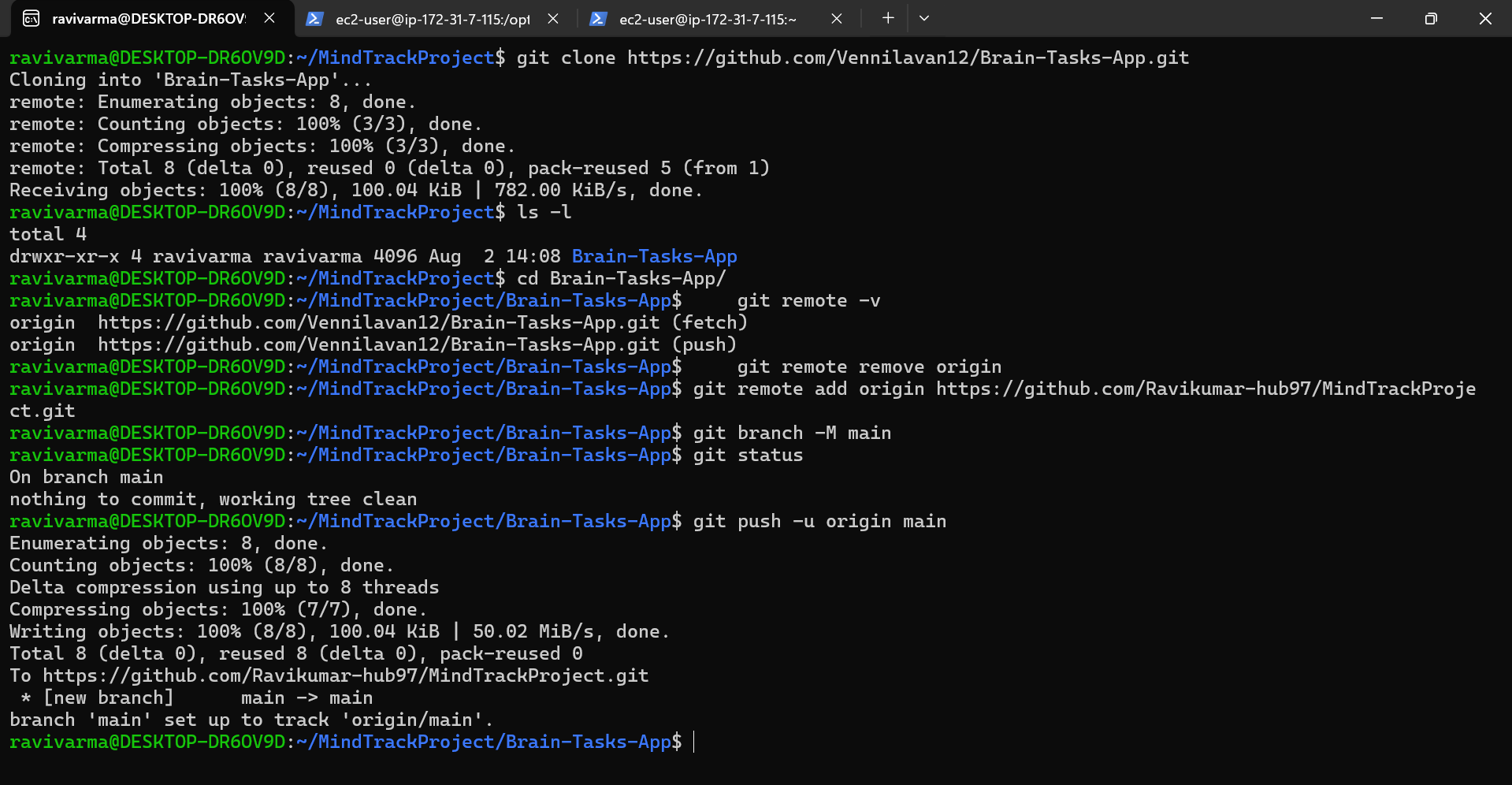
**Application Deployment**

(Deploy the given React application to a production ready state)

**Application:**

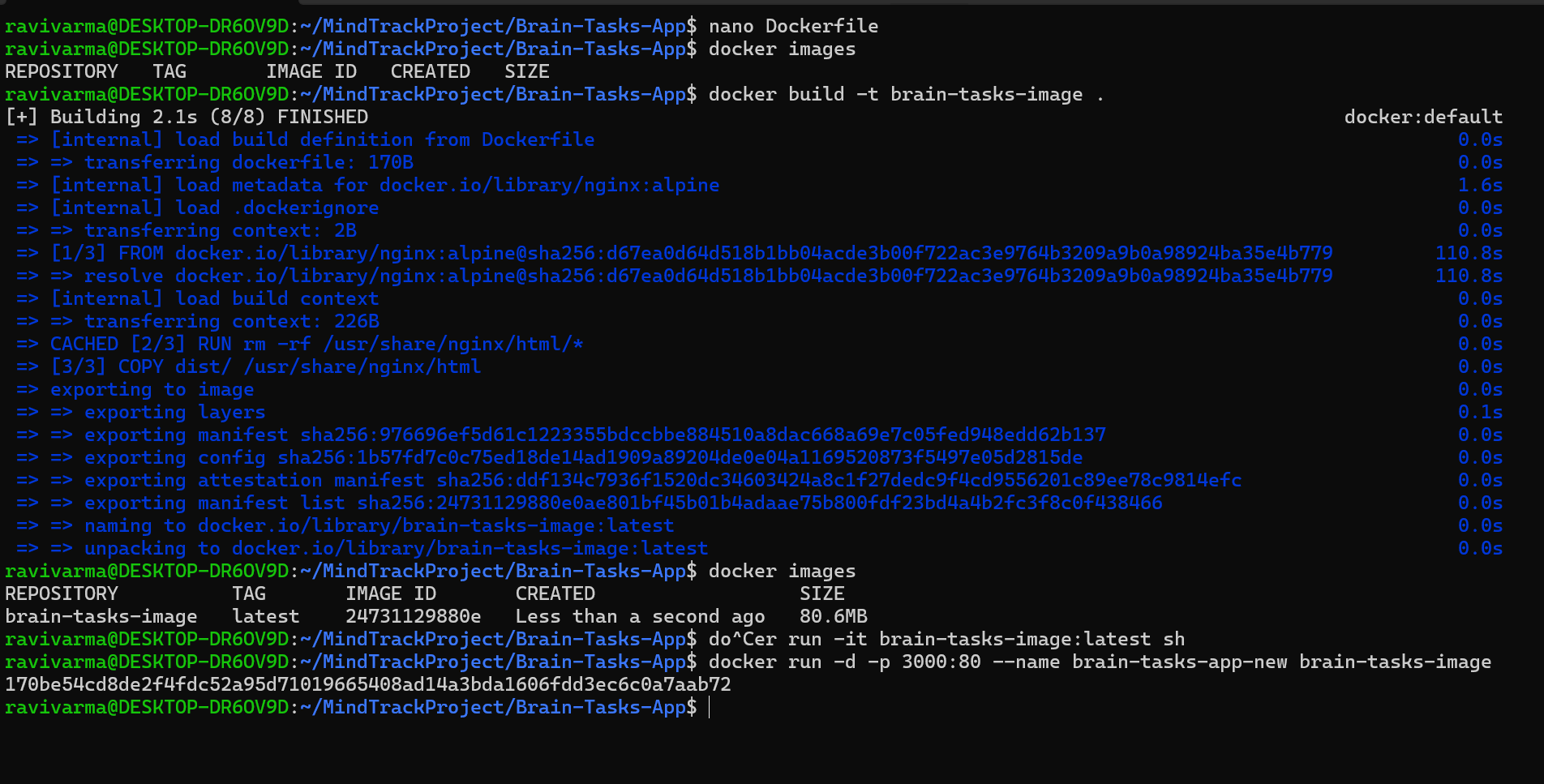
Clone the below mentioned repository and deploy the application (Run application in port 3000).

