**Shell- Final Case Study Assessment**

**Documentation**

**Scenario**: Streamline Solutions Inc. - Optimizing Software Deployment

**Problem Statement**: Implementing a Seamless CI/CD Workflow for a Spring Boot Application using Azure Boards, Azure, Git, Maven, Docker, GitHub, GitHub Actions

**Submitted By- Tanya Yadav**

**Employee Code- 654952**

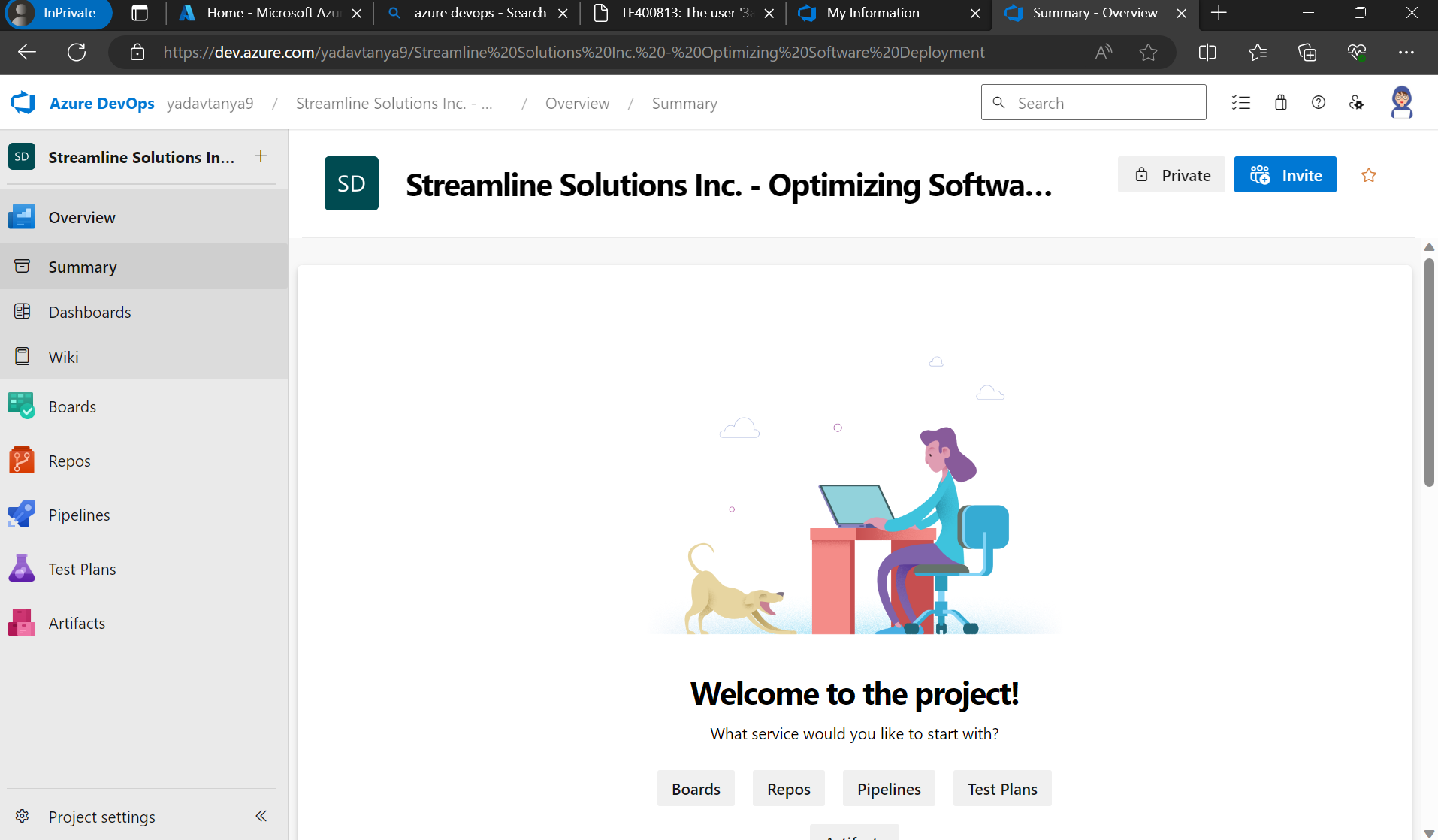
**Reg ID**- SH7B23242

**Shell – Final Case Study Assessment**

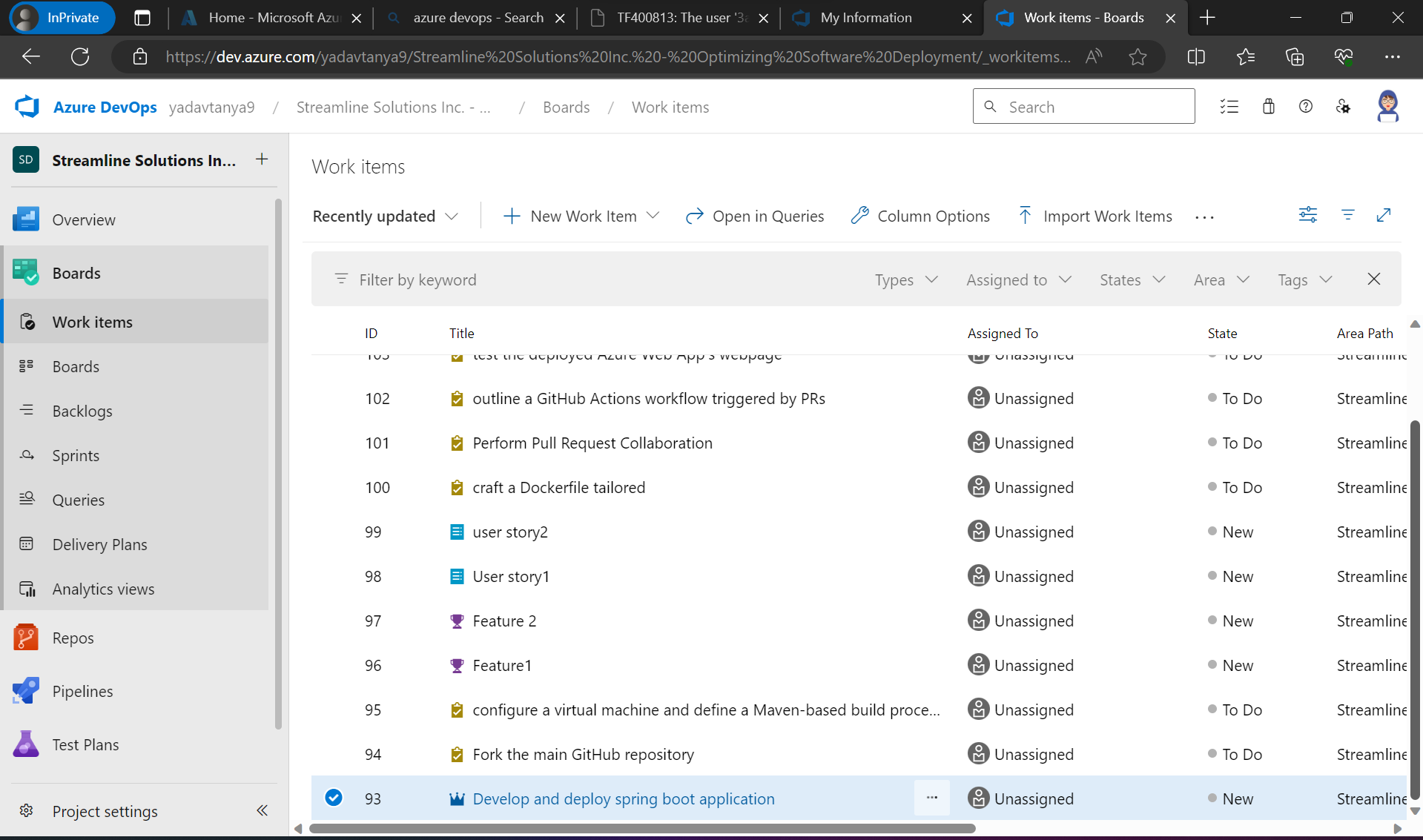
**Task1- Project Management Setup:**

Establish Azure Boards to manage the Agile/Scrum project's progress, including creating a Project Board, Backlogs Board, Sprints/Iterations and Tasks Board.

