#### Task

Aspect	Netflix	Google	Amazon
Key Focus	Rapid	Automation	Scalability and
	deployment	and system	operational
	and resilience	reliability	excellence
Tools	Spinnaker,	SRE,	CloudFormation,
	Chaos Monkey	Stackdriver	CodePipeline
Strategies	Microservices,	Error Budgets,	Infrastructure-
	Chaos	SLOs	as-Code, CI/CD
	Engineering		
System	Fault-tolerant,	Automated	Proactive
Reliability	resilient	monitoring,	monitoring,
	systems	error budgets	scalable infra

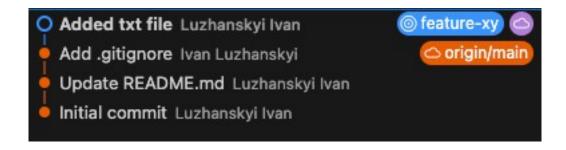
# **Relevance for Smaller Organizations**

Smaller organizations can adopt scaled-down versions of these DevOps practices:

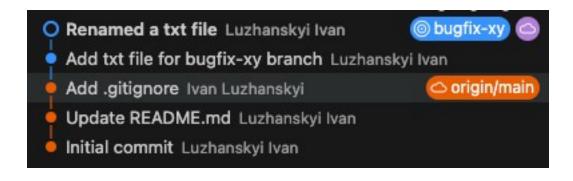
- **Netflix's Microservices:** Smaller teams can start by decoupling applications into manageable components to isolate and fix issues efficiently.
- Google's SRE Principles: Establish basic SLOs and use open-source monitoring tools like Prometheus to track performance.
- Amazon's Automation: Leverage cost-effective IaC tools like Terraform and simple CI/CD pipelines with tools like GitHub Actions or Jenkins to streamline deployments.

### Task

- feature-xy branch with txt file containing unique content



- bugfix-xy branch with txt file containing unique content



#### Task

## **Cause of the Merge Conflict**

A merge conflict occurs when Git is unable to automatically combine changes from two branches due to conflicting modifications to the same lines of a file. In this scenario:

- The feature-xy branch modified text.txt with specific changes.
- The bugfix-xy branch made different, conflicting changes to the same lines in text.txt.
- When attempting to merge bugfix-xy into feature-xy, Git could not decide which version of the changes to keep.

### **Steps Taken to Resolve the Conflict**

- Opened the conflicted file (text.txt) in a text editor.
- Edited the file to resolve the conflict by combining the changes into a meaningful final version.

