My Contribution and Progress at Gyzertech

CI/CD IMPLEMENTATION | KUBERNETES | MONITORING

PRESENTED BY: FESTUS OKAGBARE

DATE: 1/07/2025

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Introduction

- Joined as DevOps Engineer
- Focused on automation, CI/CD, containerization, and monitoring

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What I Was Tasked With

- Implement CI/CD pipelines
- Containerize applications (app1, app2)
- Deploy to Azure VM and Kubernetes
- Set up monitoring (New Relic)

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What I Have Done So Far

- CI/CD pipelines for app1 (Dev & Staging), app2 (Dev & Staging)
- Dockerized applications
- Deployed to Azure VM and Kubernetes Cluster
- Set up monitoring using New Relic

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Screenshots – What's Working

- CI/CD pipeline run status (Success)
- Docker container running on Azure VM
- Kubernetes pods active (kubectl get pods)
- New Relic Dashboard showing live data

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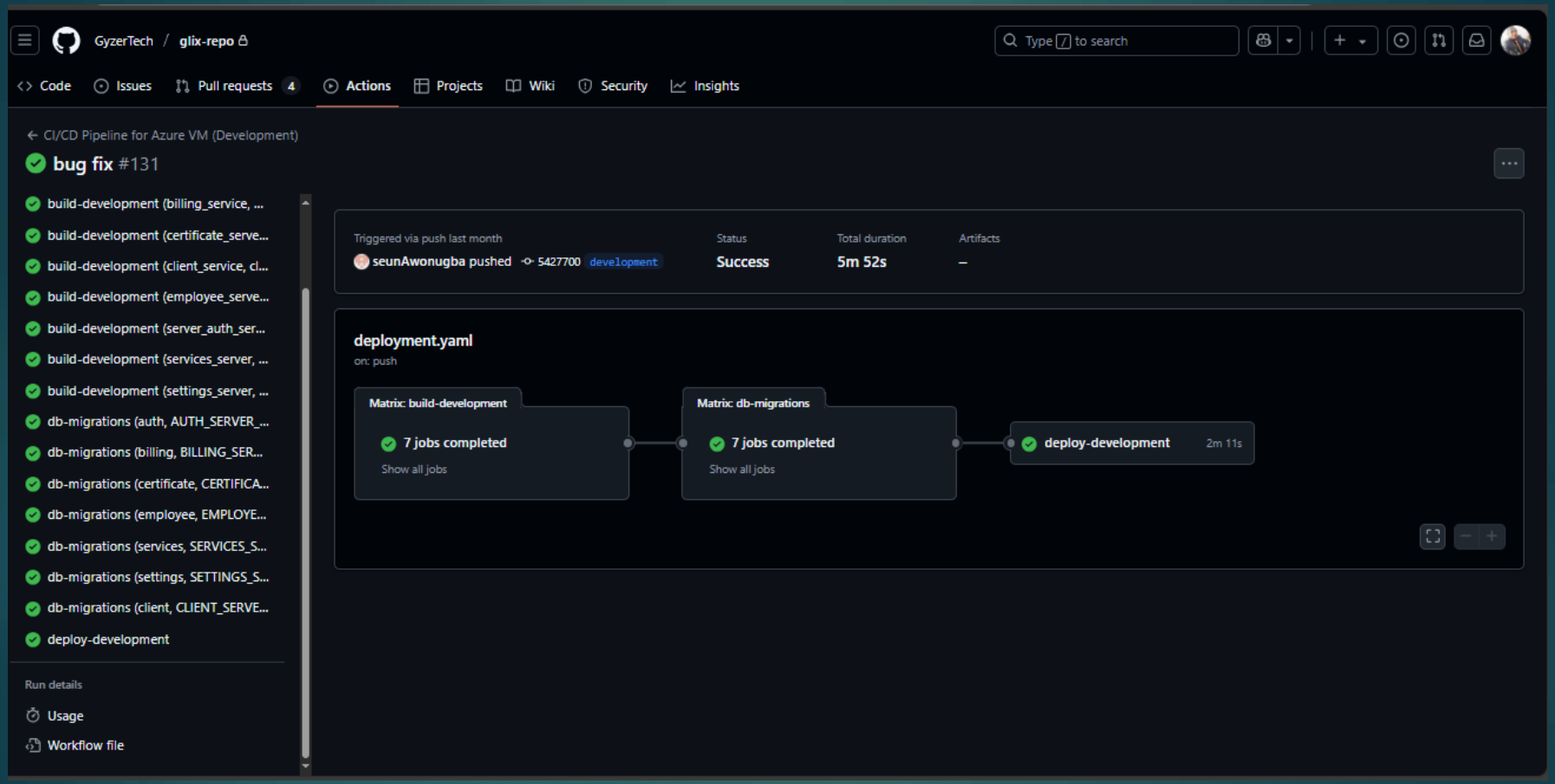
App1 development branch CICD successful deployment