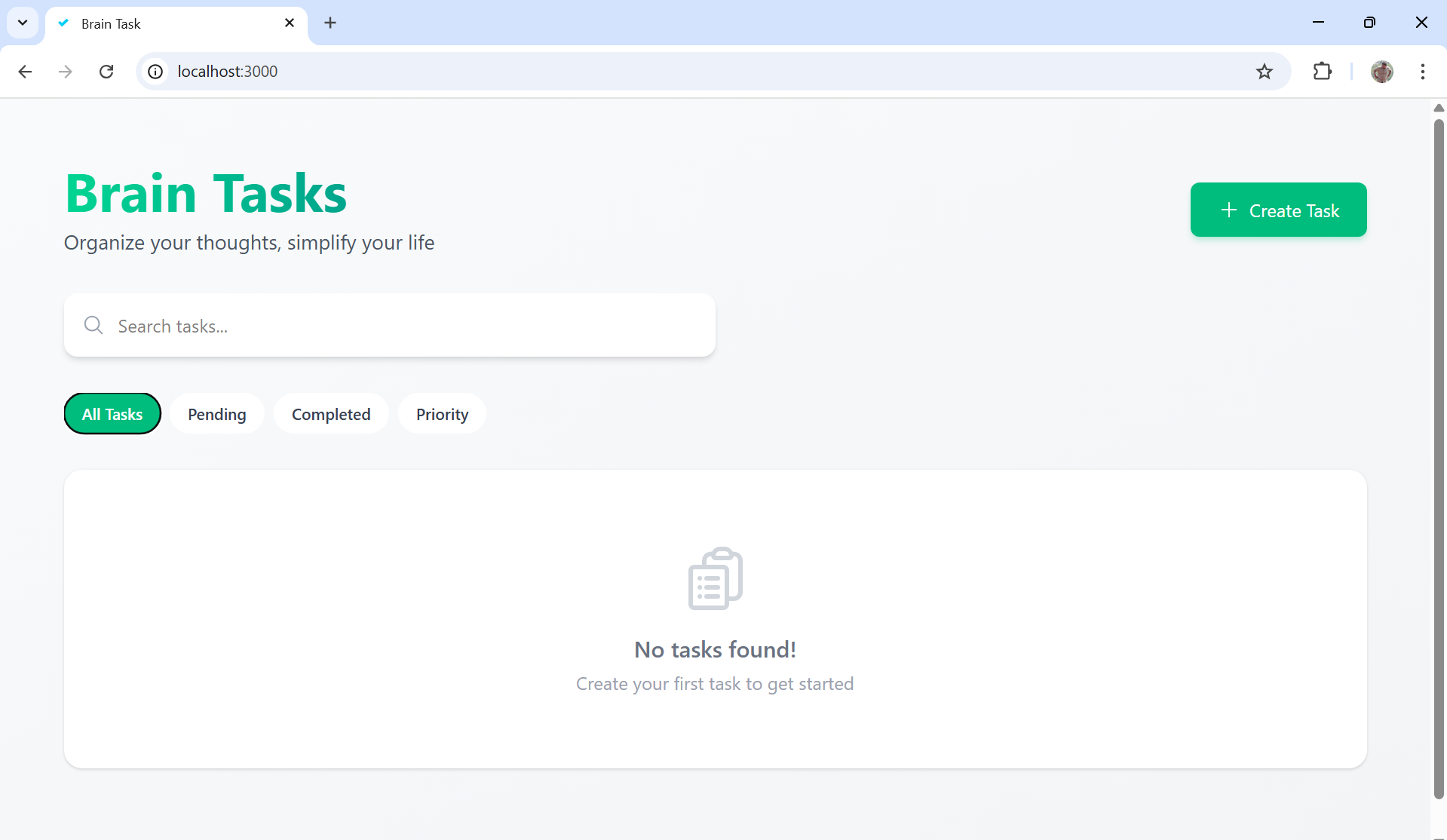
Repo URL : <https://github.com/Vennilavan12/Brain-Tasks-App.git>



**Docker:**

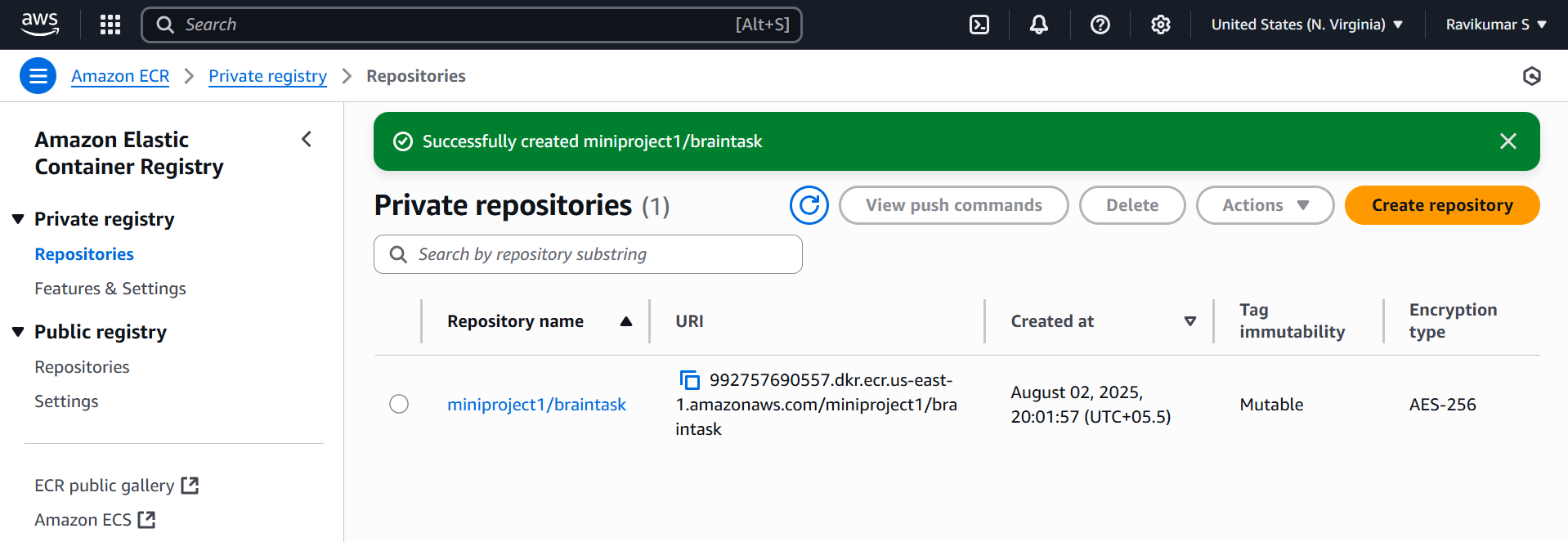
* Dockerize the application by creating Dockerfile
* Build an application and check output using docker image.

