

What is Chaos Engineering?

"Breaking things on purpose"

"I know it's something Netflix does, but we could never do that here!"

"Isn't that just a fancy name for performance testing? It's another buzzword."

"Um.. what the heck is that?"

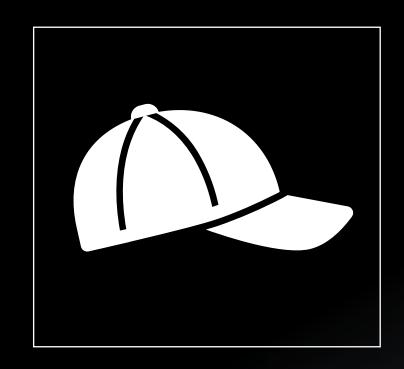
Chaos Engineering = Resilience Testing

"Chaos Engineering is the discipline of experimenting on a distributed system in order to build confidence in the system's capability to withstand turbulent conditions in production."

- Principles of Chaos







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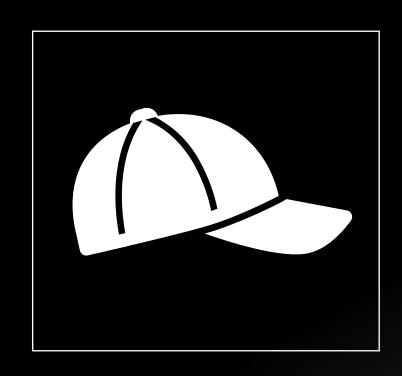


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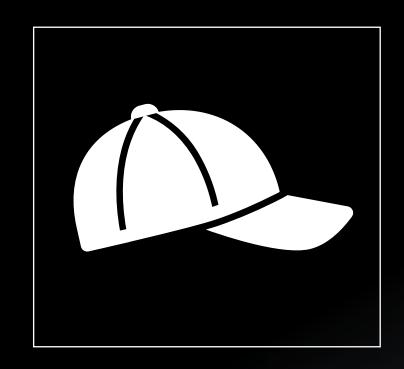
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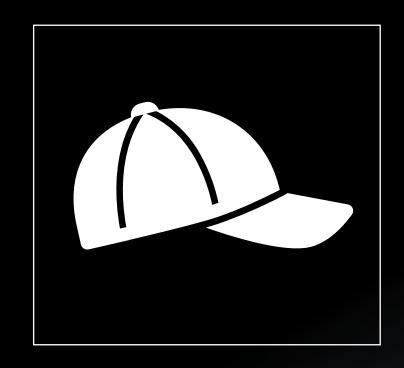


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Why is Chaos Engineering Valuable?

Infrastructure fails all the time

Validate automated resilience mechanisms

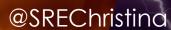
Train incident responders and engineers on-call

Build vs. Buy

Open Source Tool

Vendor Product

Build our own lean MVP



The Climate of Chaos

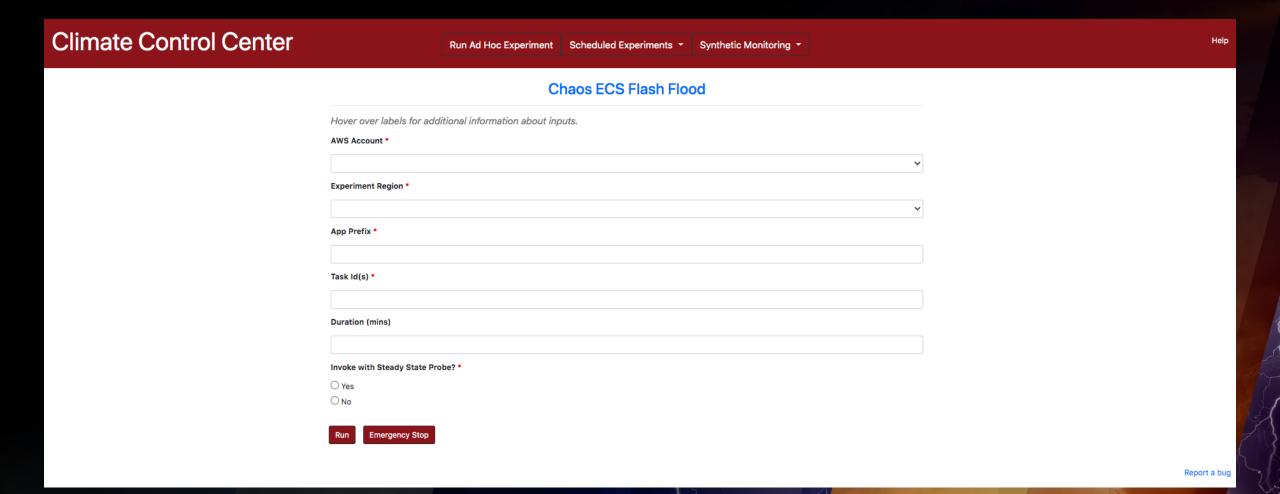
Climate Control Center

Please select the desired phenomenon. RDS EC2 PCF Libraries **ECS API Based Phenomena** Chaos Cyclone Task termination - terminates random ECS task(s) within the cluster inputted Chaos Drought "Unavailable app" - sets the ECS task count to zero within the cluster inputted for a specified period of time Chaos Tornado Task termination - terminates specified ECS task(s) within the cluster inputted Agent Based Phenomena Chaos Flash Flood CPU Attack - consumes CPU resources on specified ECS tasks for a given period of time Chaos Mudslide Memory Consumption - reduces available memory of specified ECS tasks for a given period of time