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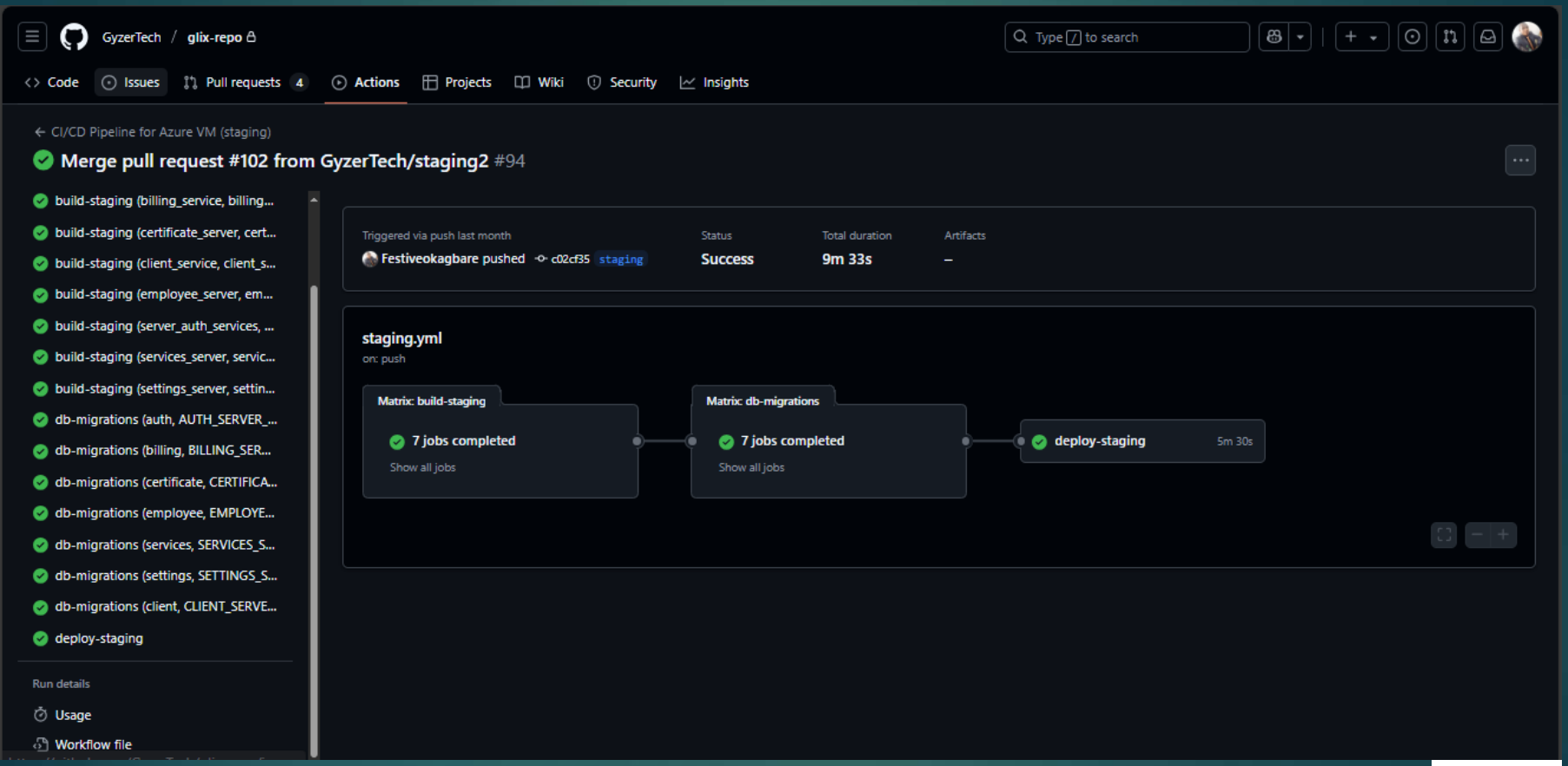
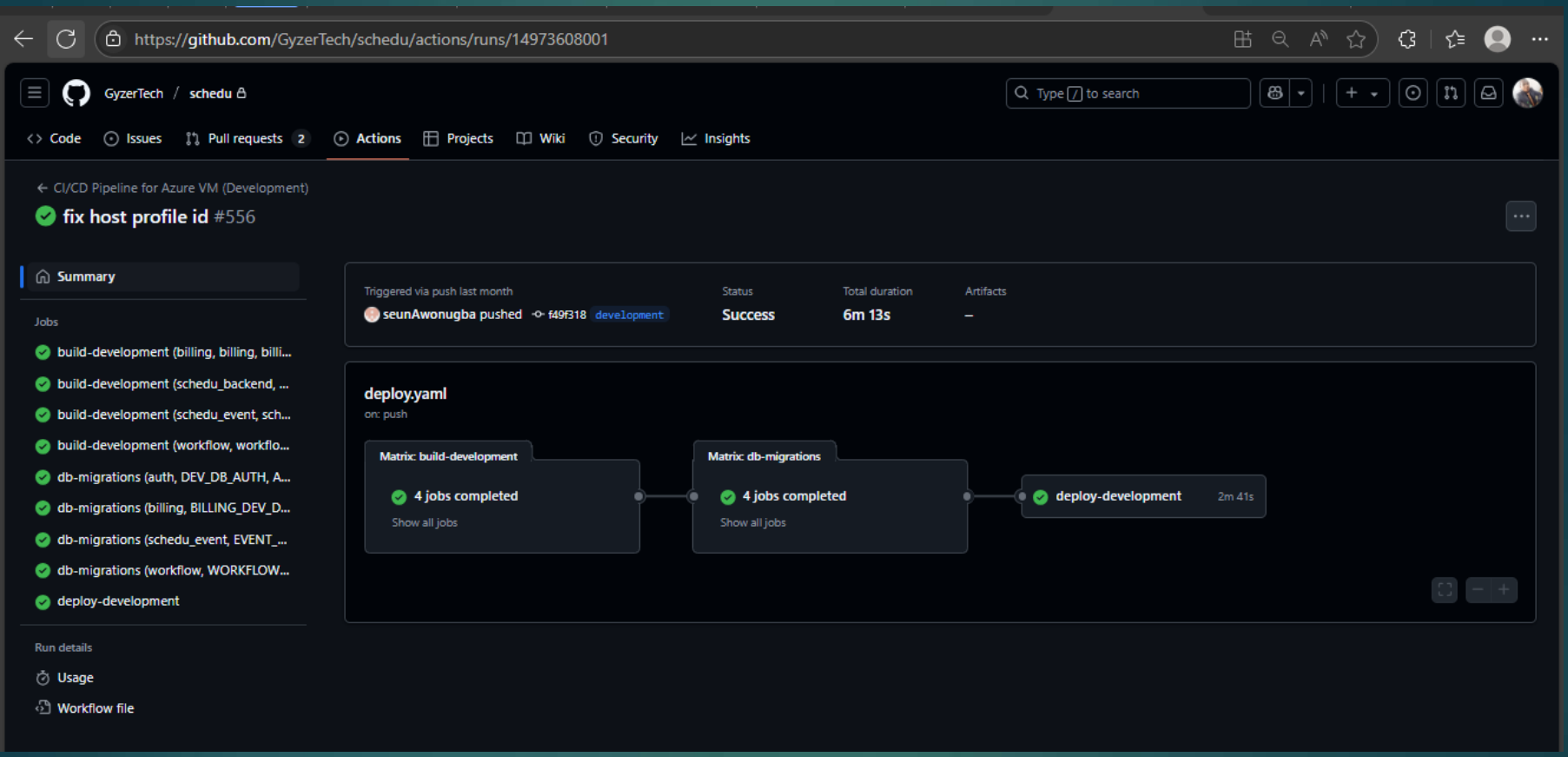
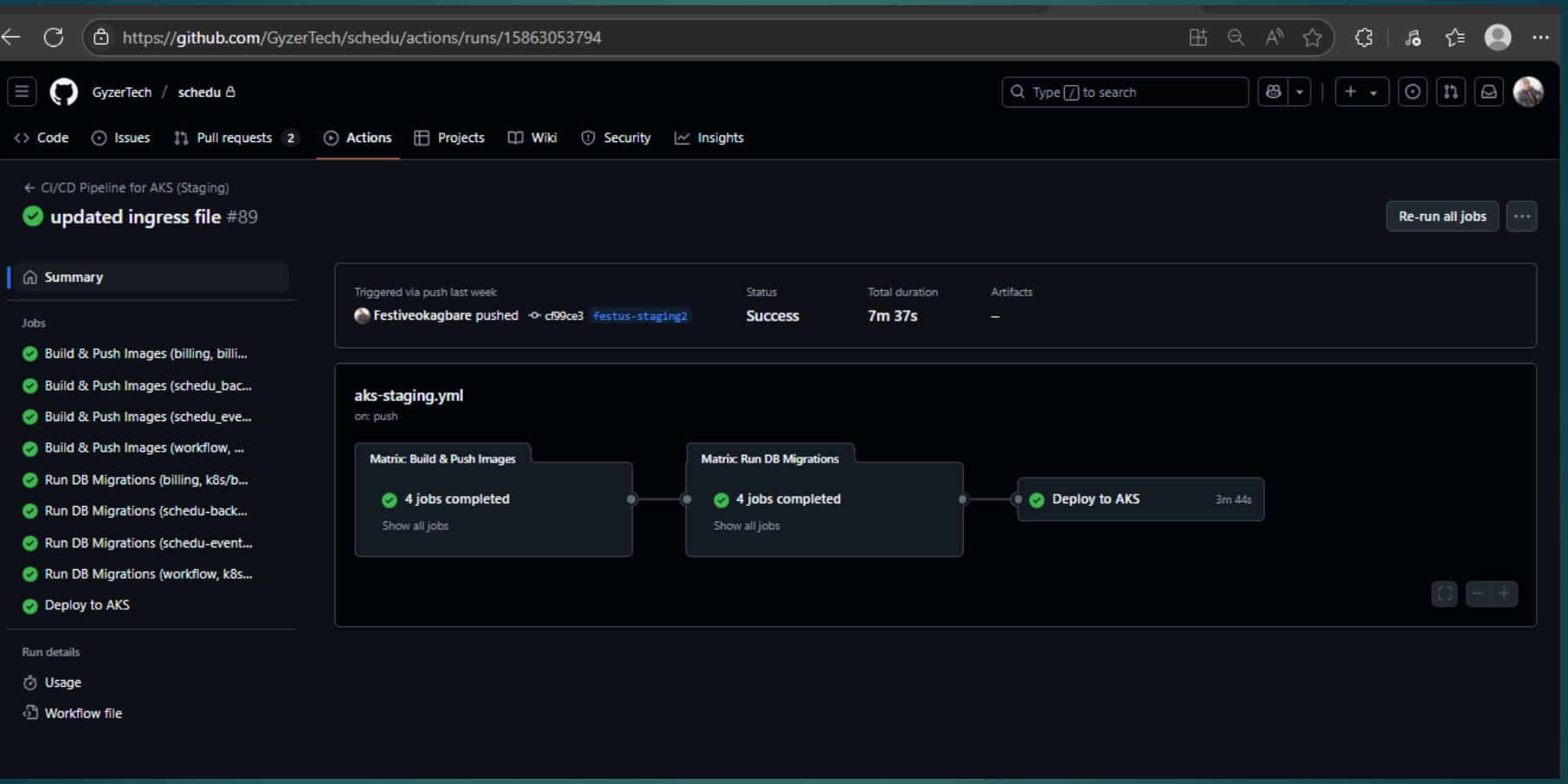
App1 staging branch CICD successful