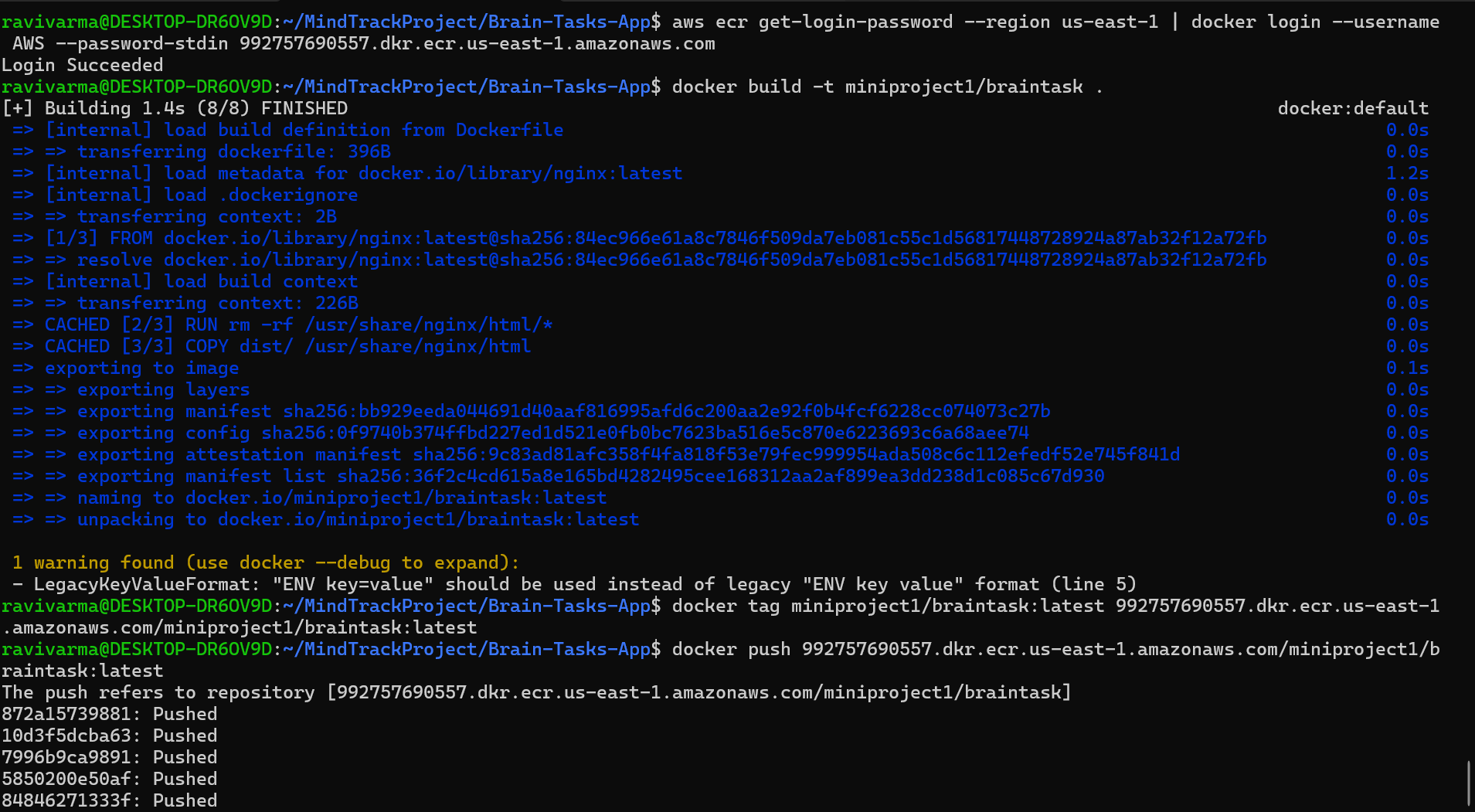


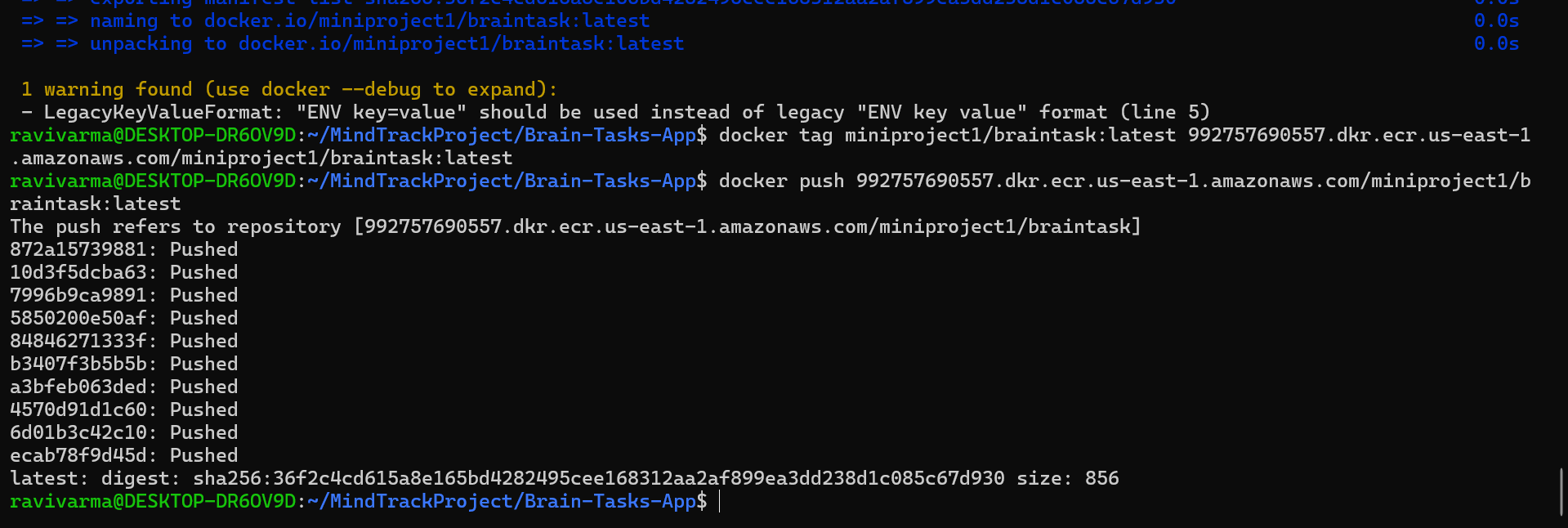


**ECR:**

* Create an AWS ECR repository for store docker images.