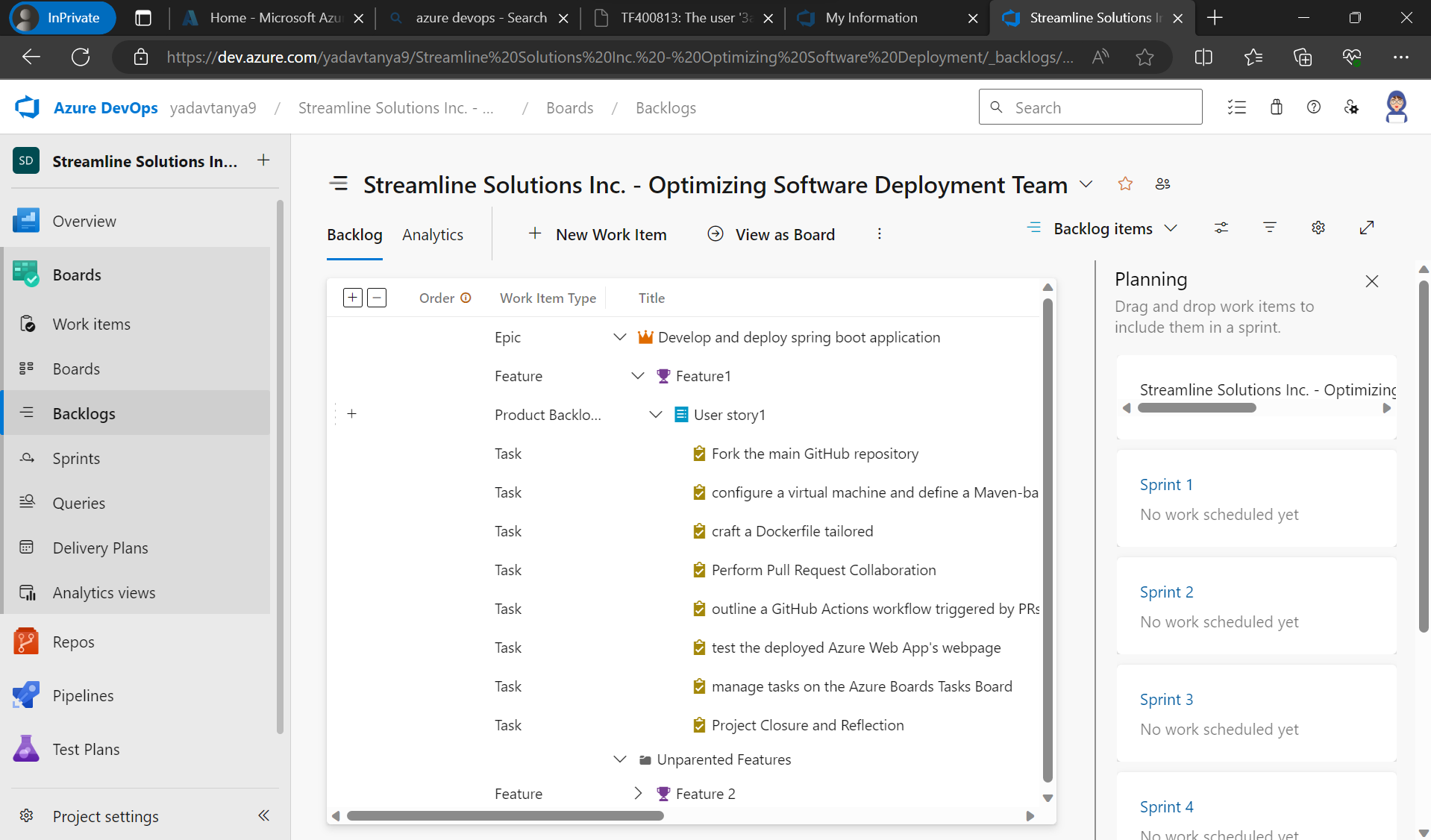
Created project-

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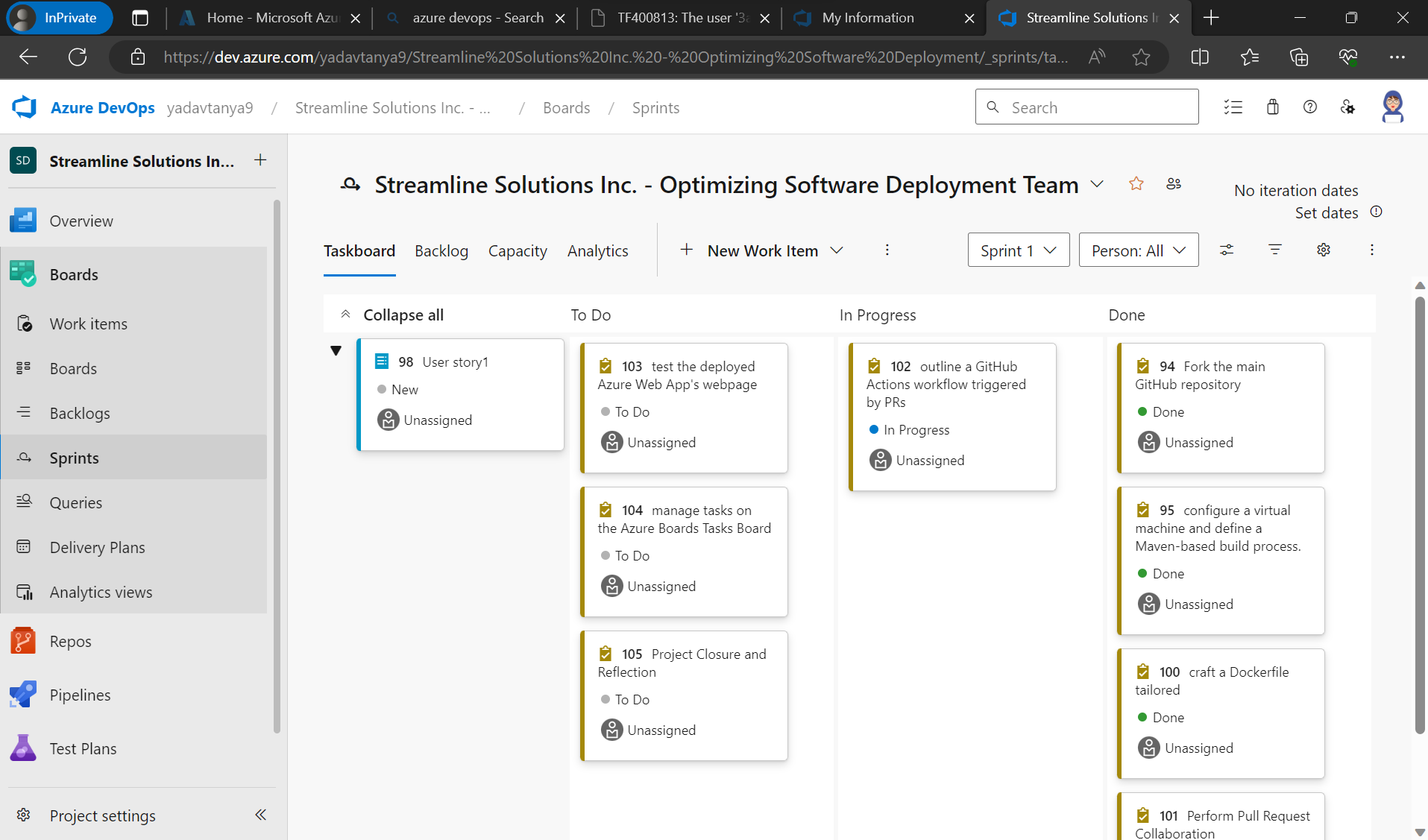
Created tasks, user stories, features, epic.



Created hierarchy-

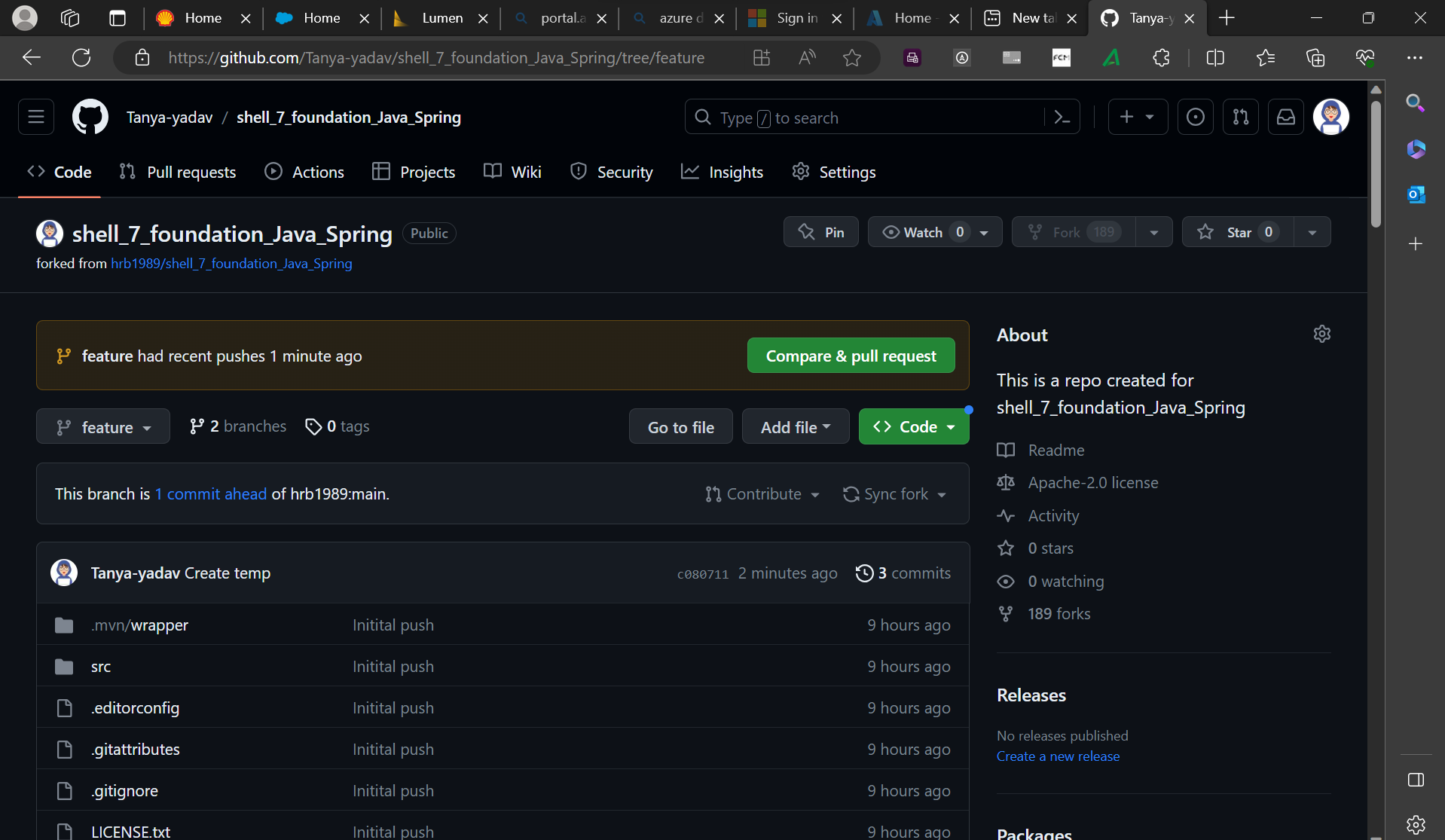
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**Sprints view-**

