

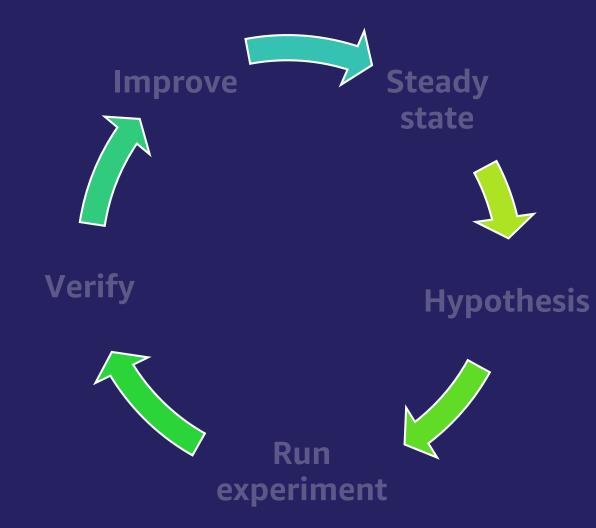
Improve Resilience with Controlled Chaos Engineering

Gunnar Grosch Sr. Developer Advocate, AWS @gunnargrosch

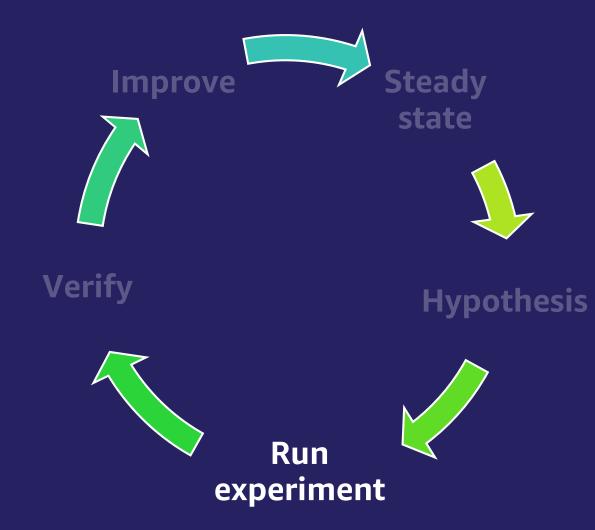
What we'll cover

- Different methods for creating experiment templates
- Targeting different AWS services
- Using steady state and stop conditions
- Running experiment continuously through automation