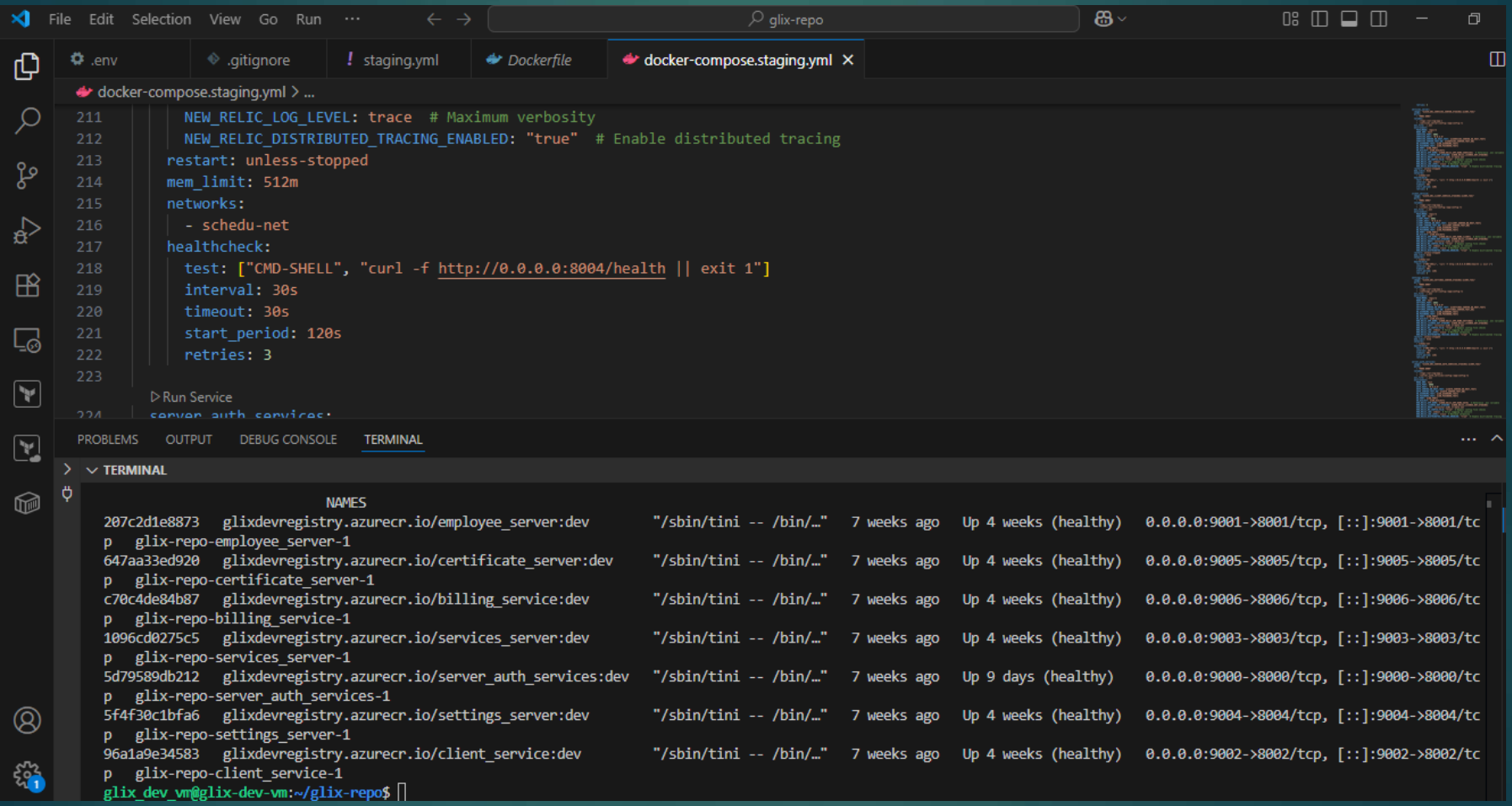
App2 Development branch CICD successful deployment



App2 Staging branch CICD successful deployment to AKS



Containers running for App1 Dev Azure VM



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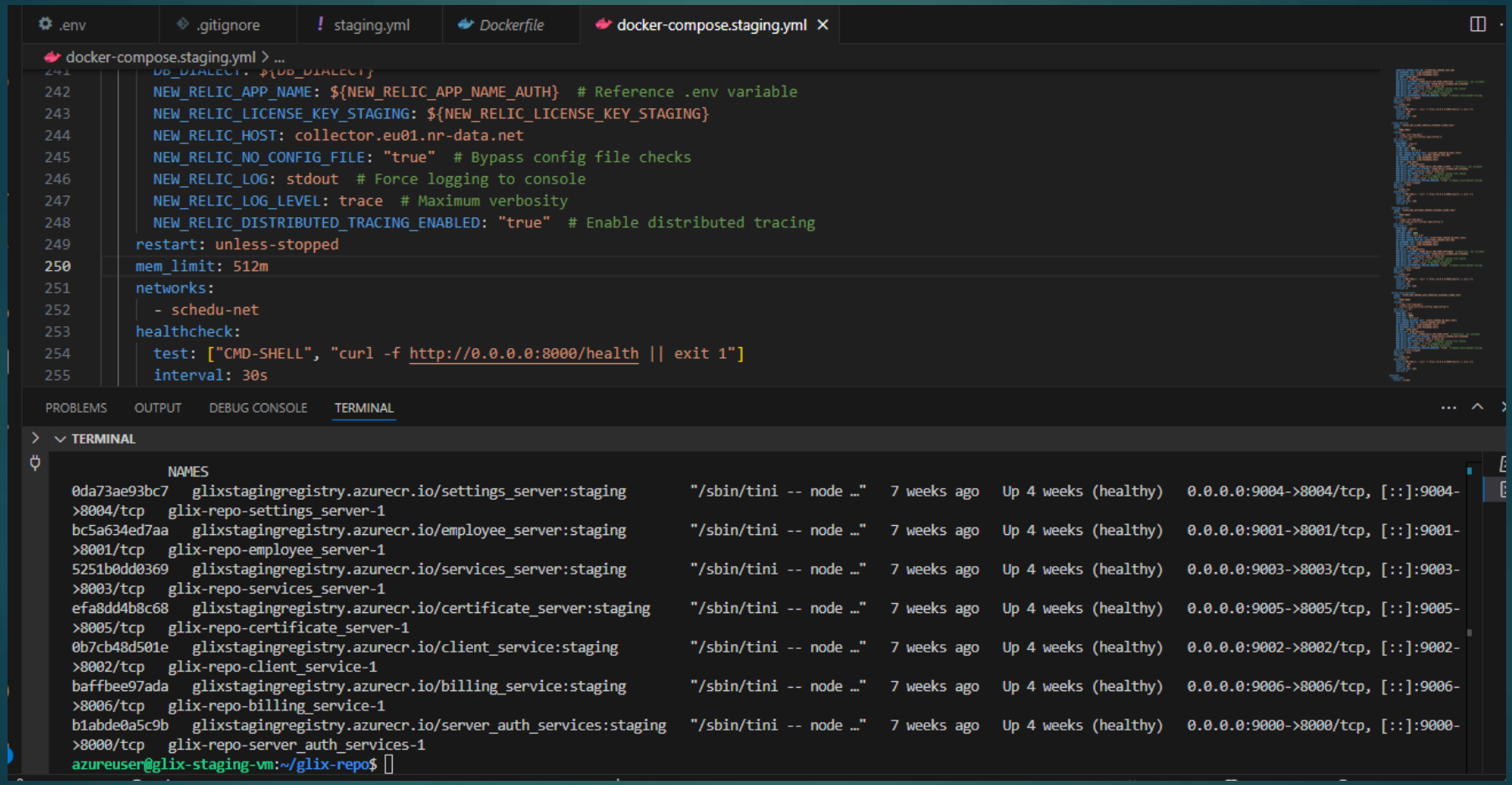
Containers running for App1 Staging Azure VM



