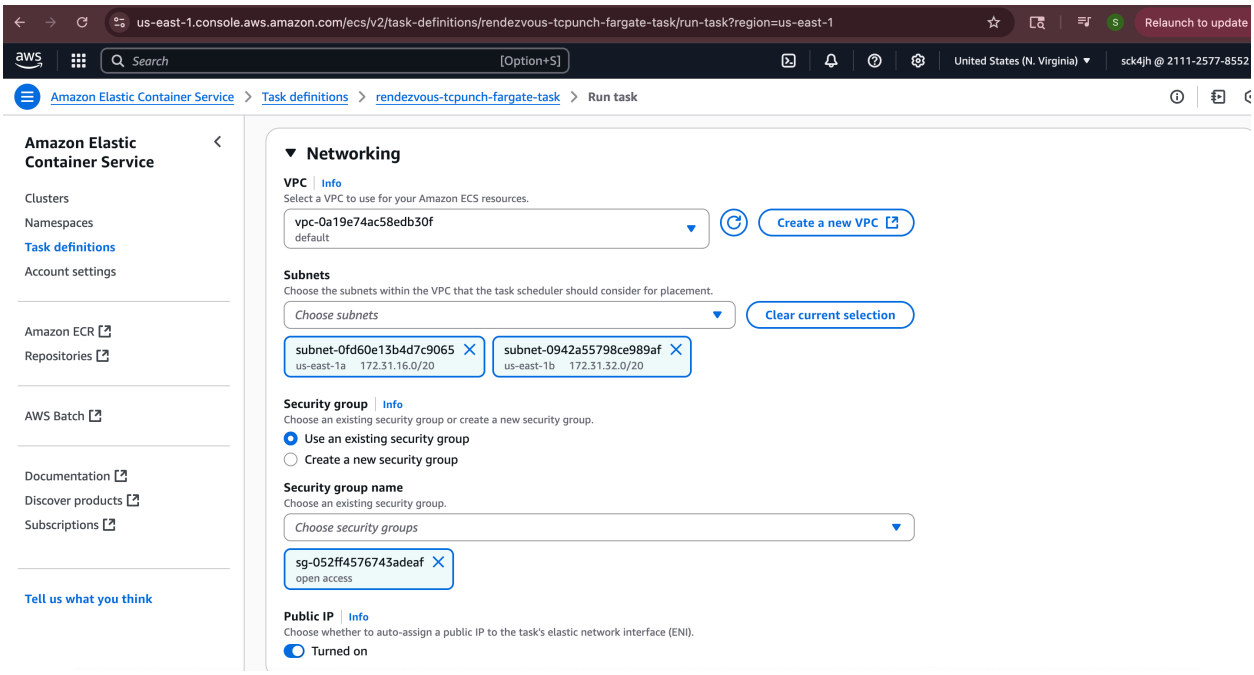
1. Navigate to AWS Elastic Container Service (ECS) and select the "rendezvous-tcpunch-fargate-task" from the task definitions