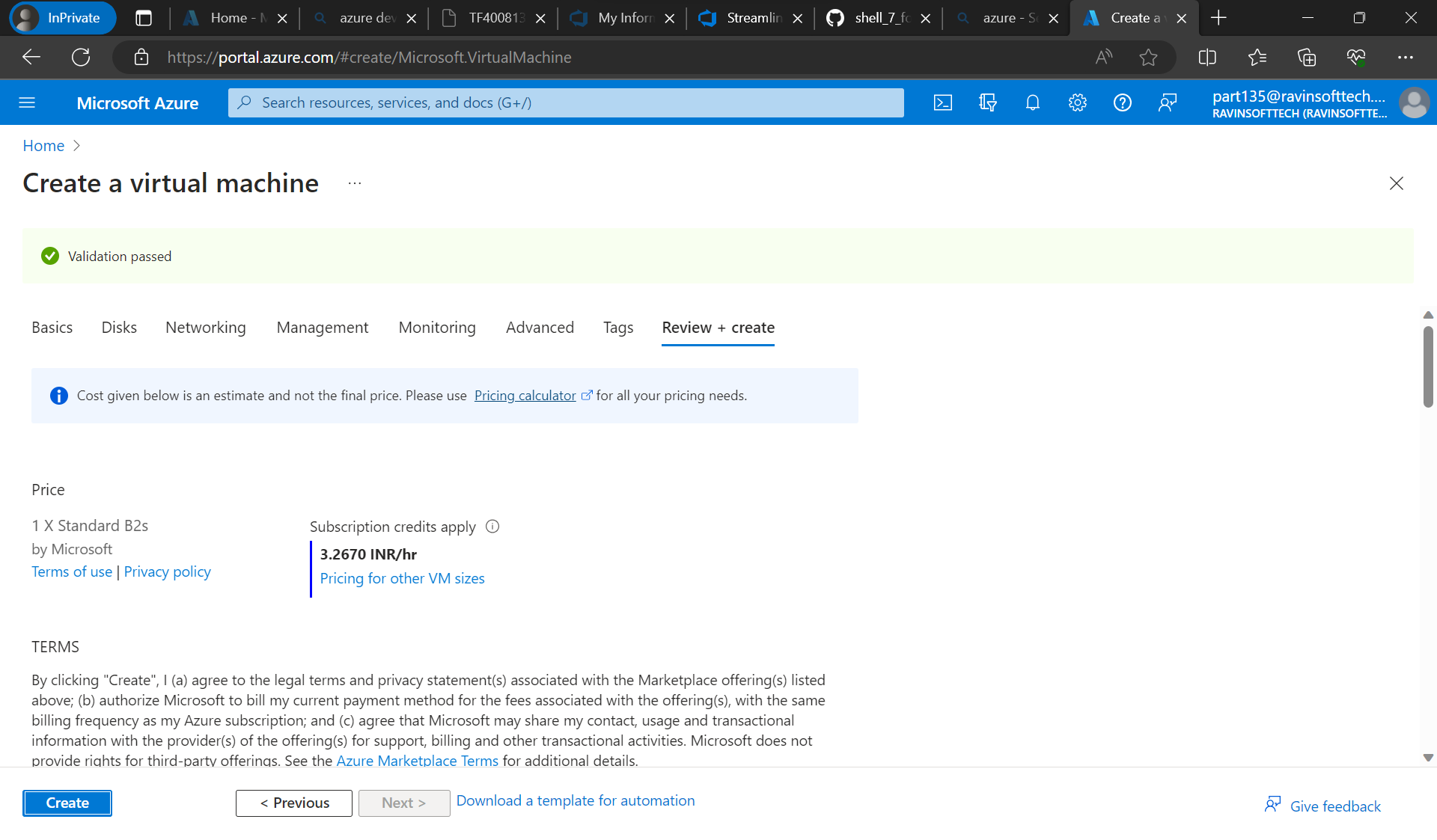
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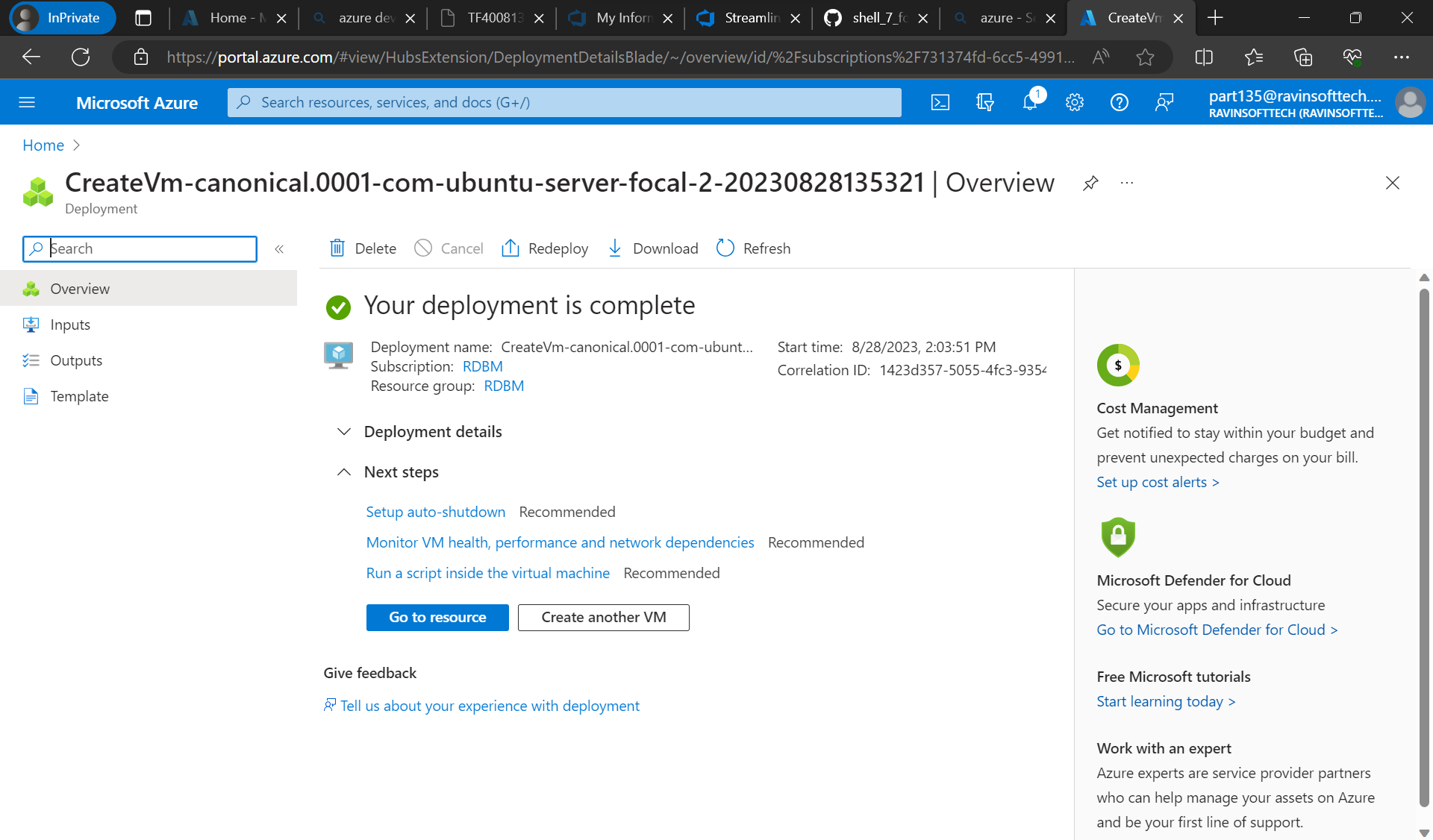
**Task2- GitHub Repository and Feature Branching:**

Developers will fork the main GitHub repository (https://github.com/hrb1989/shell\_7\_foundation\_Java\_Spring) into their local environments. They will create feature branches to work on specific enhancements or tasks related to the Java Spring Boot application.