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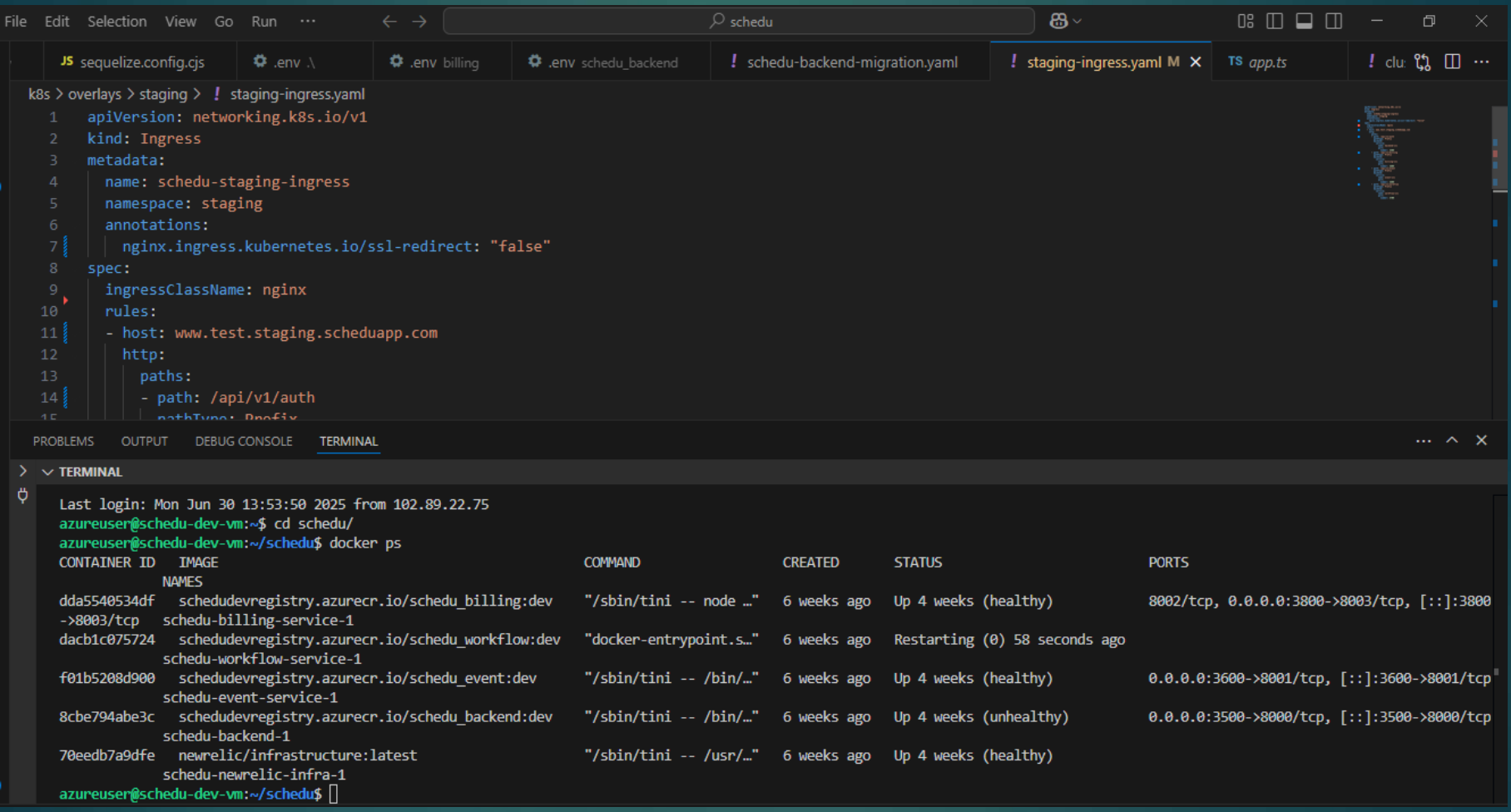
Containers running for App2 Dev Azure VM