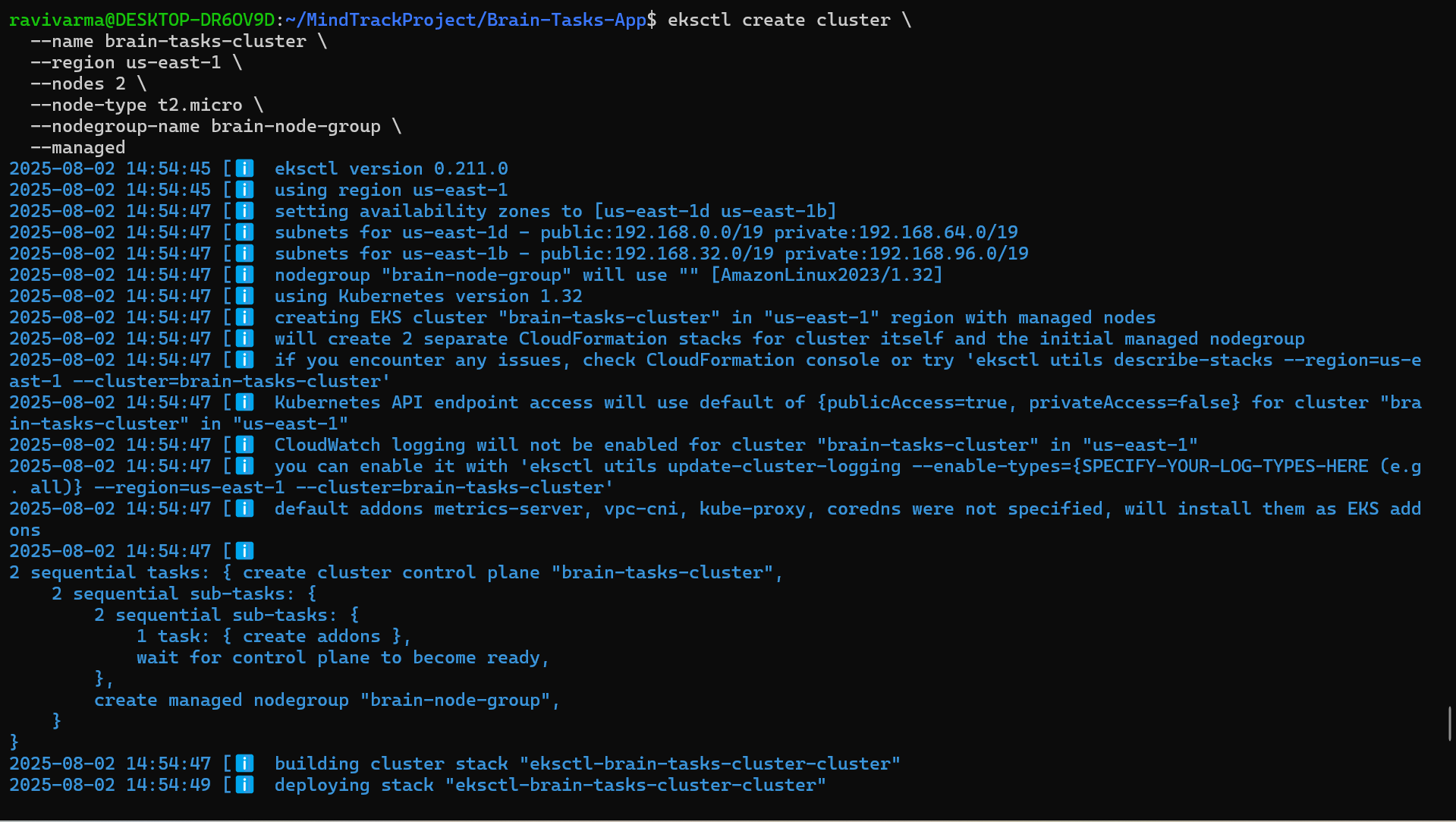


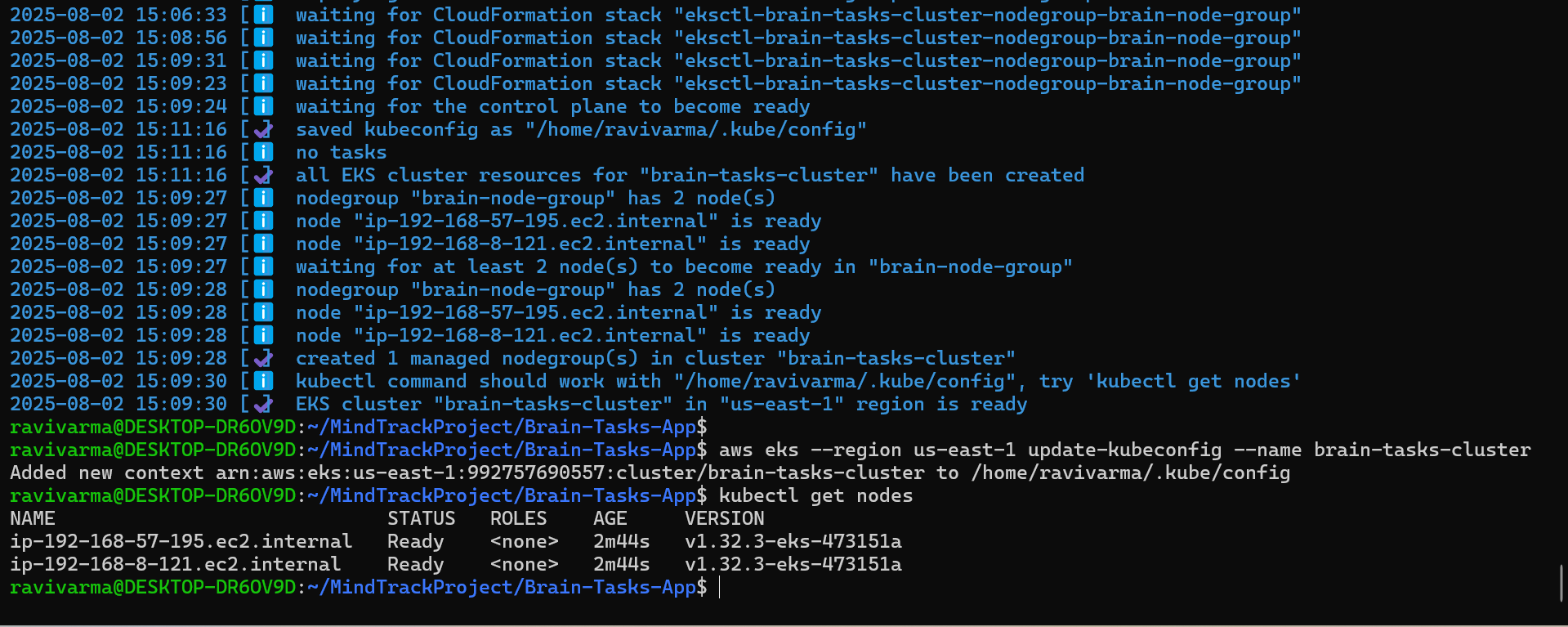


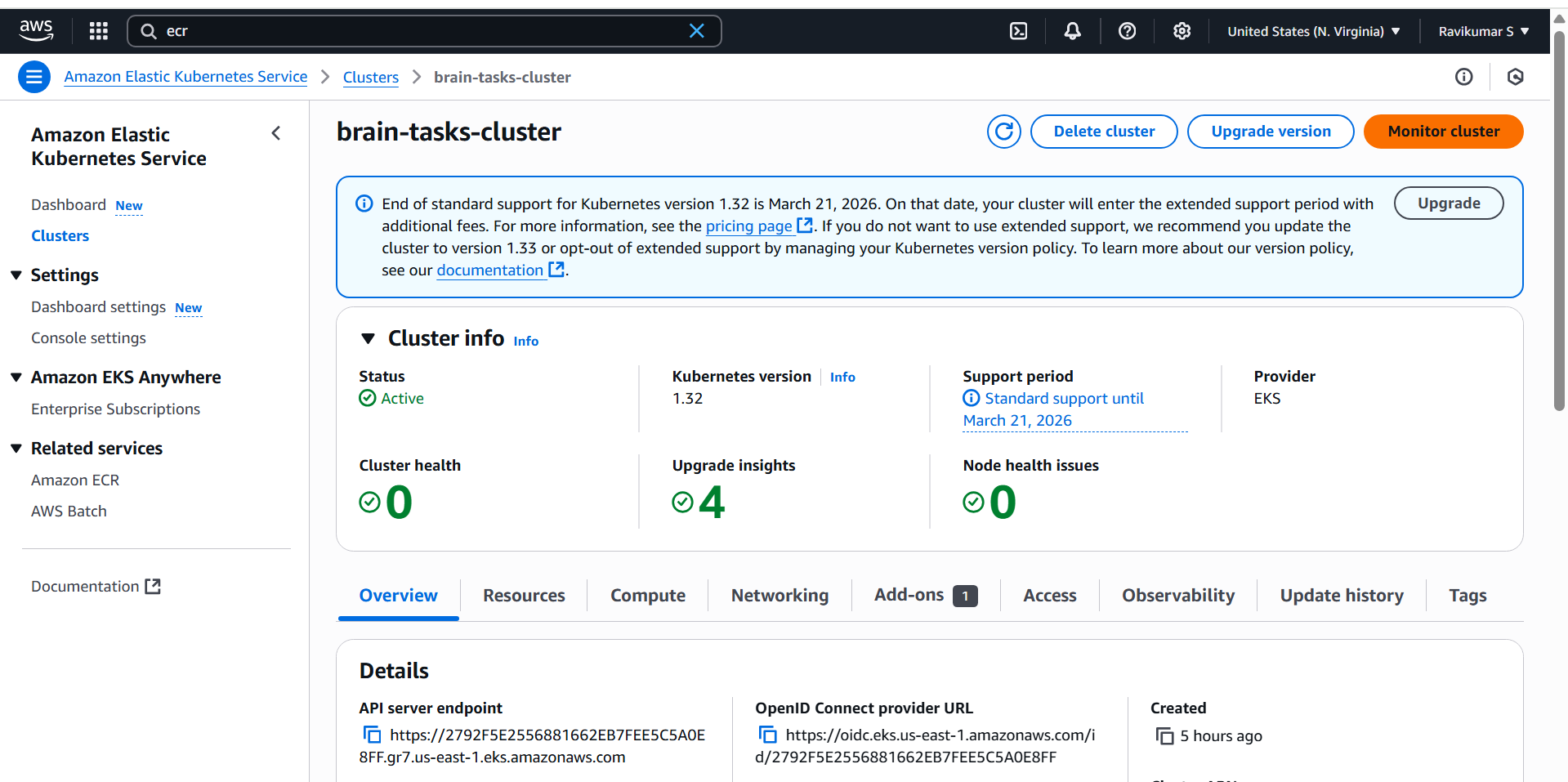


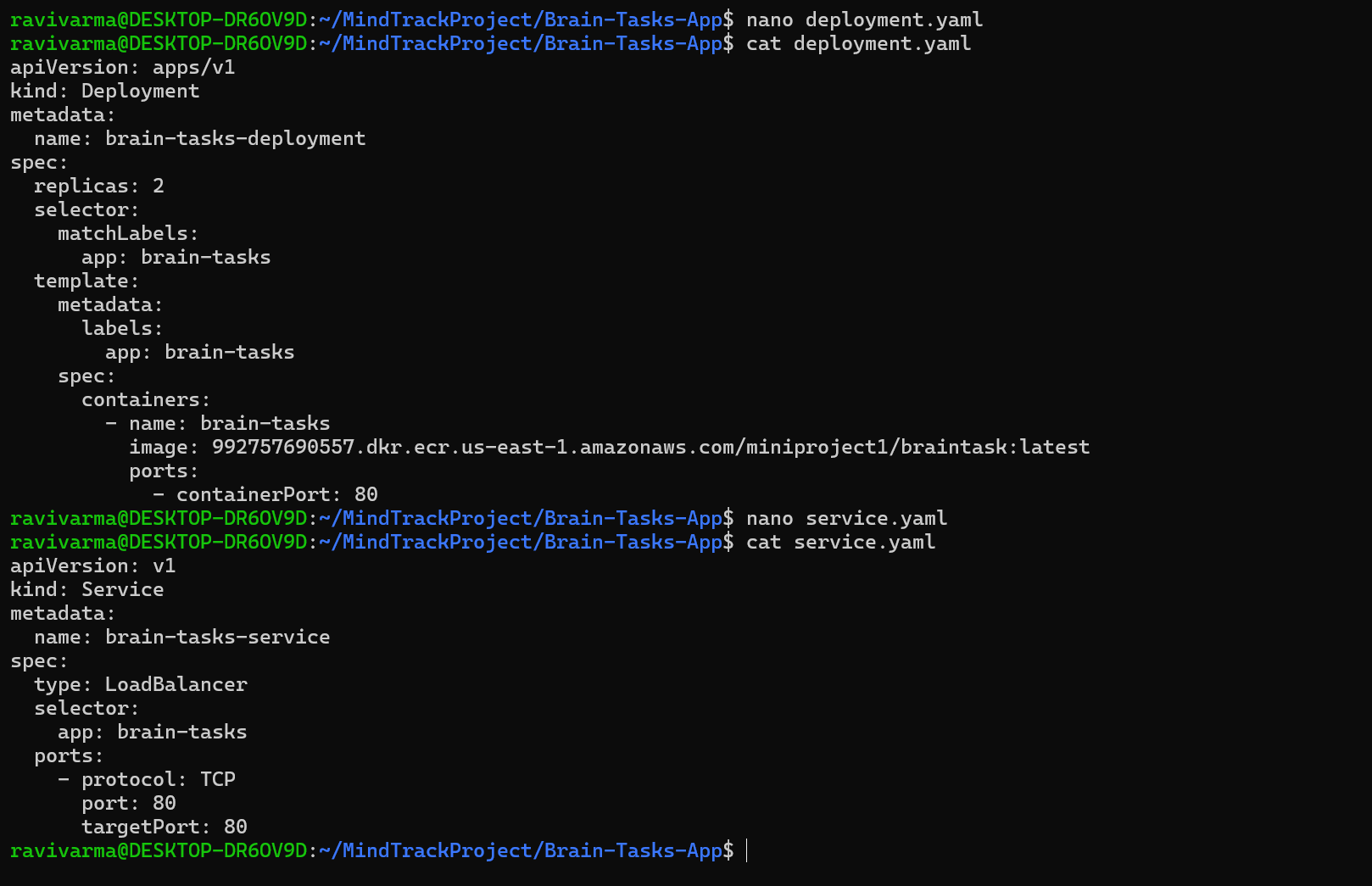
**Kubernetes:**

* Setup Kubernetes in AWS EKS and Confirm EKS cluster is running.
* Write deployment and service YAML files.
* Deploy using kubectl via Codedeploy.