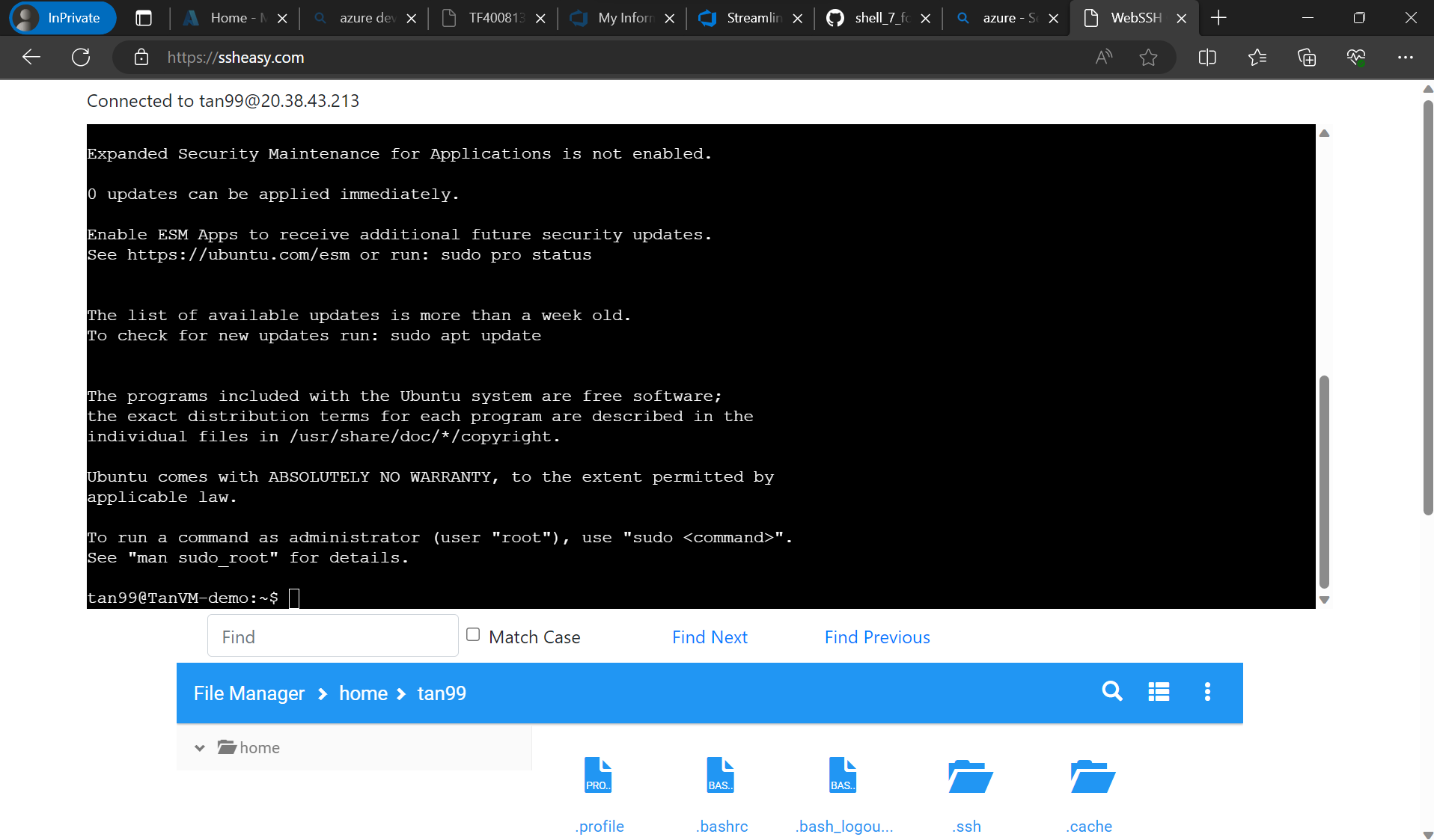


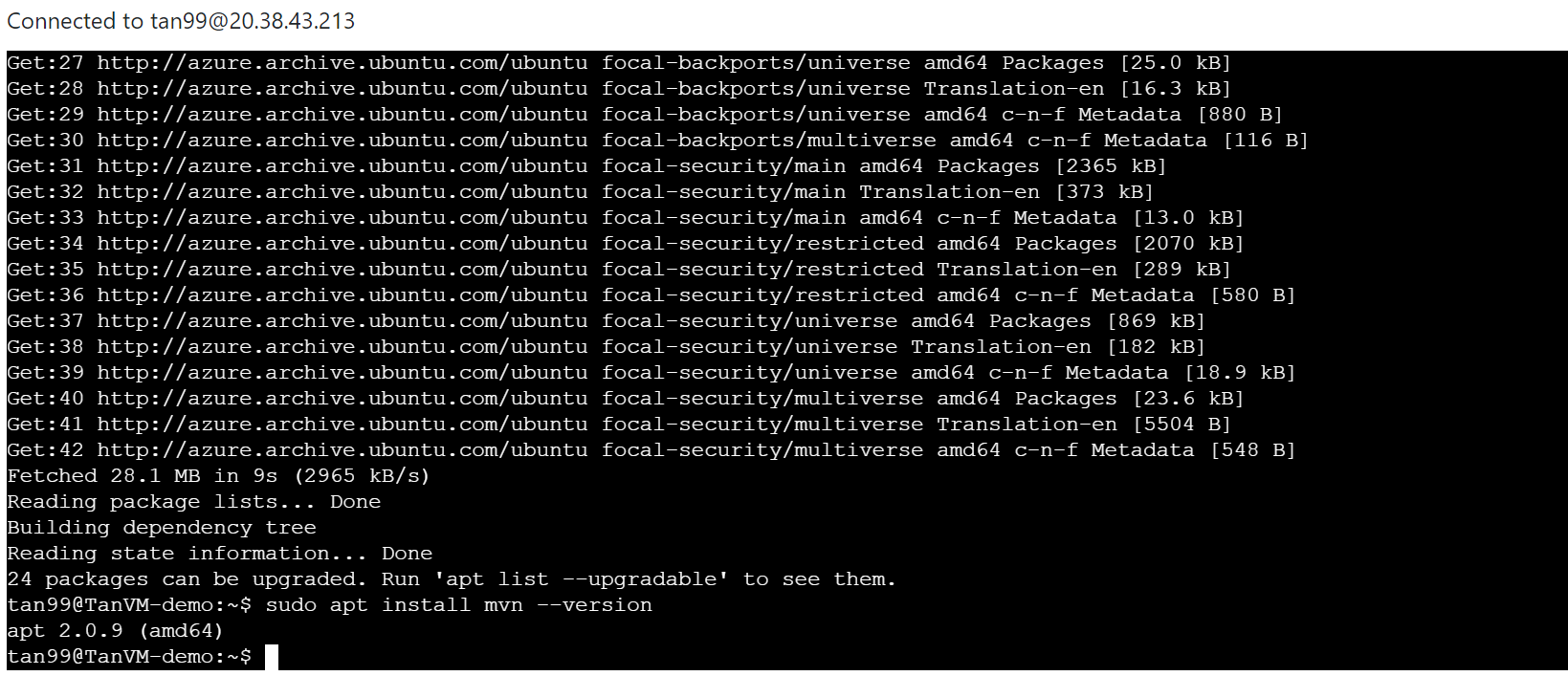
**TASK3- Azure VM Configuration:**

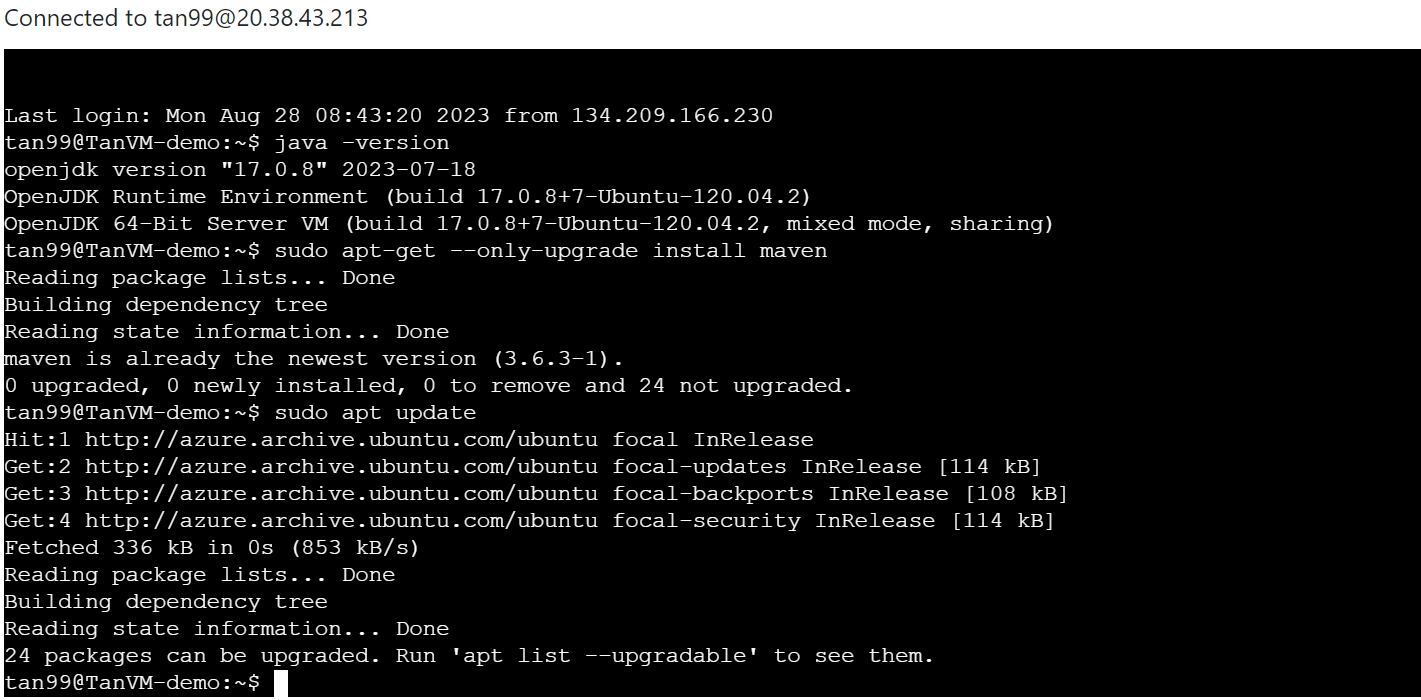


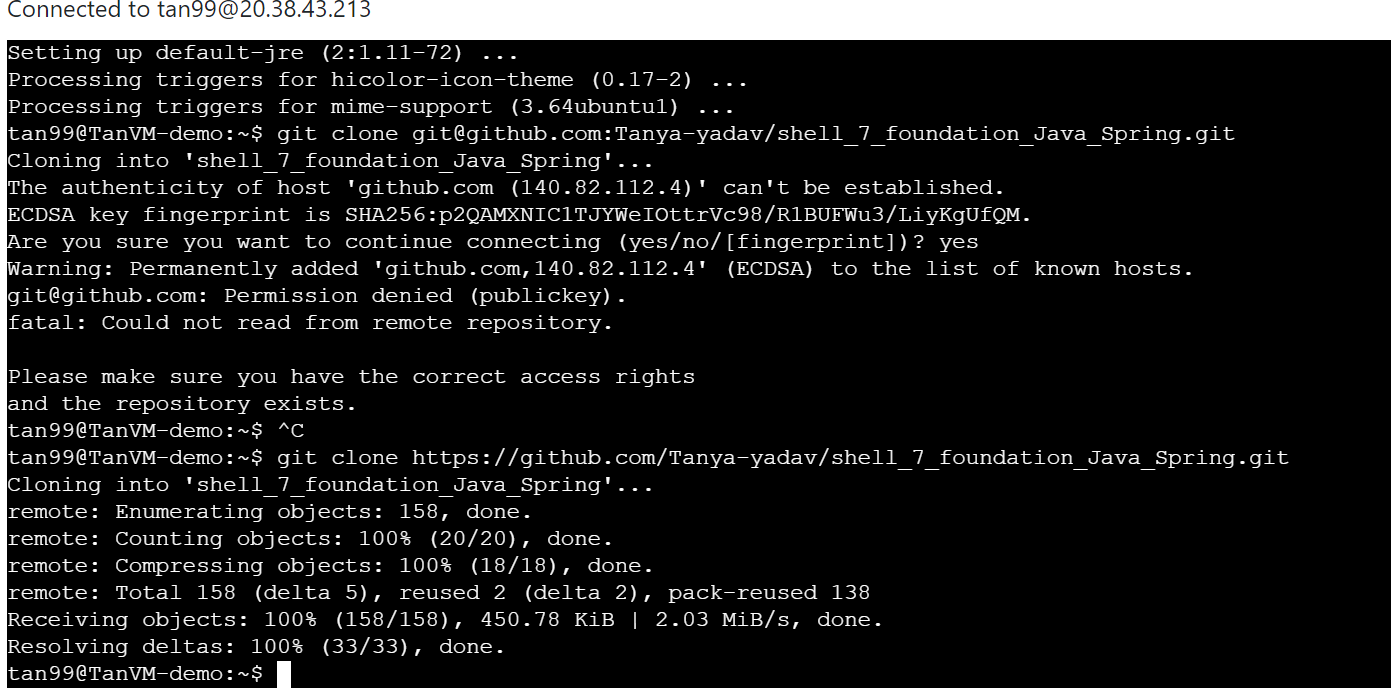