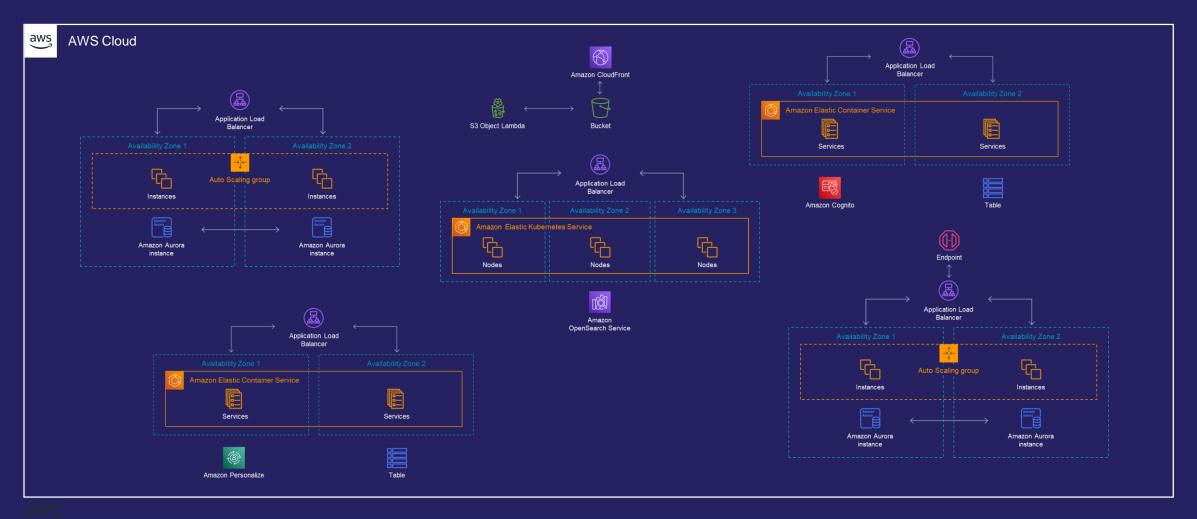
Phases of chaos engineering

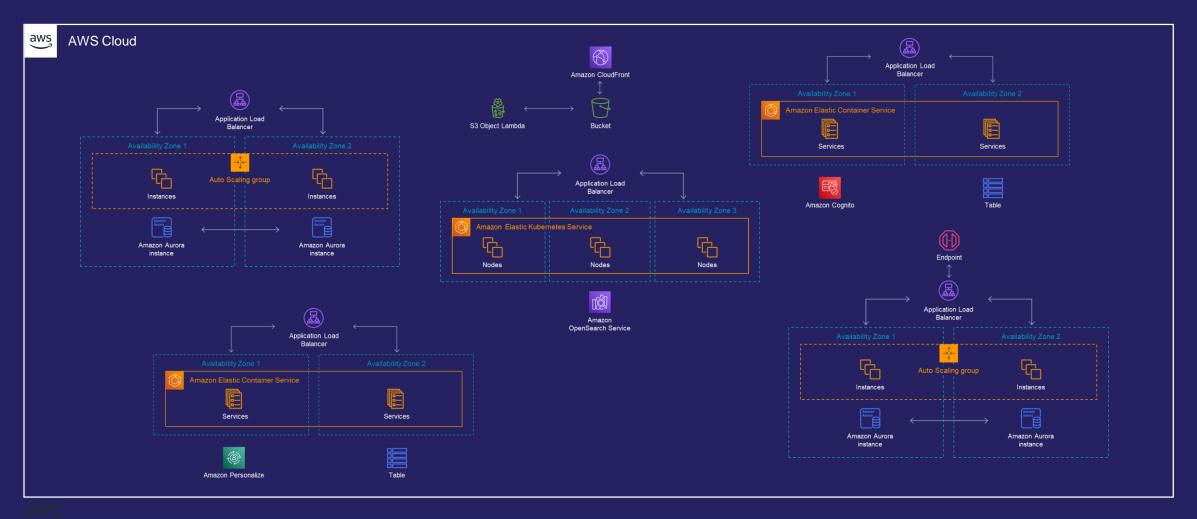


Phases of chaos engineering

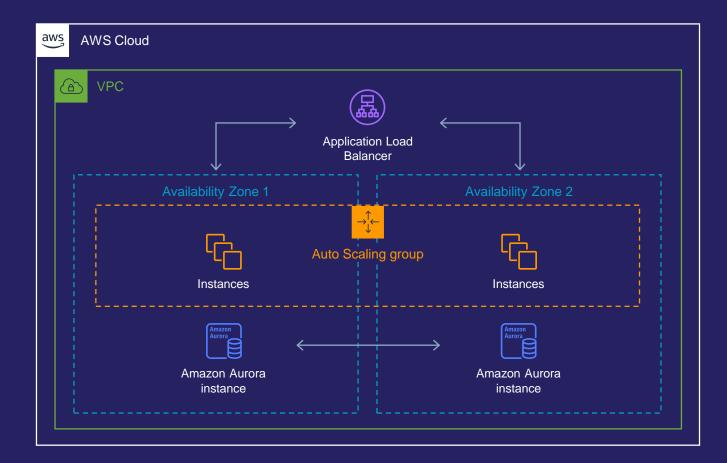






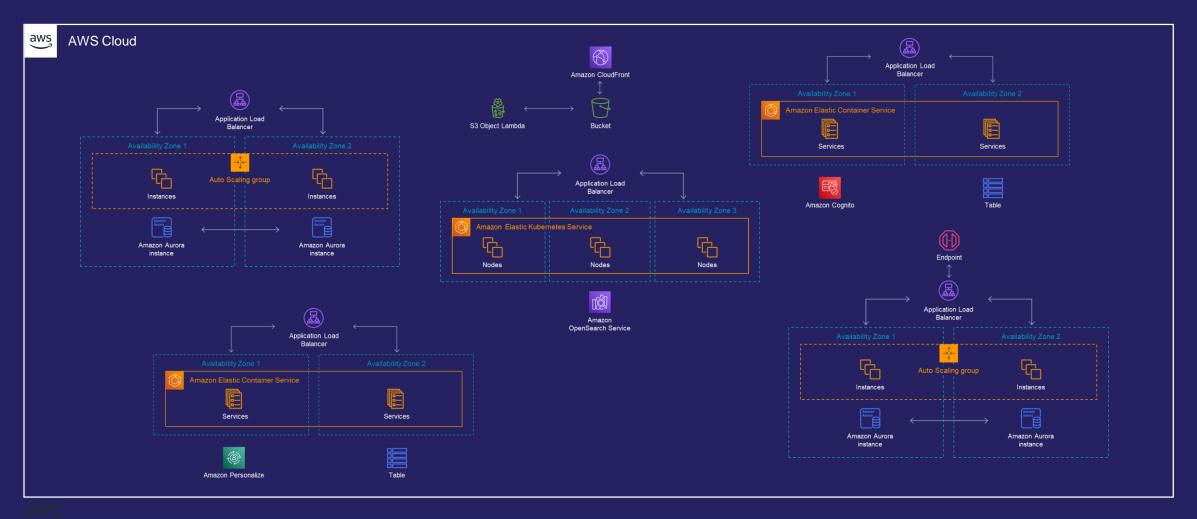


Demo application – Product service

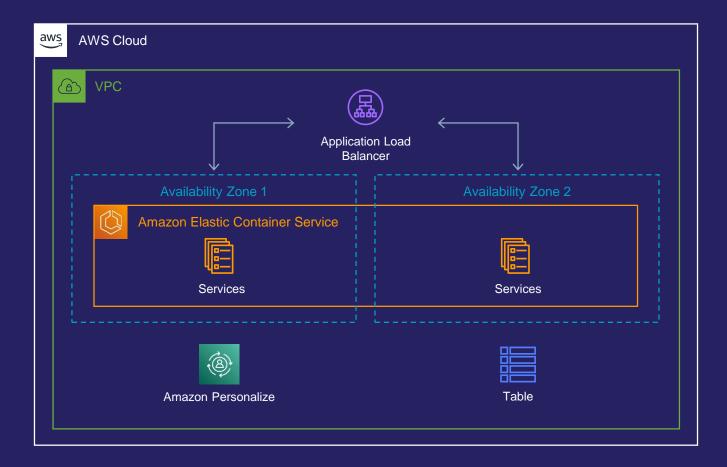


Demo EC2



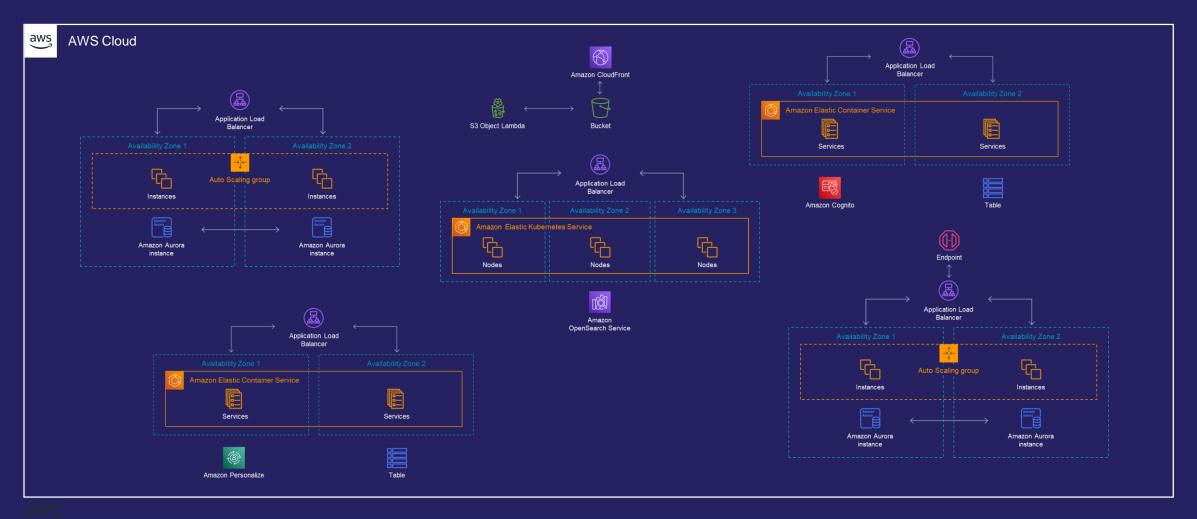