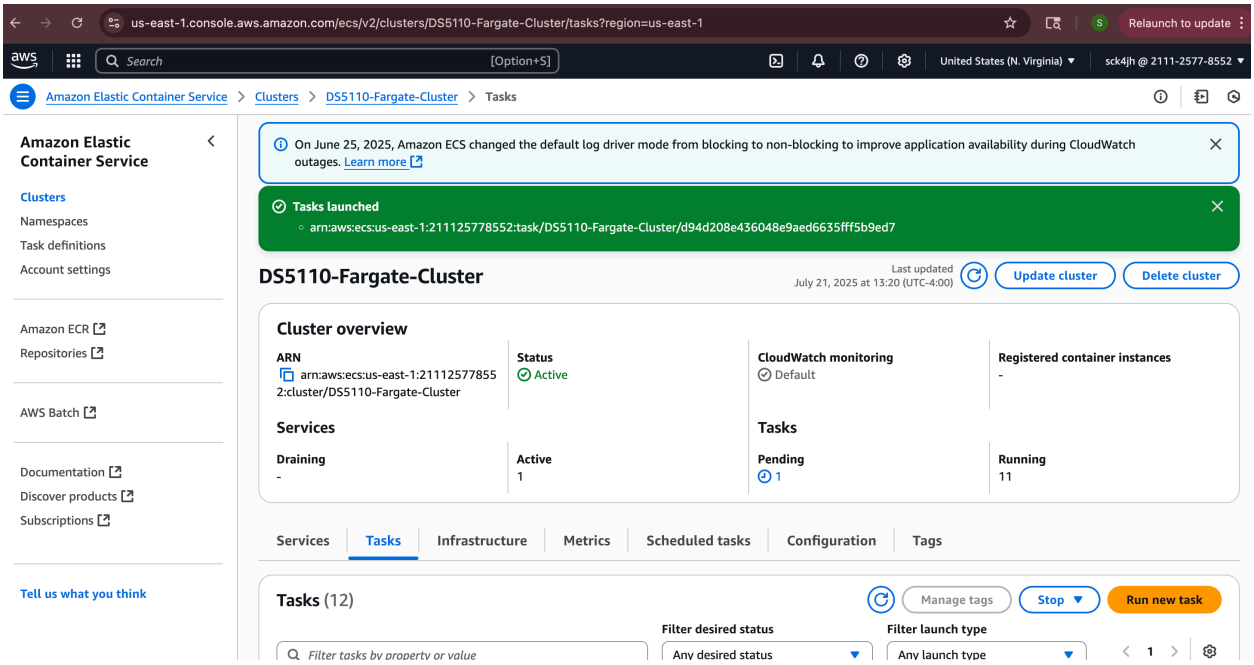


2. Deploy the task to the Fargate cluster using FARGATE as the launch type

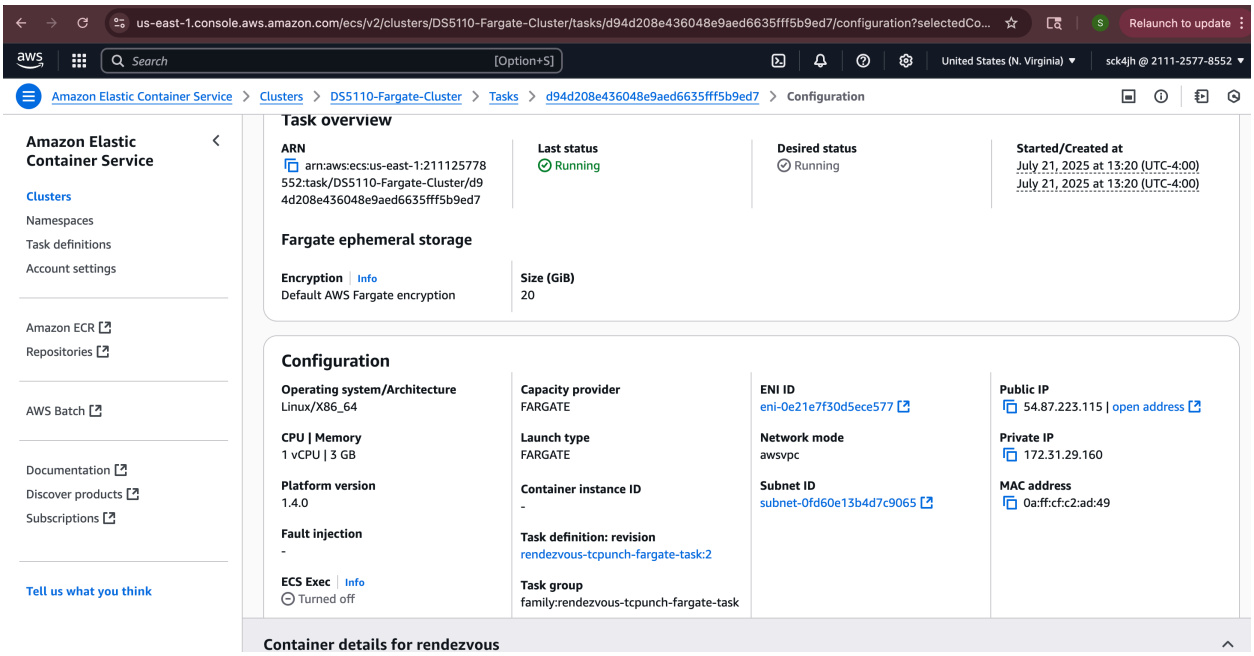