**TASK4&5 - Maven-Based Build Process and Prometheus Monitoring Integration:**



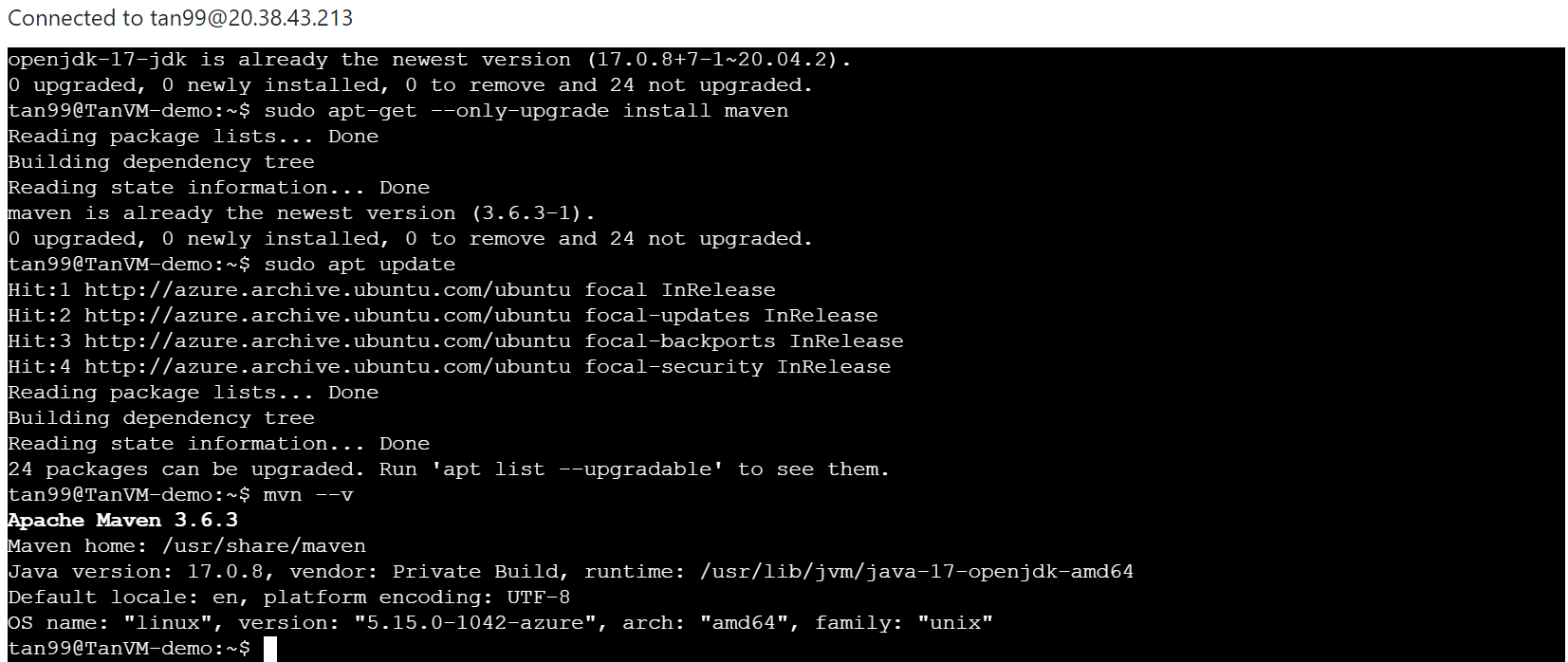


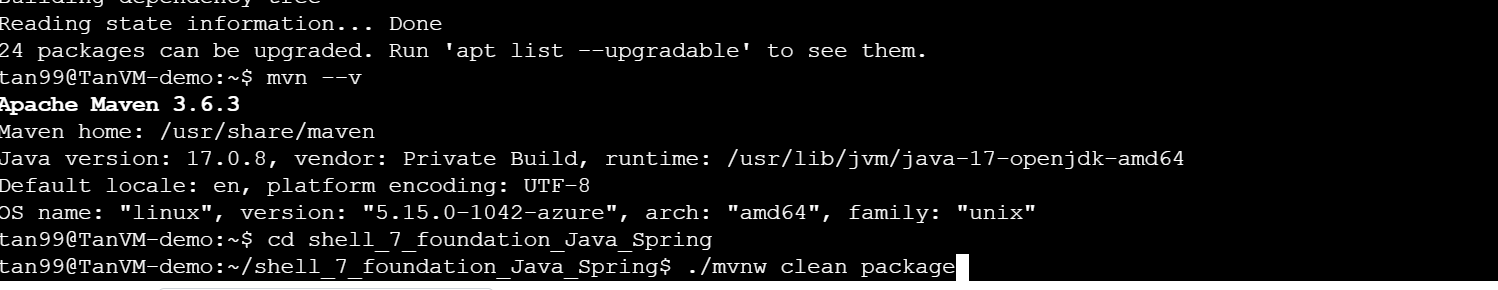


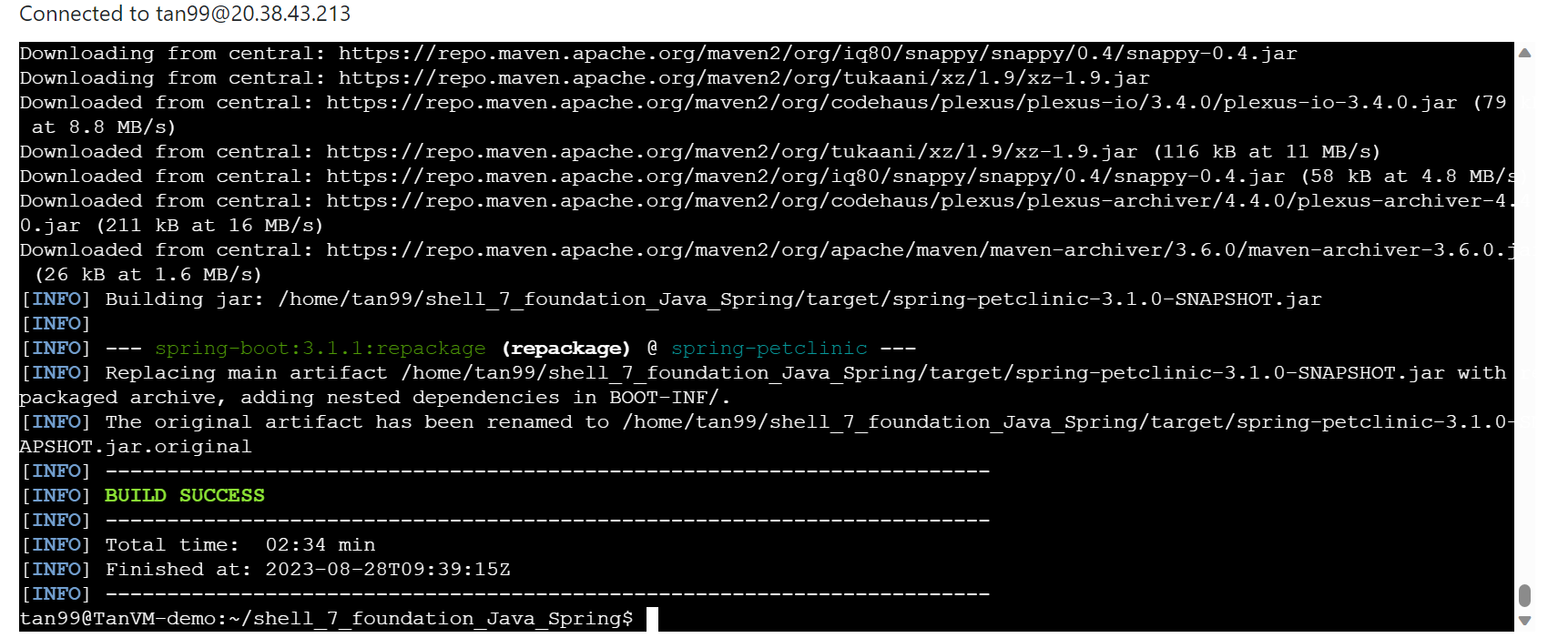