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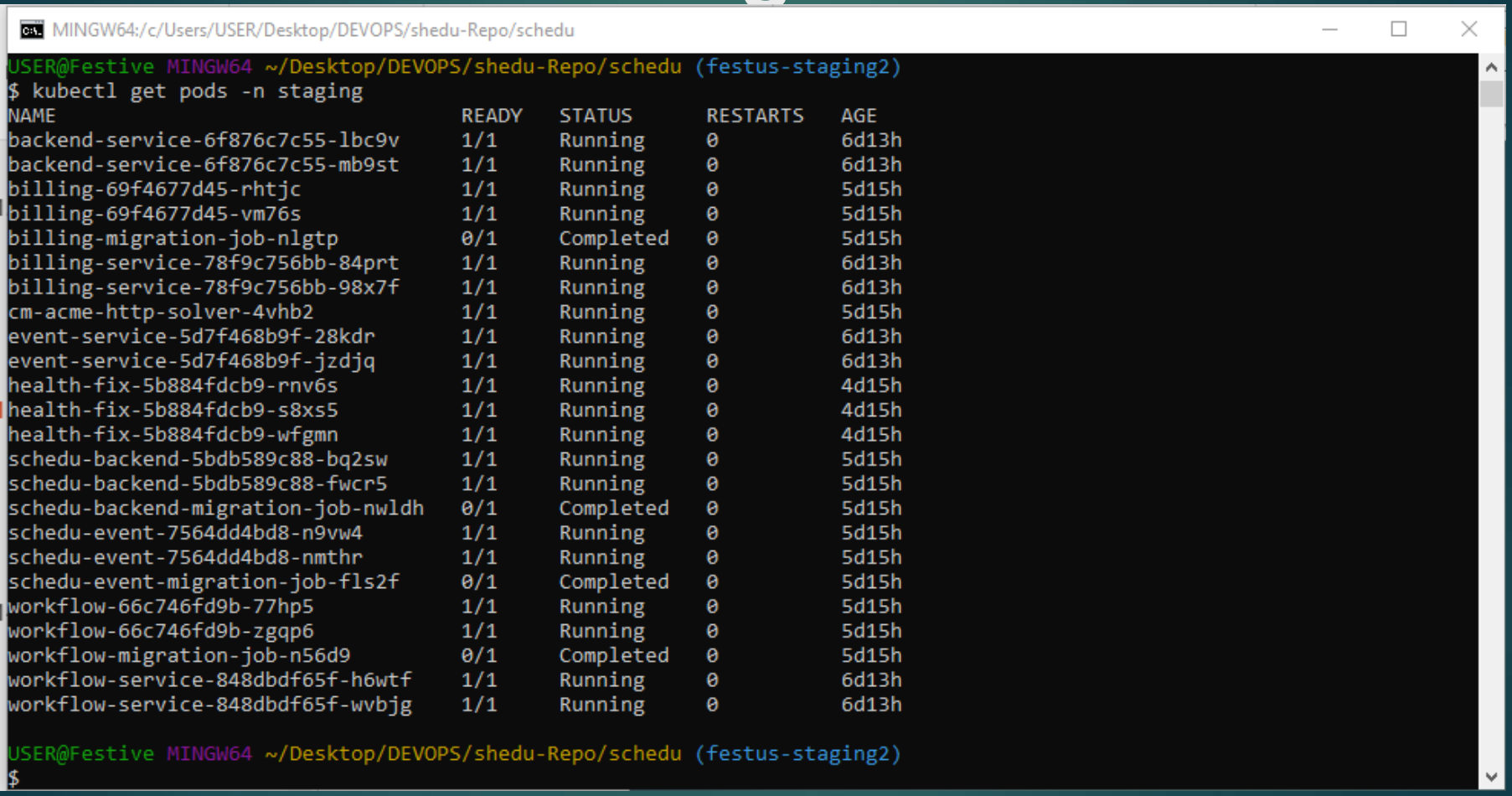
Apps Pods running on Kubernetes with 2 replicas each and db-migrations



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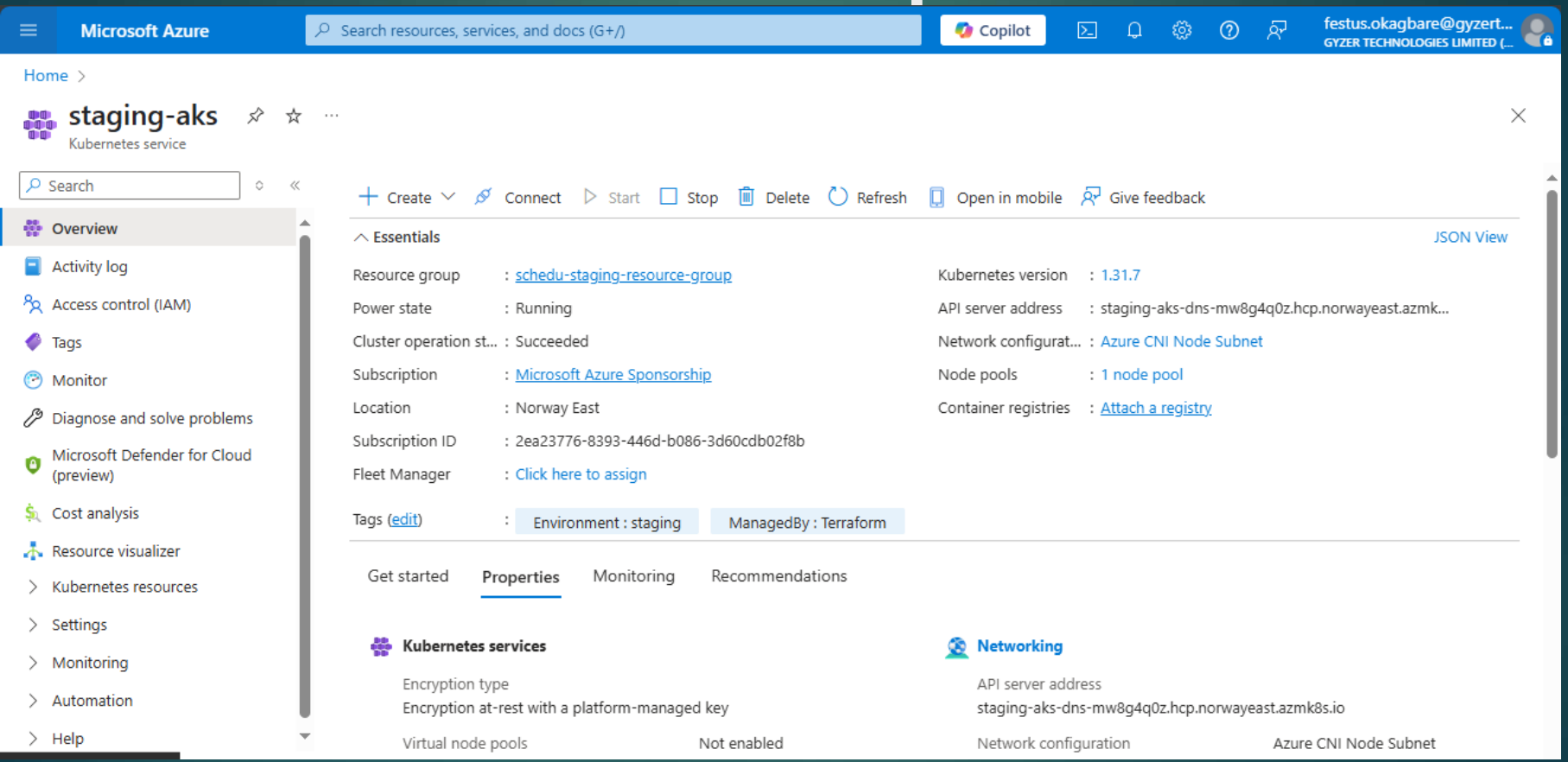
App1 staging-aks cluster infrasture provision with Terraform on Azure portal