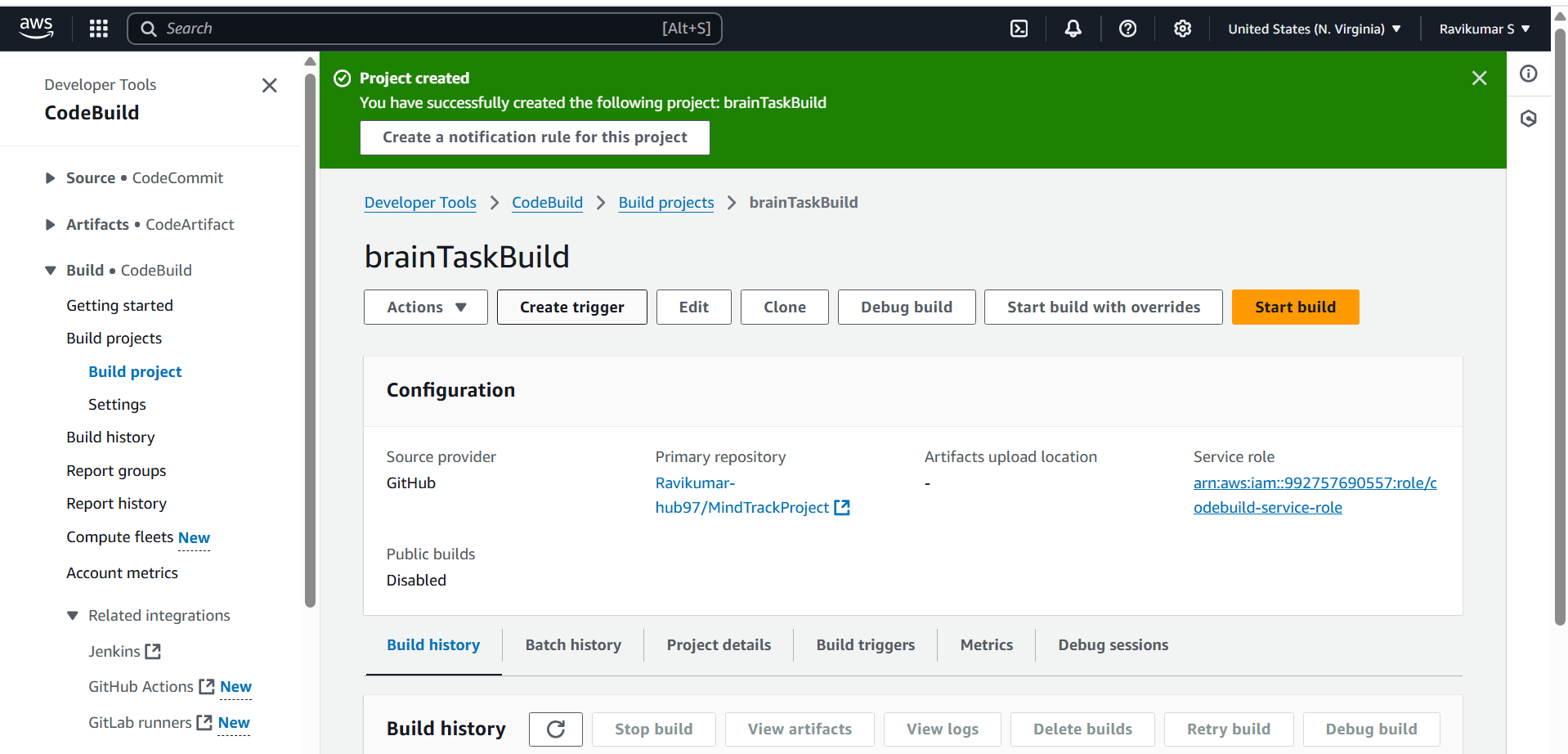


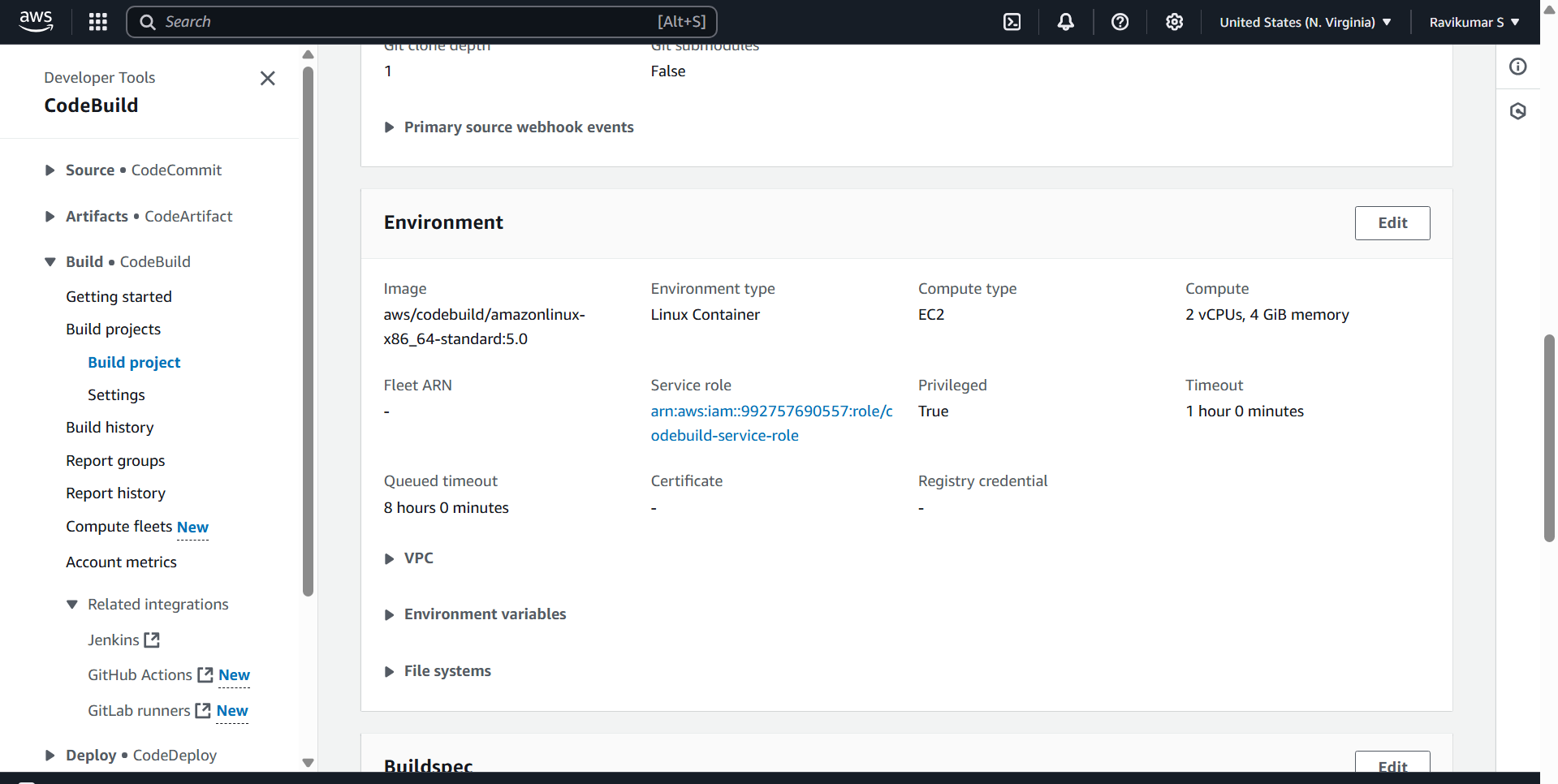




**CodeBuild:**

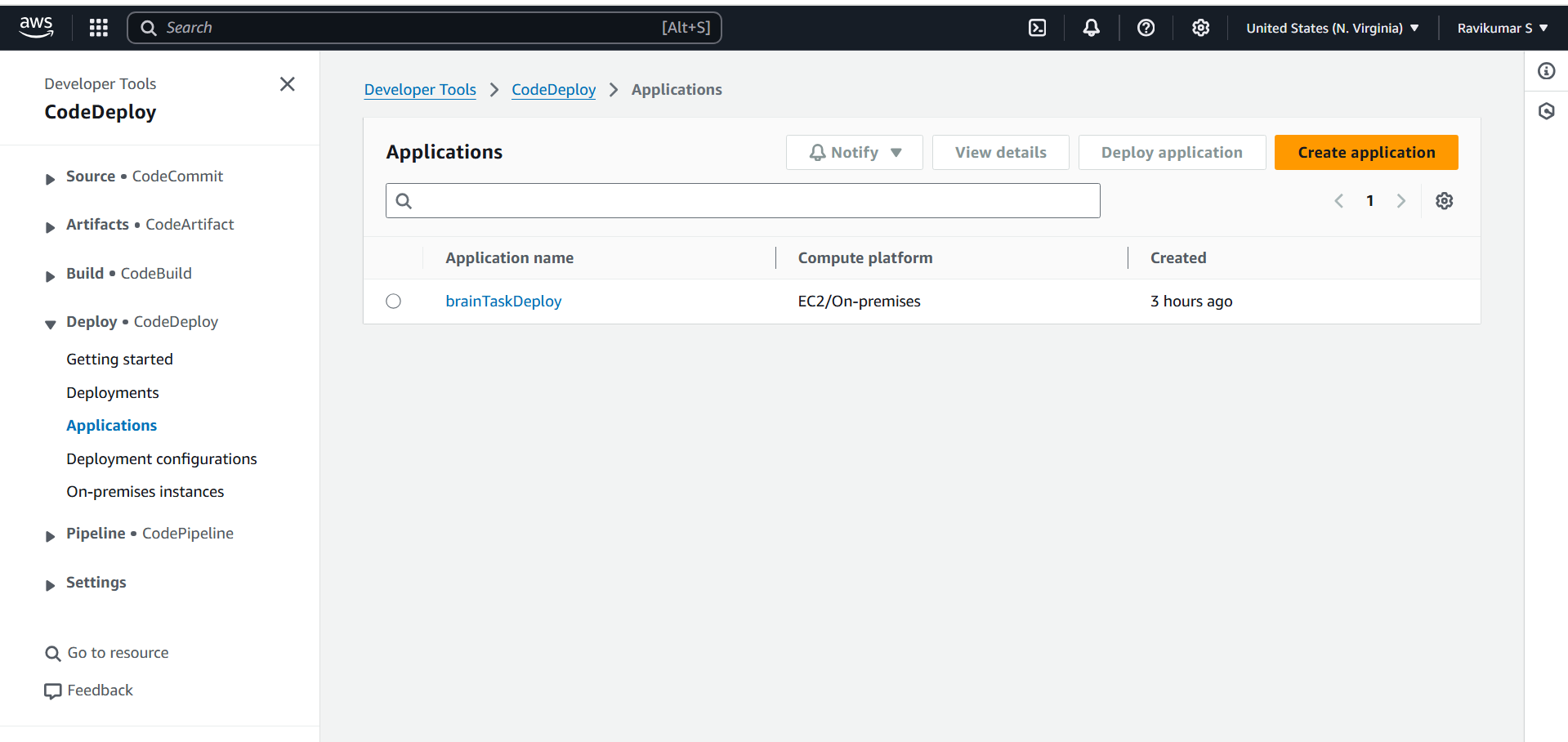
* Create a CodeBuild project:
* Source: Connect to your repository
* Environment: Use managed image (Amazon Linux, Ubuntu)
* Write and define commands in buildspec.yml.