3. Configure the networking settings with the "open access" security group

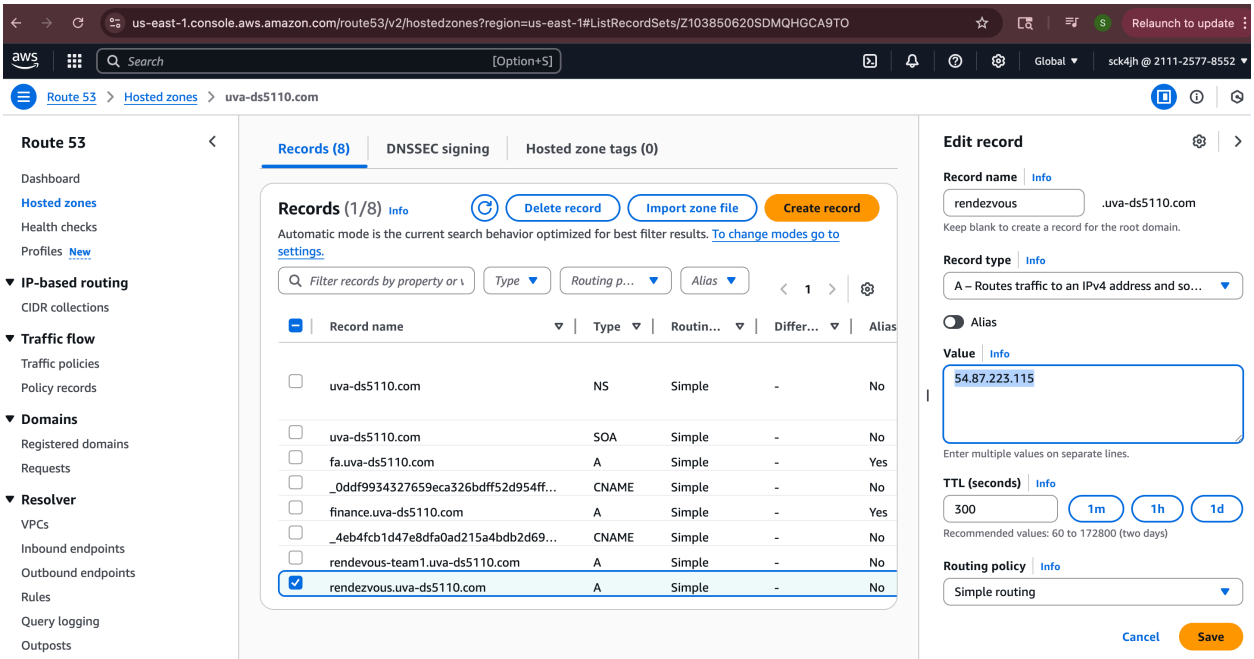


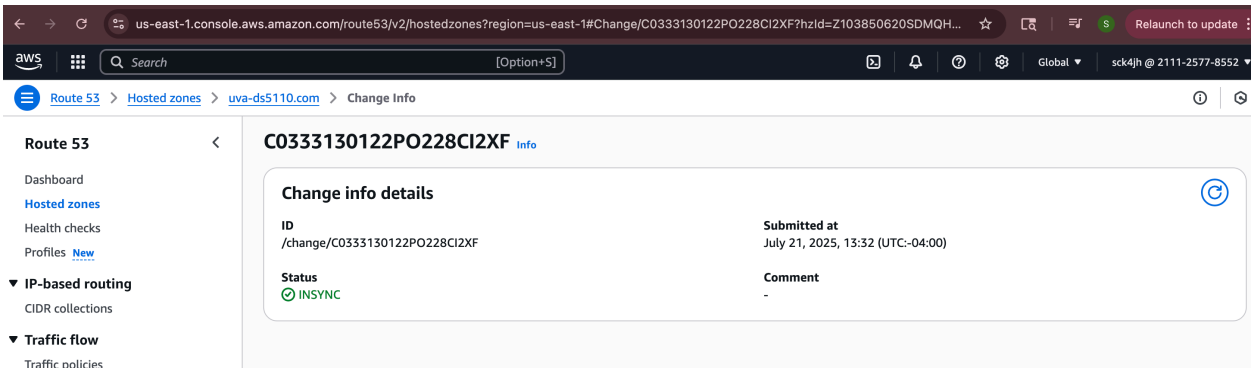