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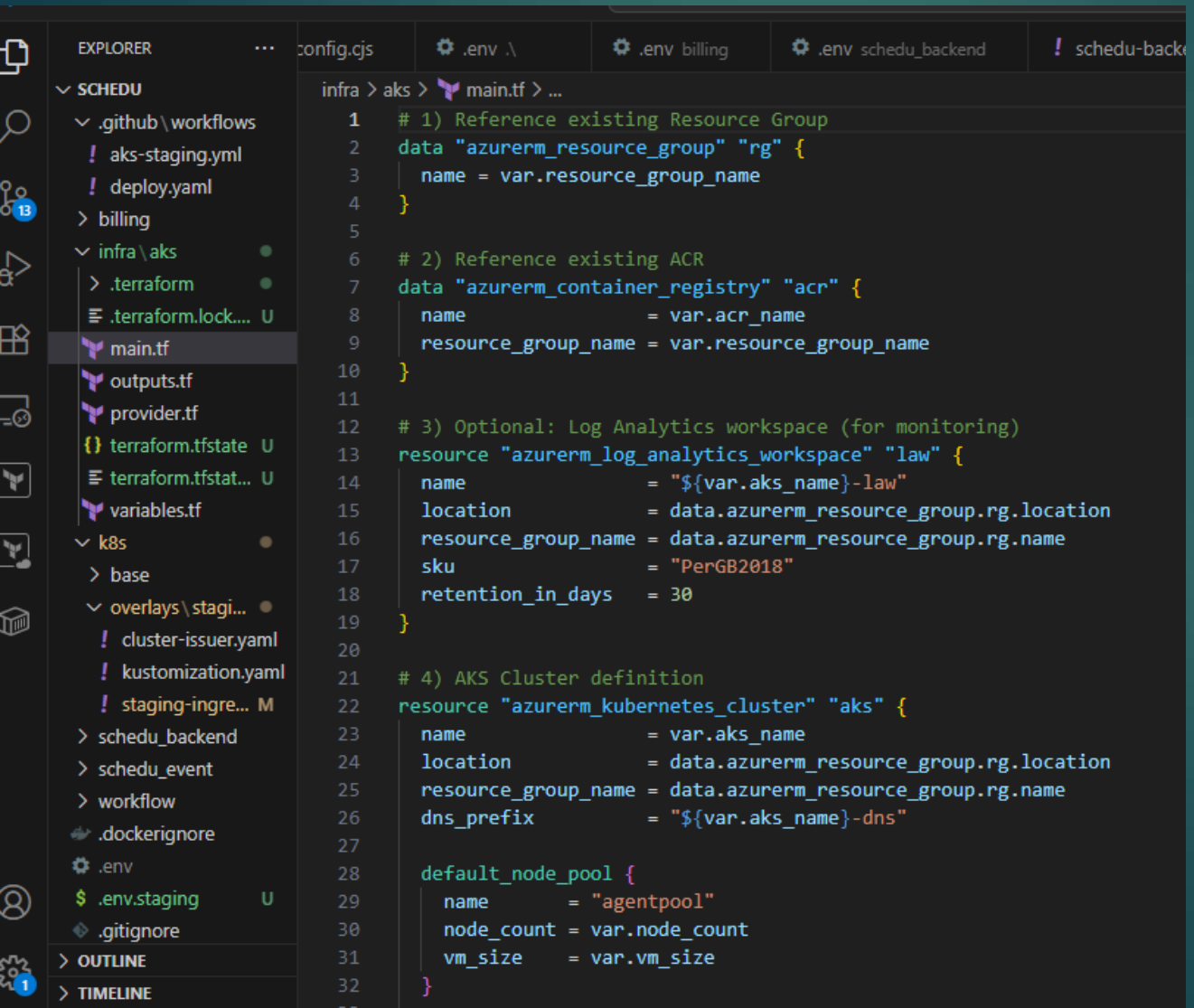
Terraform code used for provisioning aks cluster