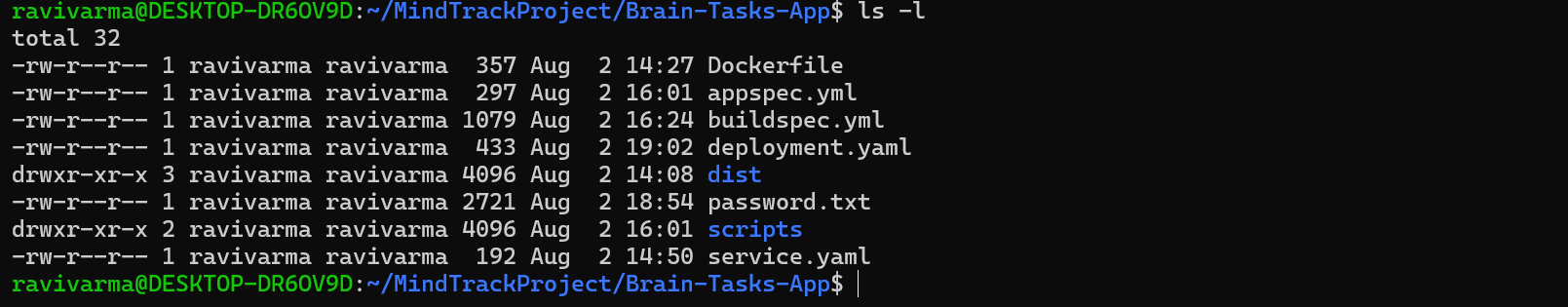
**CodeDeploy:**

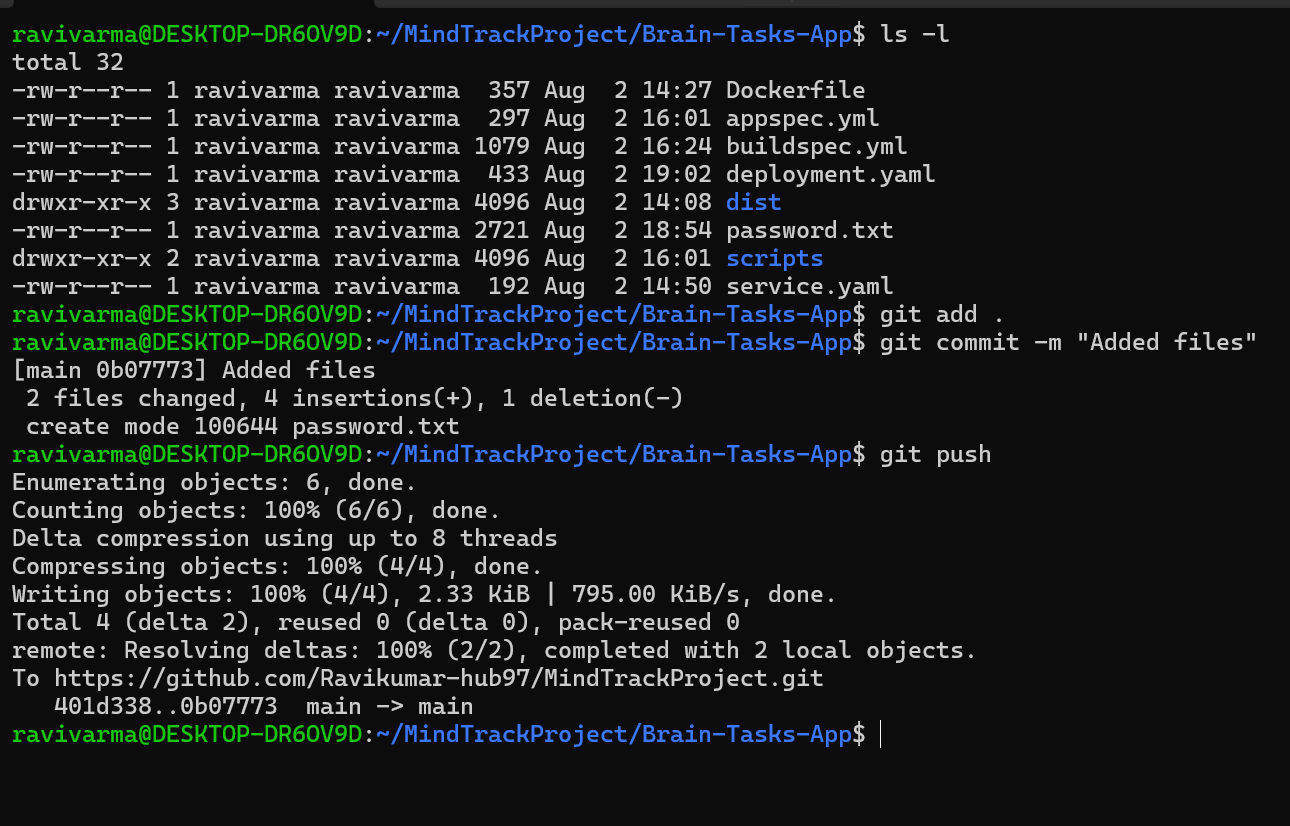
* Create codedeploy application.
* create appspec.yml file to deploy applications in EKS.



**Version Control:**

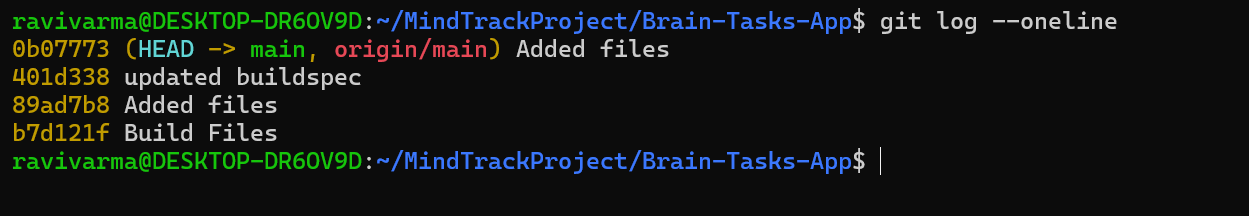
* Push the codebase to a Git provider (GitHub).
* Use CLI commands to push code.