Demo application – Recommendation service

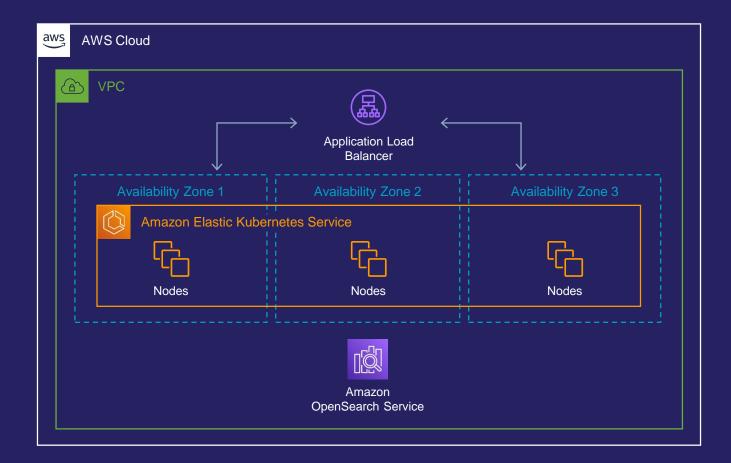


Demo ECS



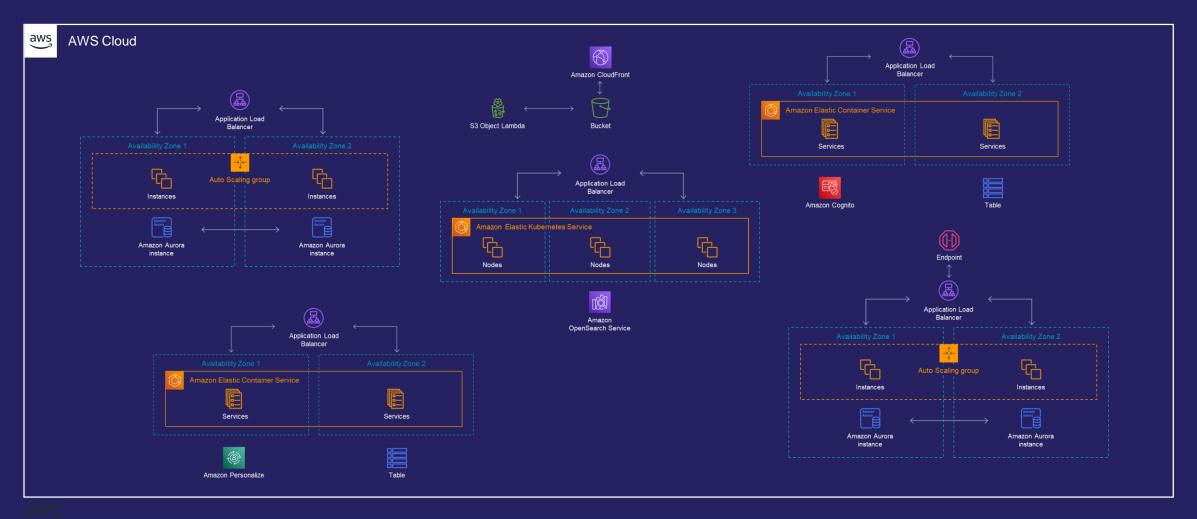


Demo application – Search service

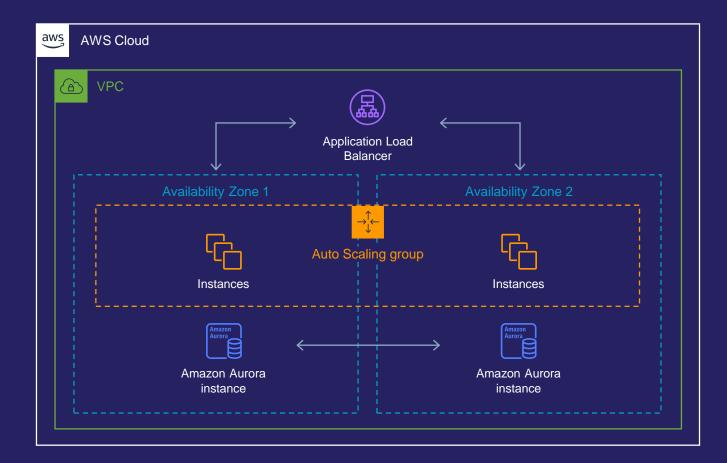








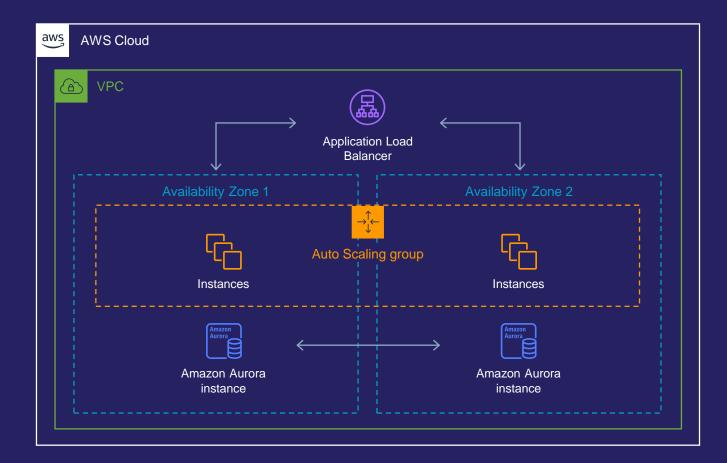
Demo application – Product service



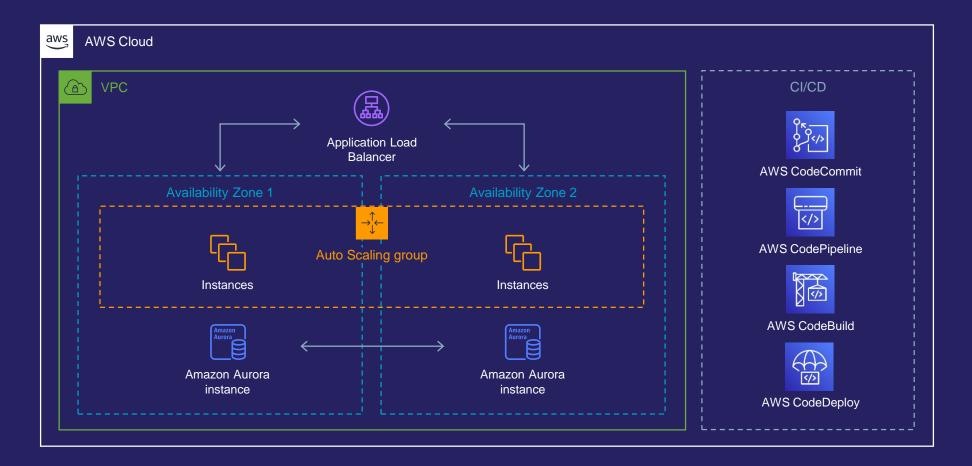
Demo scheduled experiments



Demo application – Product service



Demo application – Product service



Demo continuous delivery experiments



What we covered

- Different methods for creating experiment templates
- Targeting different AWS services
- Using steady state and stop conditions
- Running experiment continuously through automation

Takeaways

- Know your application's steady-state
- Have monitoring and alerting in place
- Create your hypothesis with the customer in mind
- Chaos engineering should be done regularly
- Test, test, and test some more

Resources



grosch.link/controlledchaos





Thank you!

Gunnar Grosch Sr. Developer Advocate, AWS @gunnargrosch