Run Ad Hoc Experiment | Scheduled Experiments | Synthetic Monitoring |

Report a bug

The Climate of Chaos



Our Guiding Principles

Serverless

Easy Adoption

Defined Guardrails

Integrated Reporting

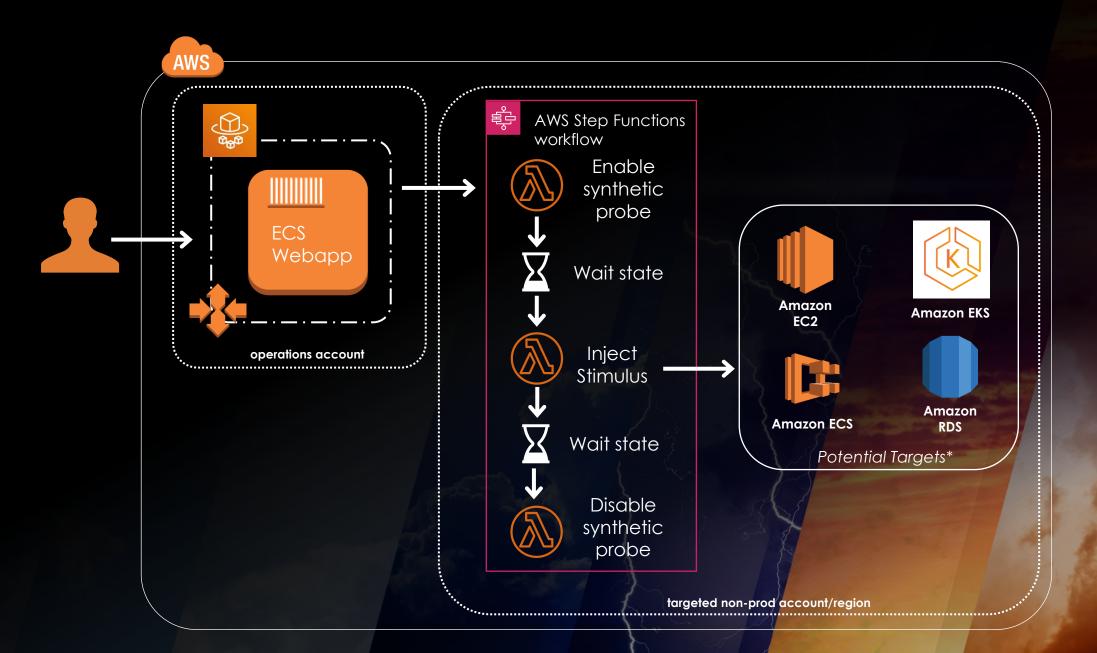
Serverless Architecture

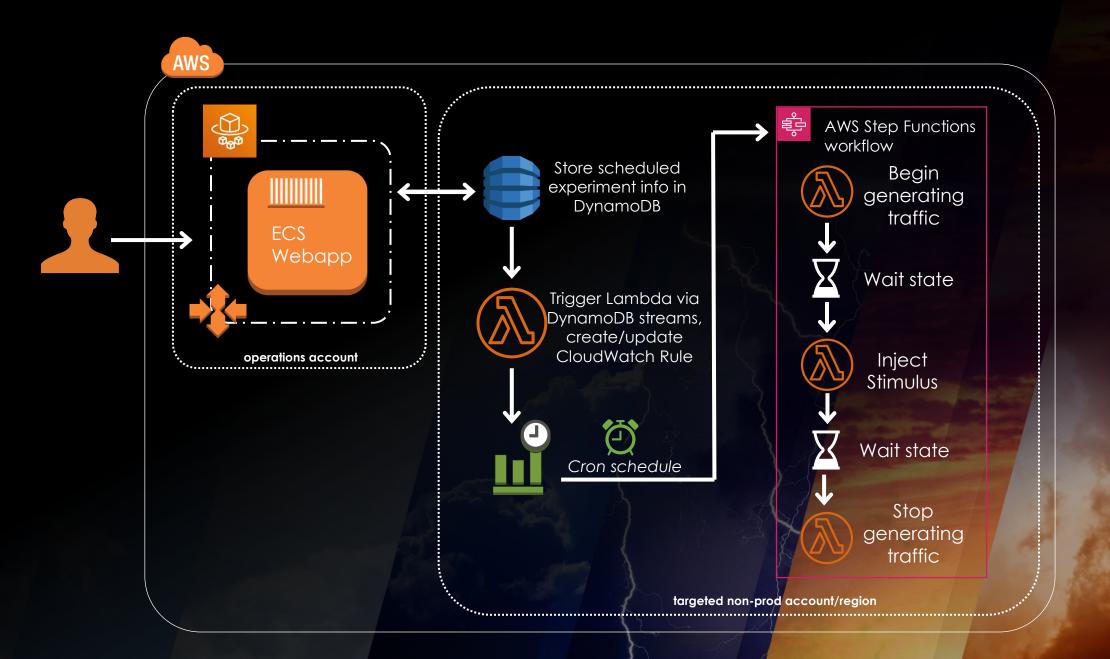
AWS ECS Fargate web application

AWS Lambda with Step Functions

AWS DynamoDB

AWS CloudWatch Events





Climate Control State Machine



Easy Adoption

Self-service model

No code changes needed!

Well-documented tool

Defined Guardrails

Minimize blast radius

Tag-based permissions

Non-production only, for now...

Integrated Reporting

Fault injection is only useful if you can see the results!

Enable creation of "steady state probes"

Common dashboards for visualization

What's next for our team?

Continue to develop new phenomena

Focus on coaching to encourage broader adoption

Introduce more complex tools that do require minor code changes

More advanced automation and scheduling