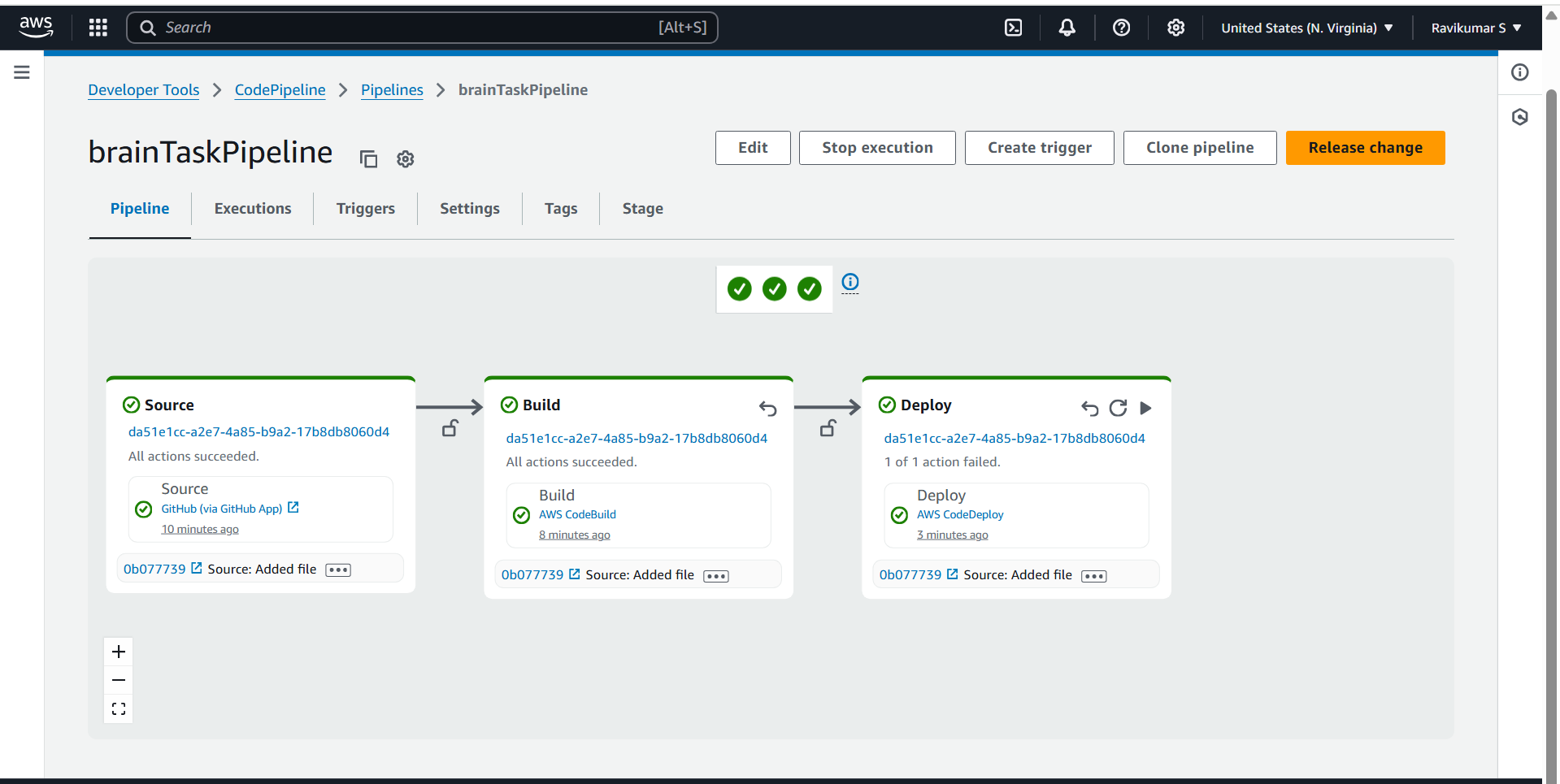




**CodePipeline:**

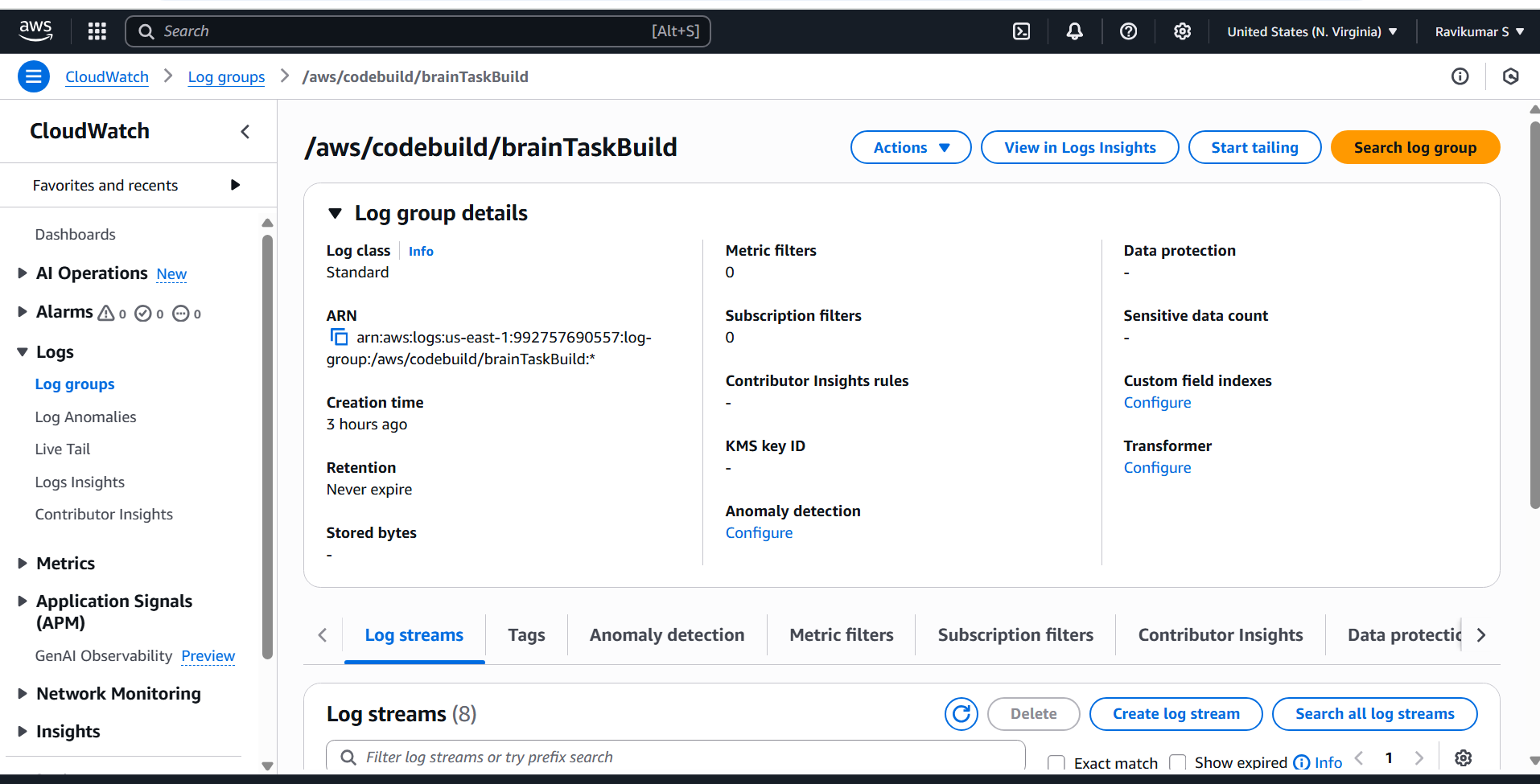
* Source: GitHub
* Build: AWS CodeBuild project
* Deploy: AWS CodeDeploy or deploy to EKS via Lambda or custom script.

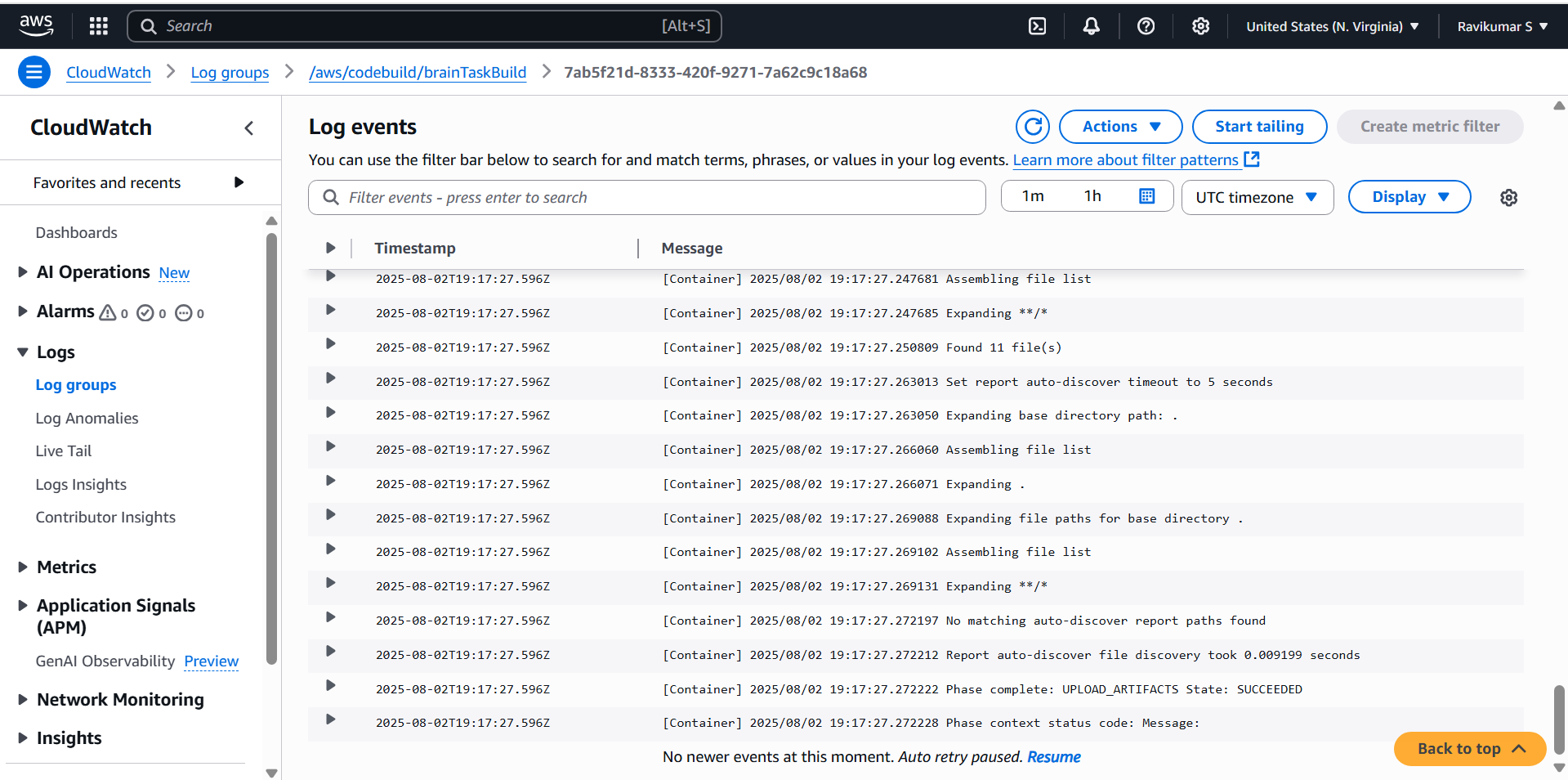




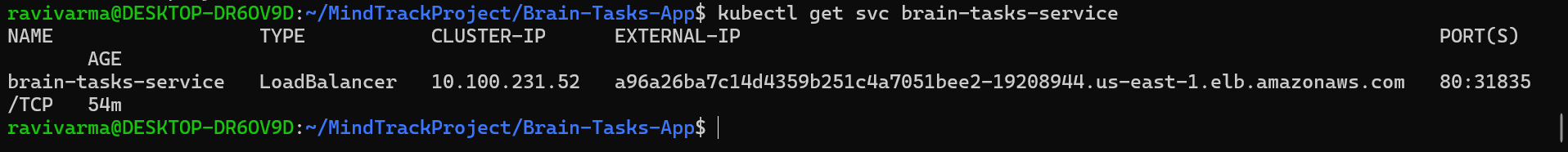
**Monitoring:**

* Use CloudWatch Logs to track build, deploy, and application logs.





Final deployment:



Loadbalancer url: a96a26ba7c14d4359b251c4a7051bee2-19208944.us-east-1.elb.amazonaws.com