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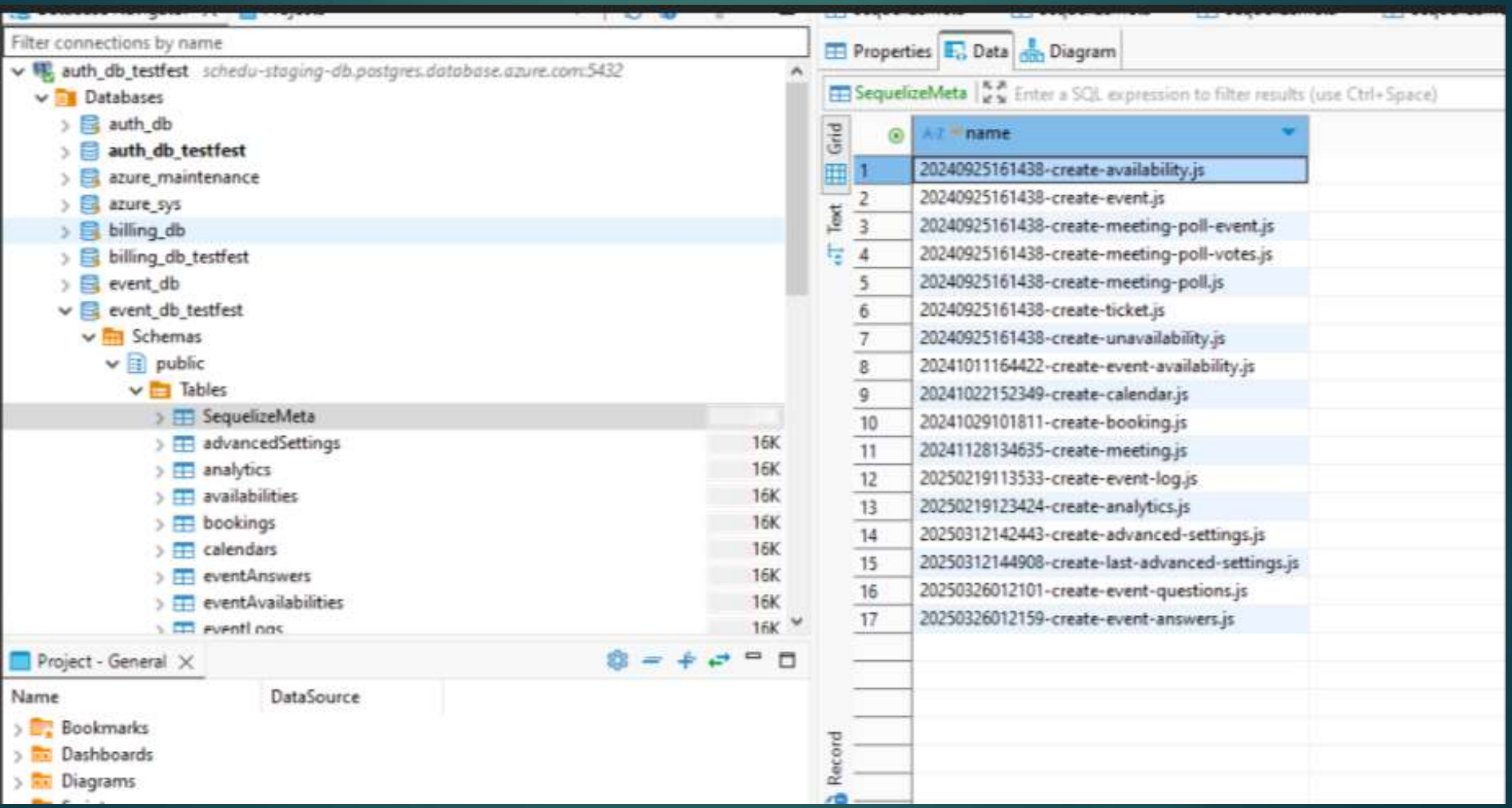
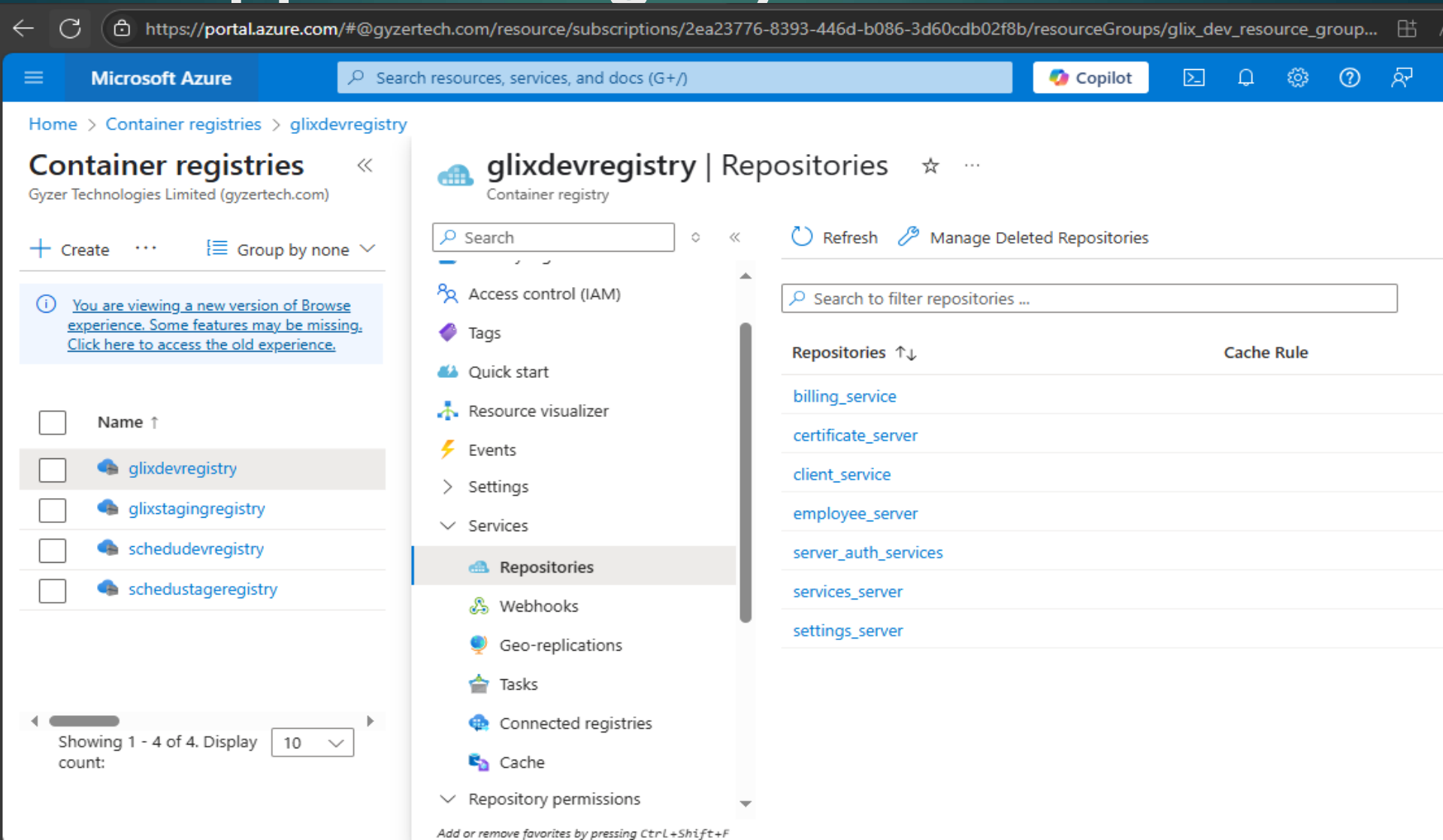
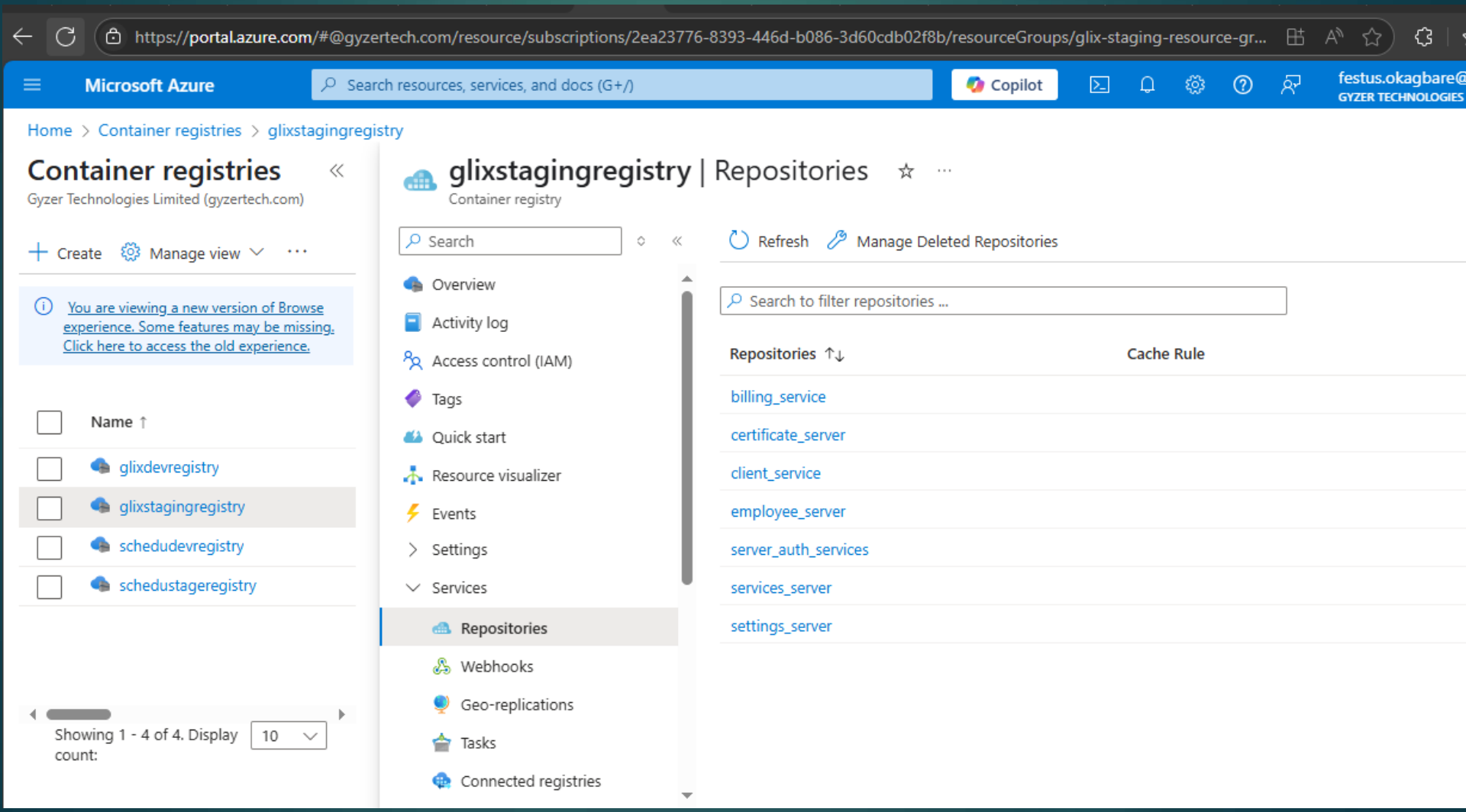
Dbeaver dashboard showing a successful database migration from the cicd deployment pipeline