**Prometheus Monitoring Integration:**



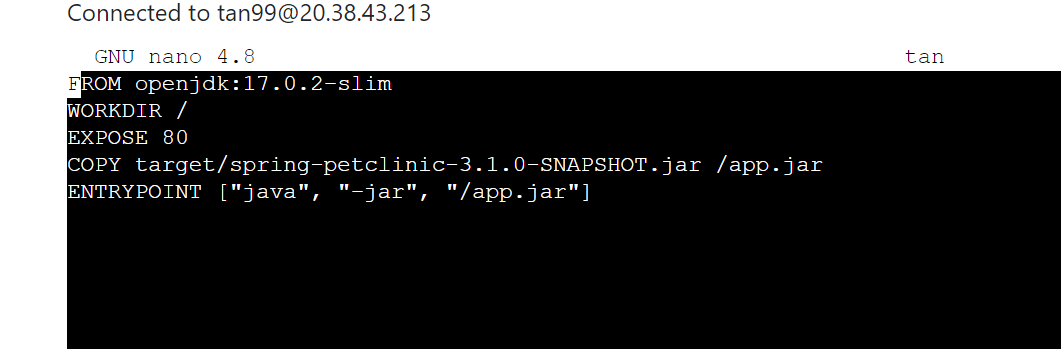




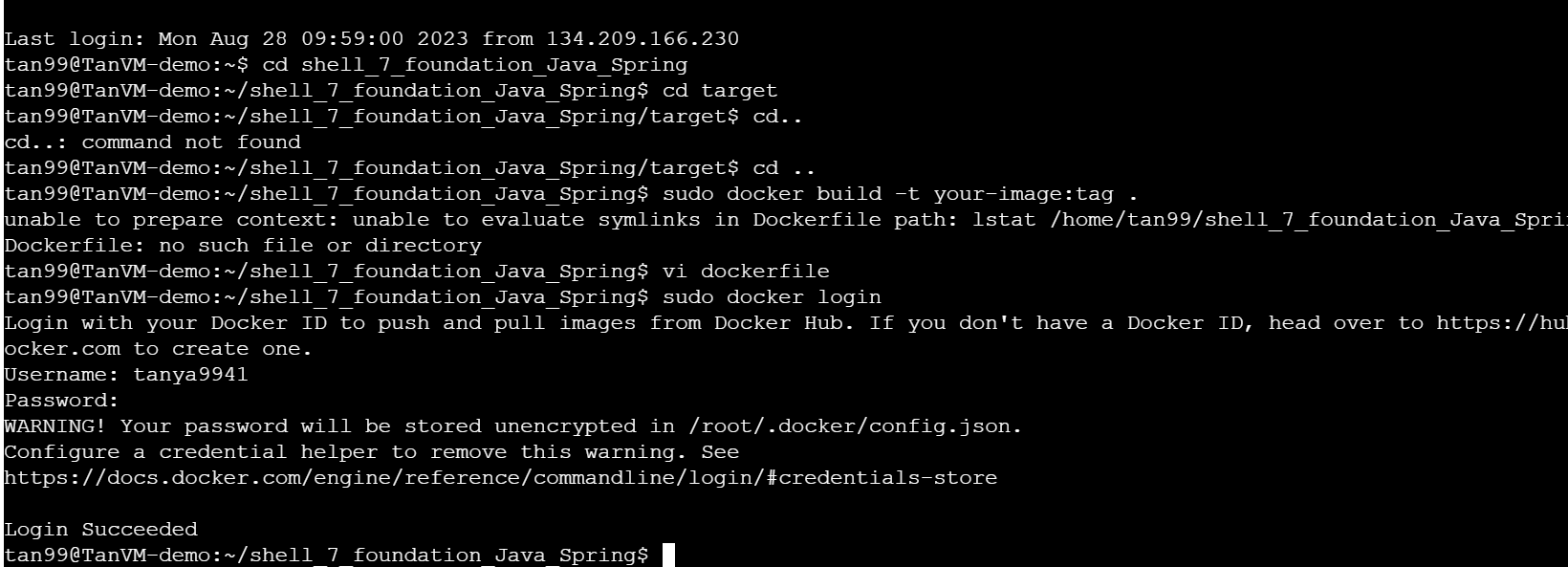


**TASK6- Docker Containerization:**

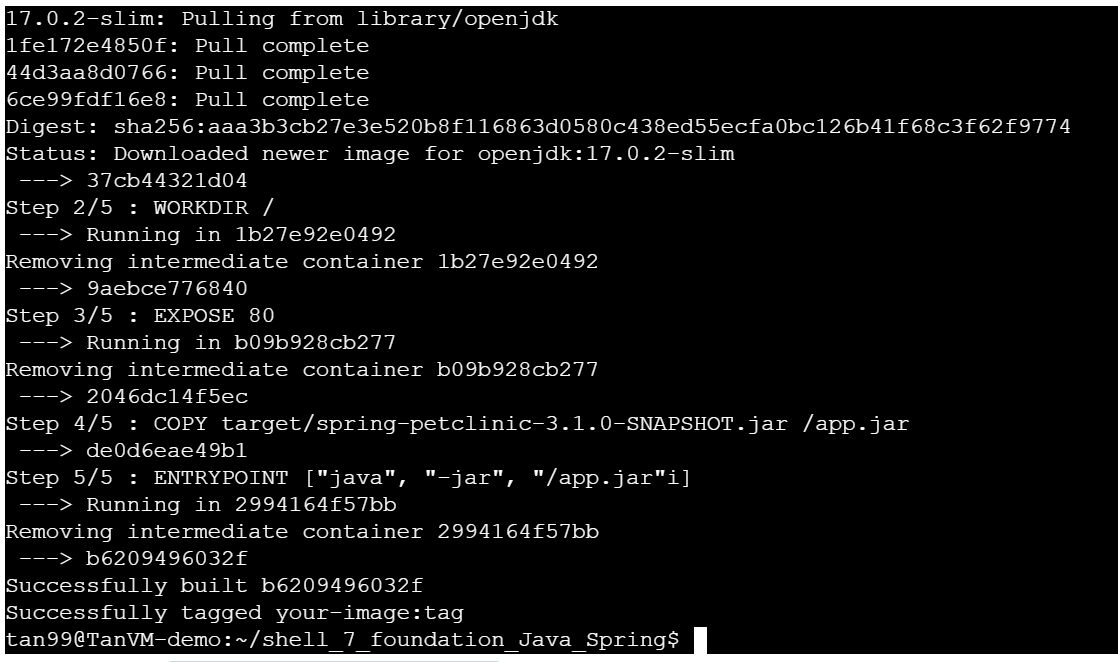
Next create docker file using: vi dockerfile