4. Retrieve the public IP address of the deployed task

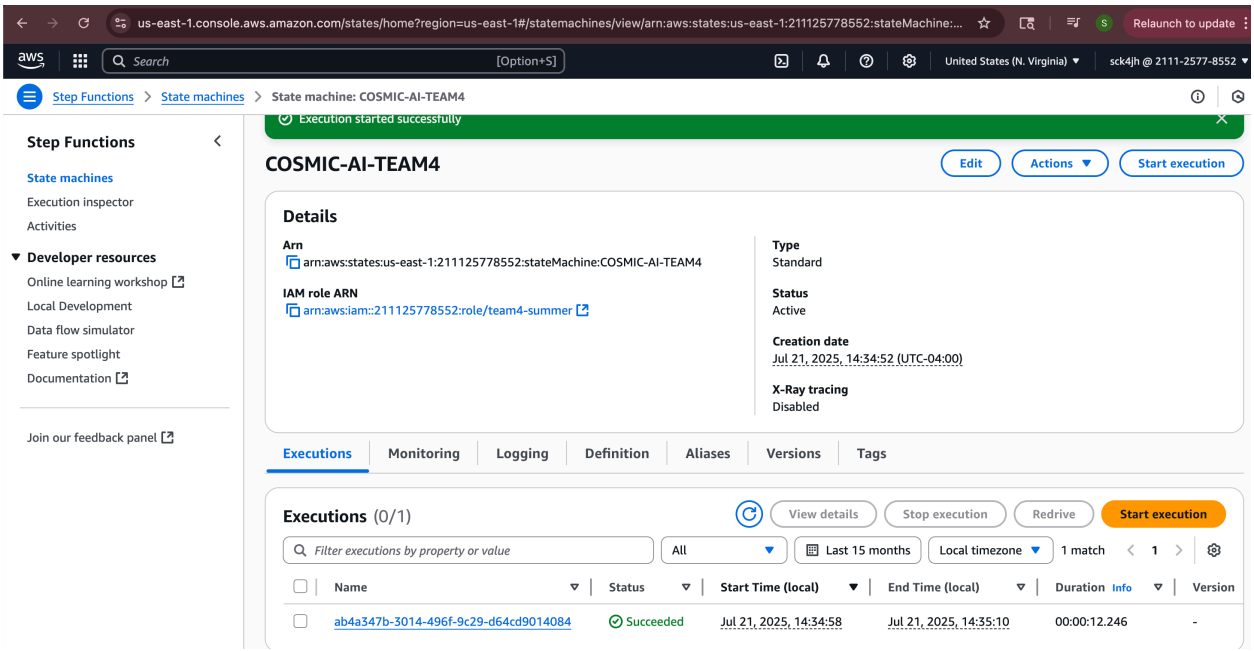


5. Update the DNS record in Route 53 for "rendezvous.uva-ds5110.com" with