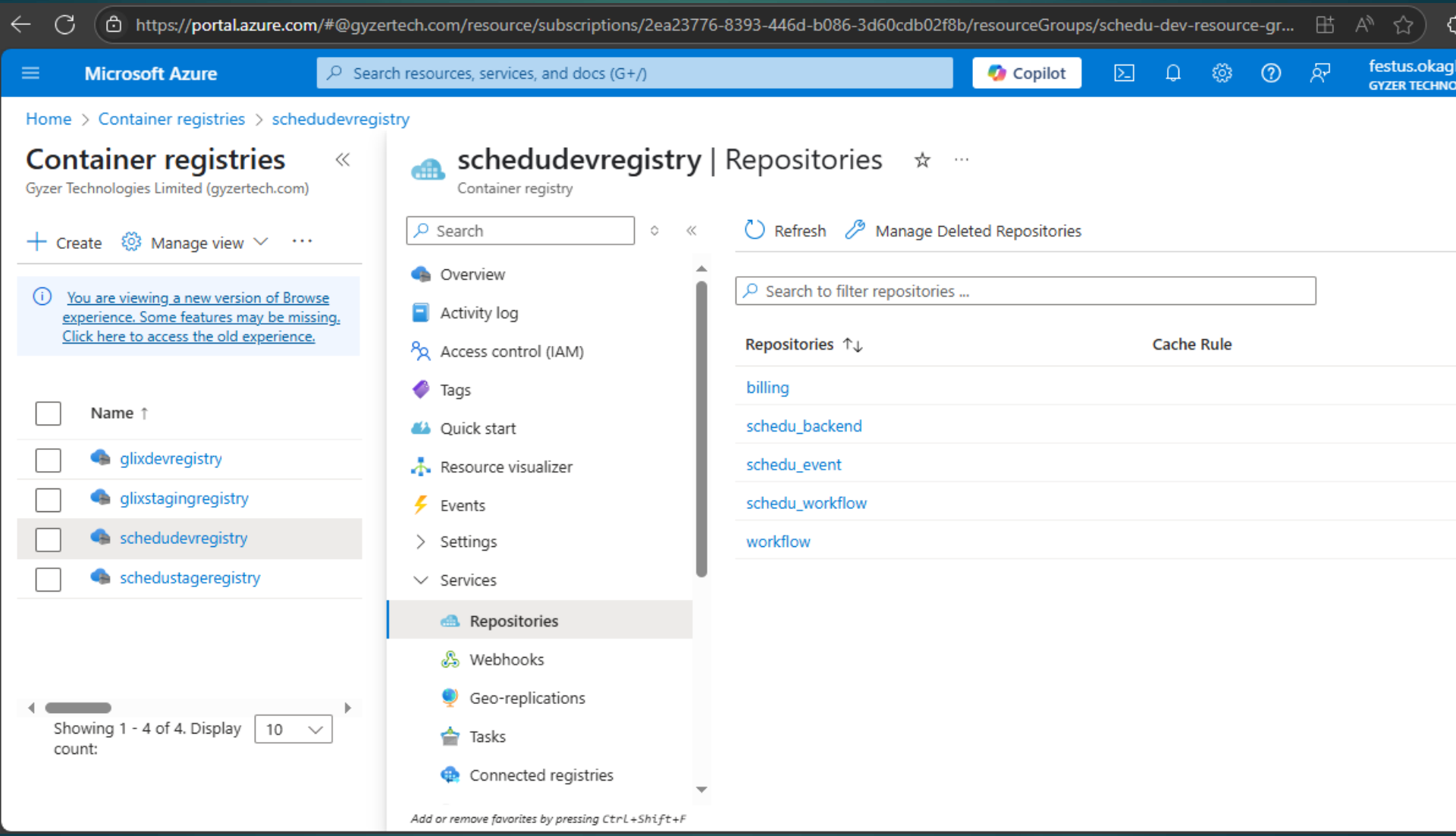
Successful docker Image push to app1 dev registry



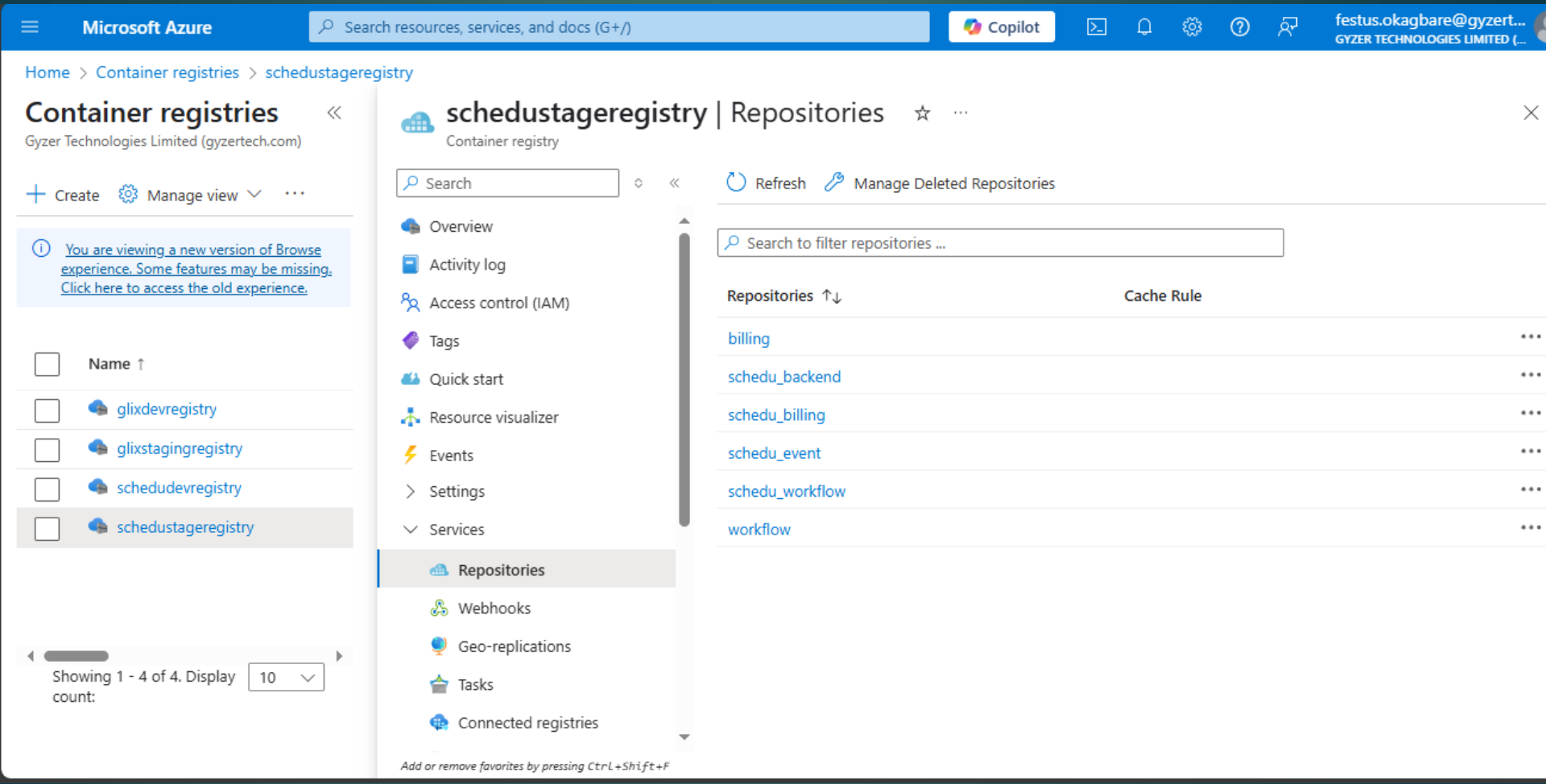
Successful docker Image push to app1 staging registry



Successful docker Image push to app2 dev registry



Successful docker Image push to app2 staging registry



Tools I Worked With

- Docker
- GitHub Repos
- GitHub Actions
- Azure VM
- Kubernetes
- New Relic

Self-Assessment

- Delivered key DevOps results
- Successfully **built and deployed multiple CI/CD pipelines** and containerized applications
- Deployed infrastructure for **Kubernetes orchestration and monitoring**
- Estimated contribution and performance: 80%+

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Conclusion & Appreciation

THANK YOU!

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