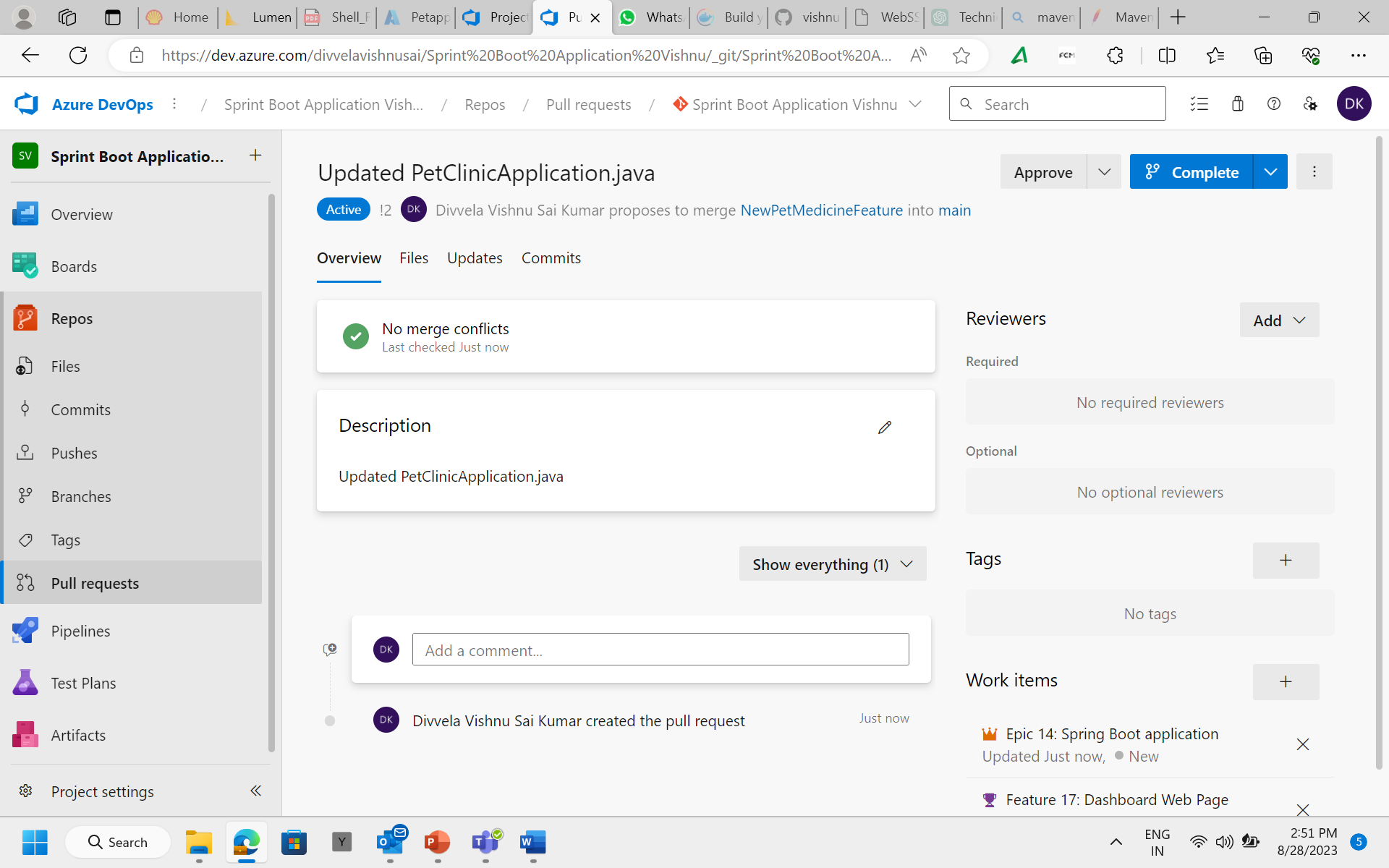


**TASK7- Azure Web App Configuration:**

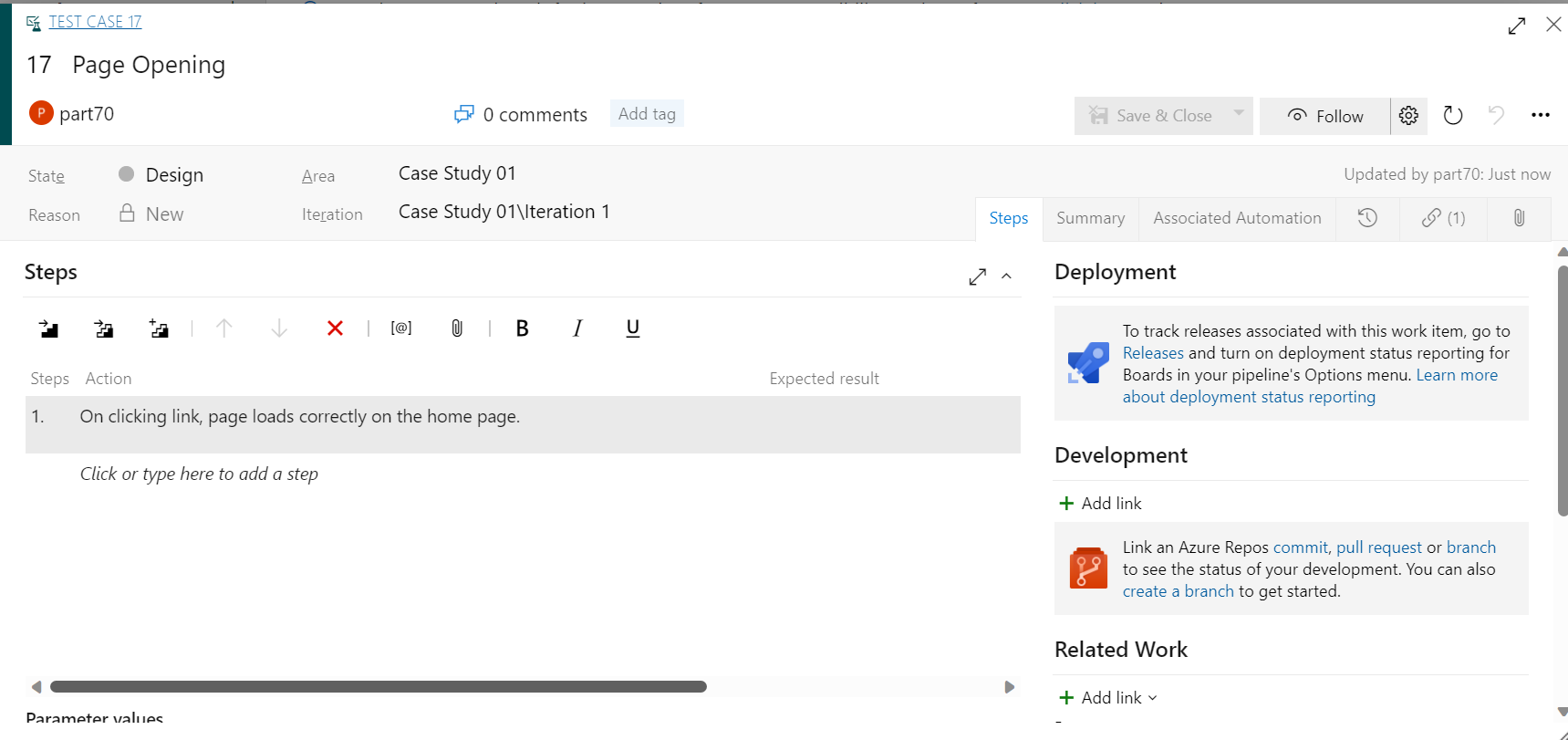


**TASK8- Pull Request Collaboration:**

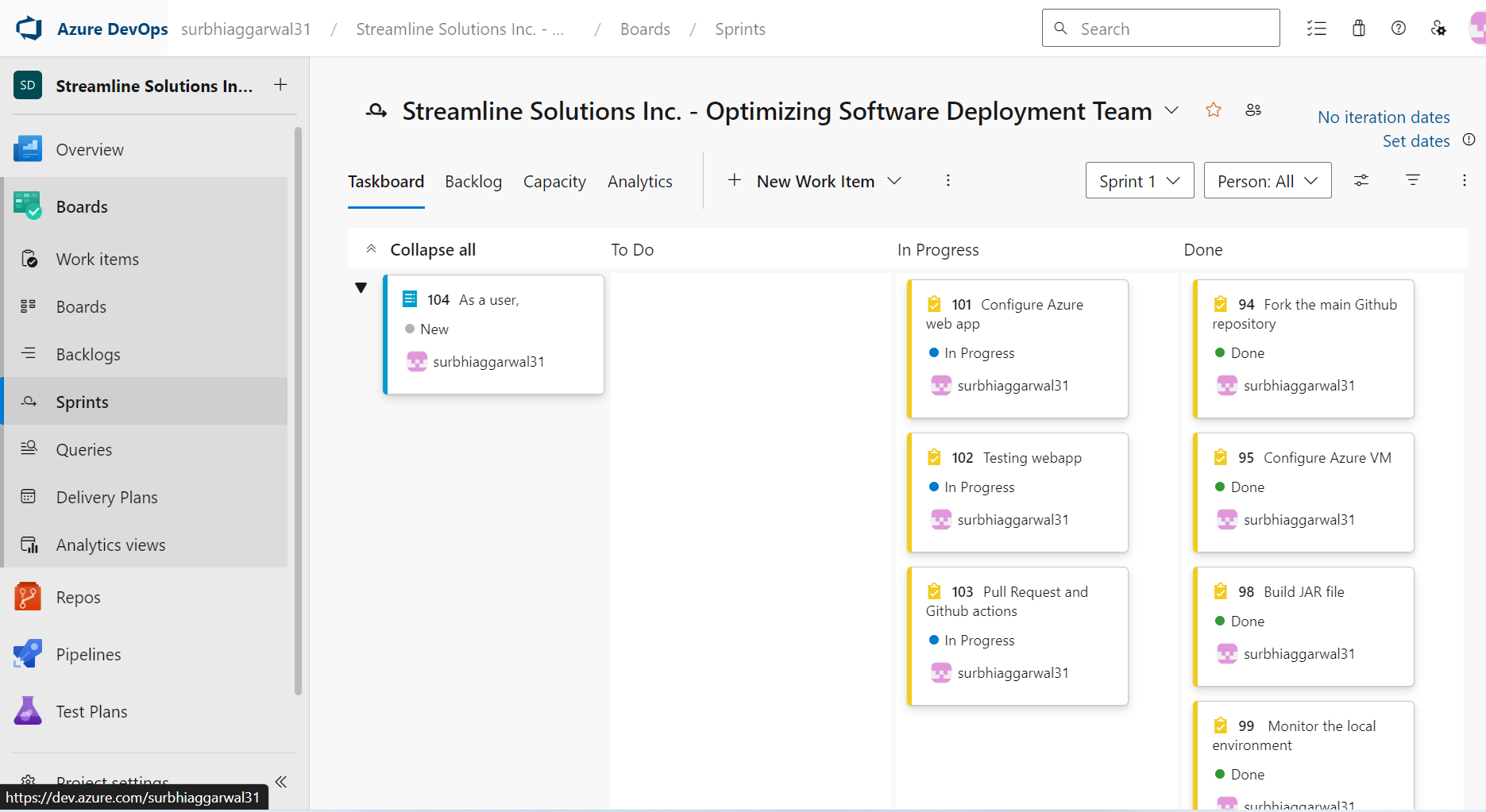


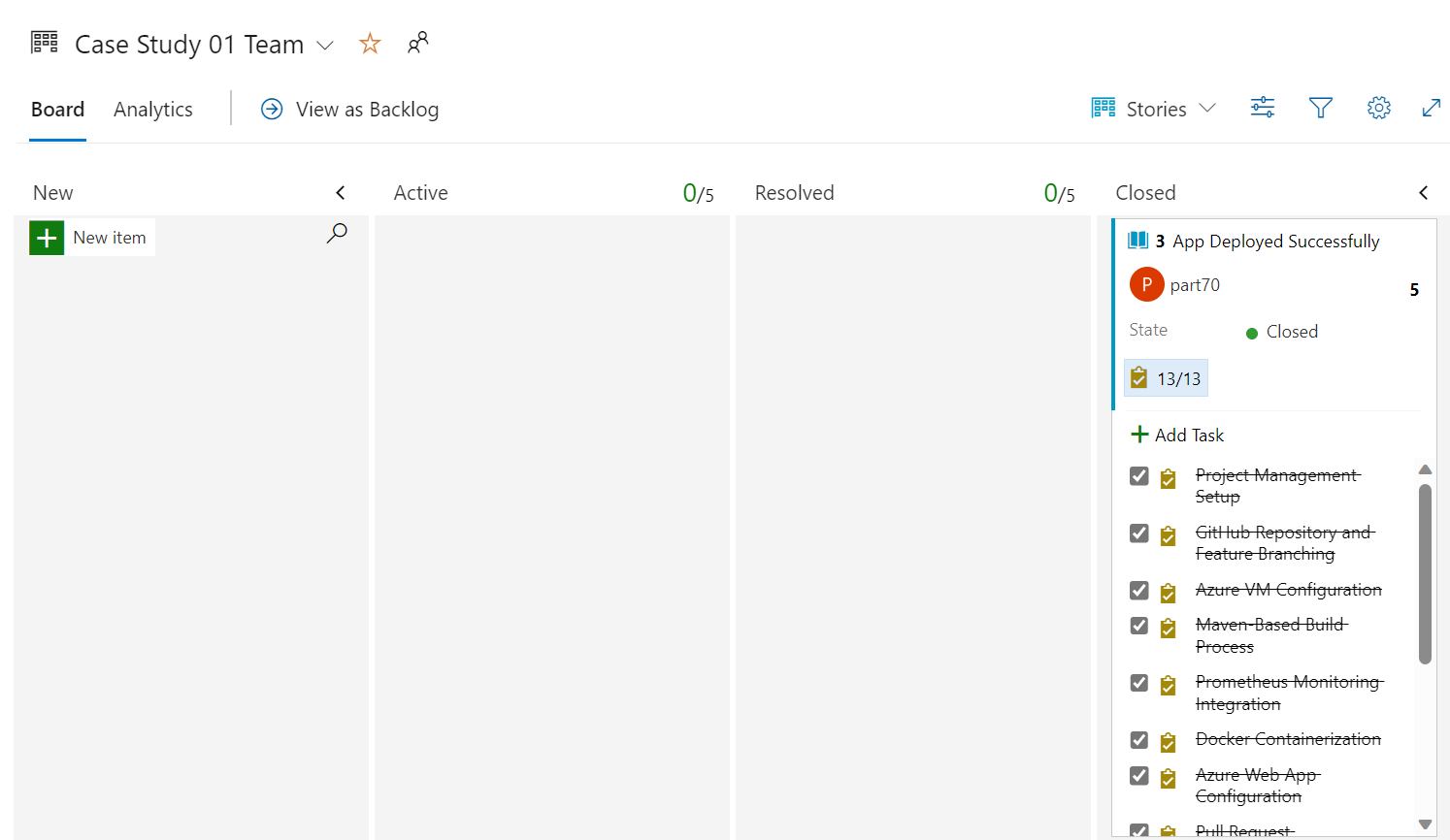


**TASK9- GitHub Actions Workflow Implementation:**



**TASK10 - Azure Boards Tasks and Sprint Closure:**





**TASK11- Outcome**

A screenshot of a computer

Description automatically generated

I've learned how to work with a sprint, and having implemented the app in tight timeframes, it has taught me time management skills as well as my ability to manage pressure. I learnt about deploying an app on azure, created a dockerfile and docker image, devops, agile, git, github workflow, etc. Streamline Solutions Inc. aims at delivering rapid and reliable software deployment, since the CICD Workflow has been systematically implemented.