your task's IP address





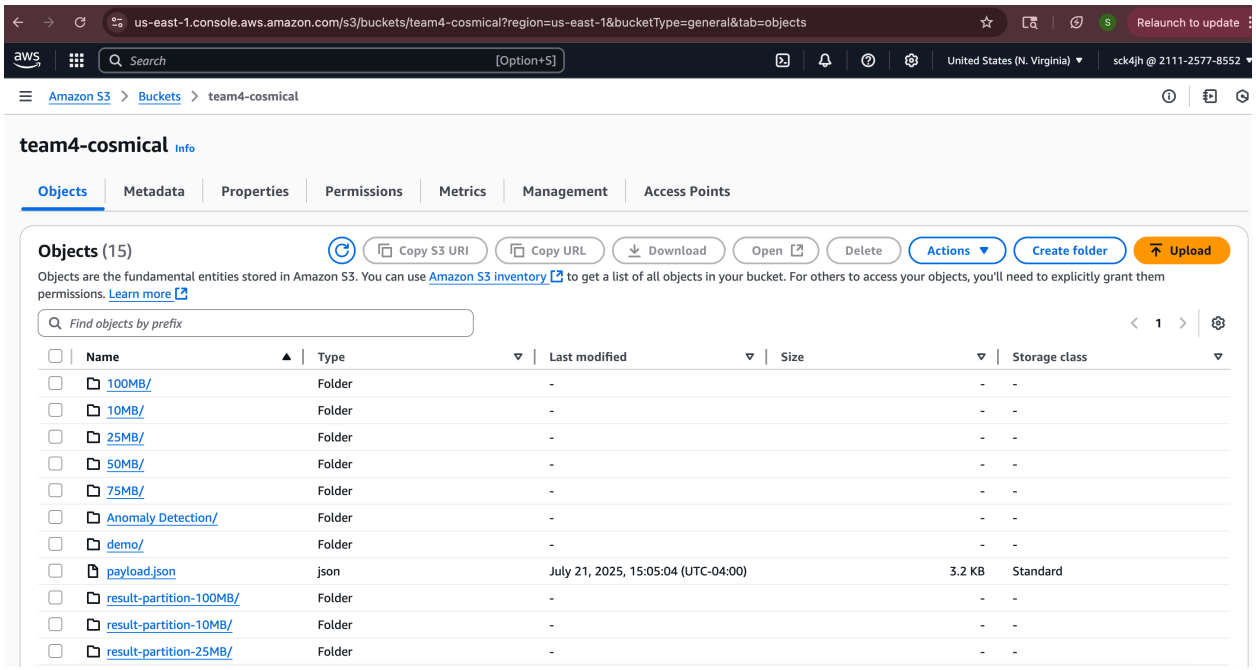
6. Verify the server is accessible by performing a connection test



Rubric Items:

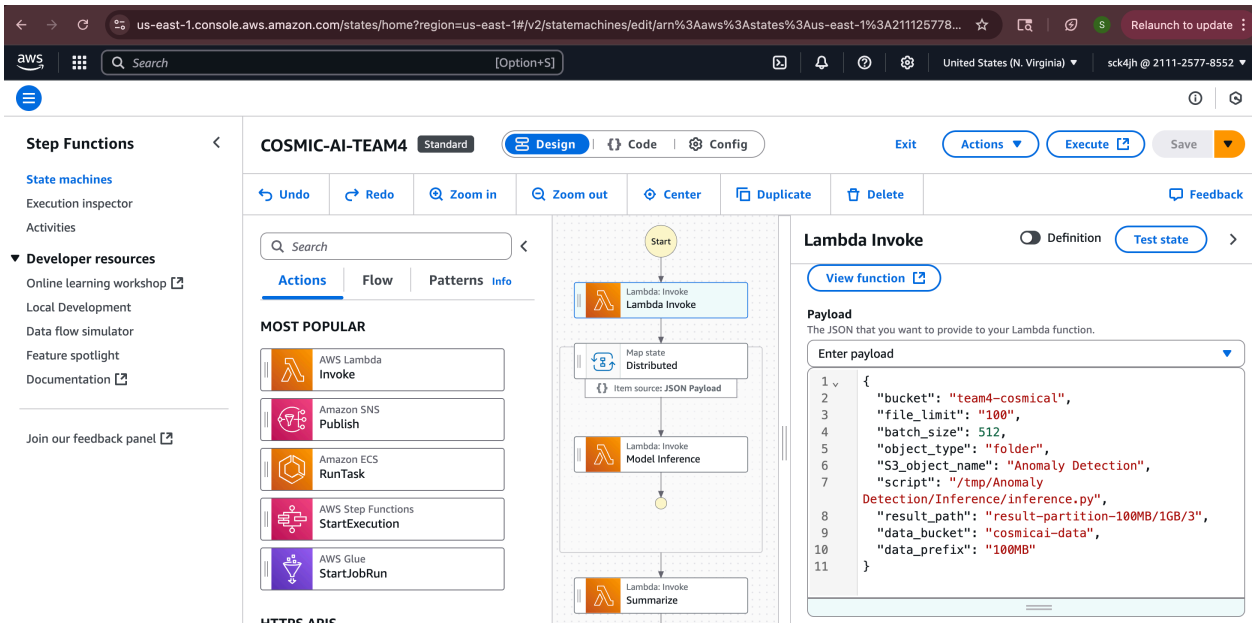
1-2. Created S3 Bucket (e.g. team4-cosmical); Clone repos

We are actually team4 so we created team4-cosmical and cloned cosmicai-data S3 bucket into it. See screenshot below:

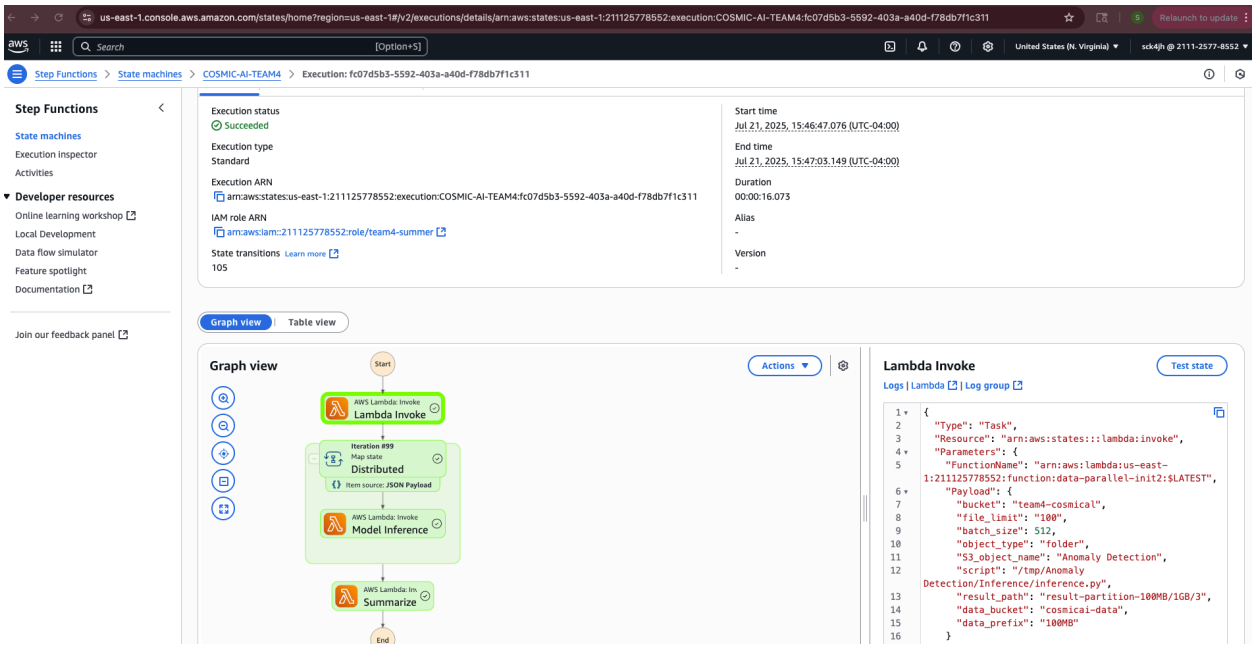


3. Edit Payload – Updating parameters (world size, bucket) in our Cosmic AI state machine in the Lamba Init State

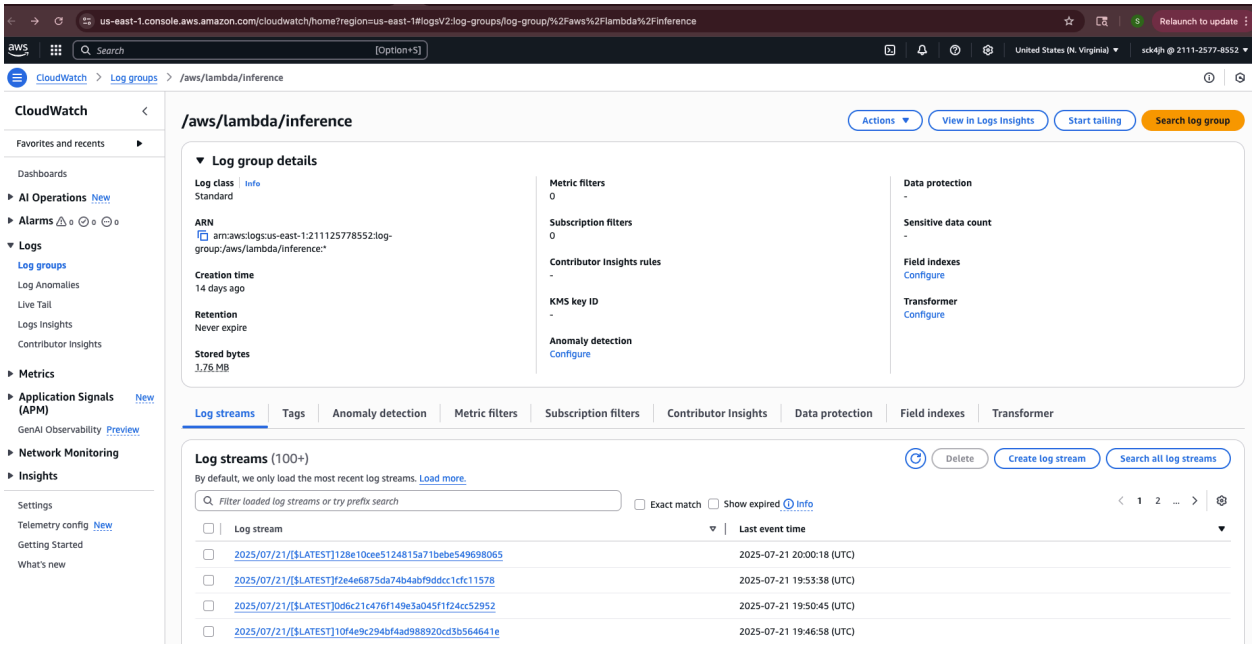
Here we use world size (i.e., file limit = 100) and utilize our team4-cosmical S3 bucket.



4. Successful Step Function Execution



5. Cloudwatch logs



6. Performance Measurement across varying data sizes

World Size	Partition	Requests	Duration (s)	Memory	Cost ($)
100	100MB	10018	2.64	1.4	0.62
50	100MB	5008	2.86	1.8	0.43
11	100MB	3327	1.87	1.9	0.2