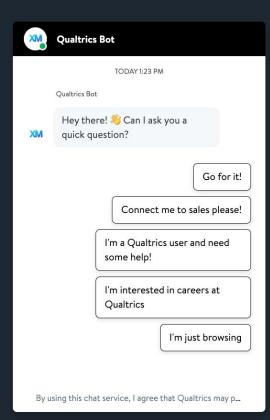
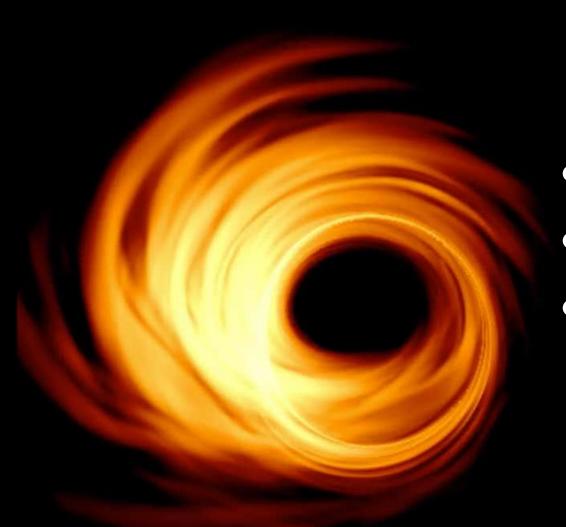
Chaos Engineering By the Numbers

qualtrics.XM

qualtrics





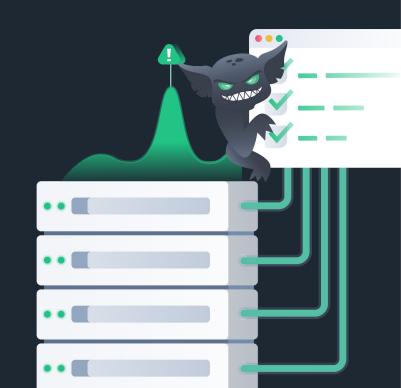


qualtrics

- 40+ teams
- < 3 months
- 500+ hrs saved

Mission

Build a more reliable internet.



Gremlin

Proactively improve reliability

Free stickers: gremlin.com/talk/SkillUp-Days



Chaos Engineering

Thoughtful, planned experiments designed to reveal the weakness in our systems.



Chaos Engineering

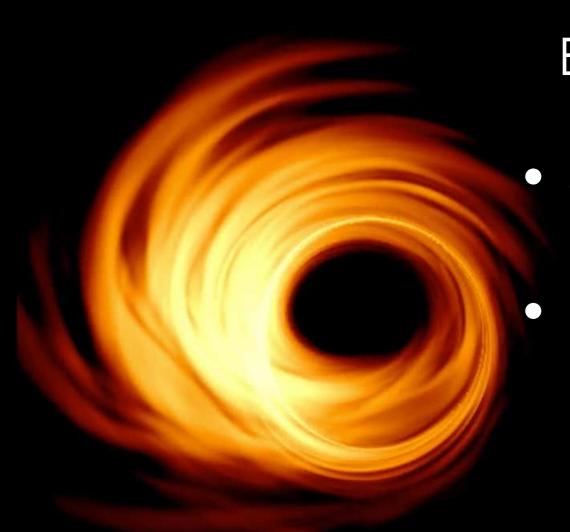
Thoughtful, planned experiments designed to reveal the weakness in our systems improve our understanding of how systems work, so that we can improve them.



Chaos Engineering

- 1. There's a process. It's planned, not random.
- 2. Validate your mental models/understanding.
- 3. Use your knowledge to improve systems.
- Build a practice and culture of learning





Blackholes

2nd mostpopular attack

~5700 attacks inQ1 2021

What percent of your incidents (SEV0&1) have been caused by:





Let's get into some numbers

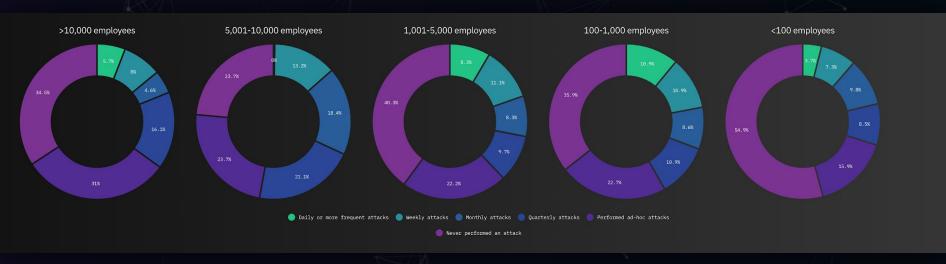
State of Chaos Engineering

- 400+ respondents
- Large range of company sizes
- Broad range of company ages
- Mix of industries
- Varied maturity levels

gremlin.com/state-of-chaos-engineering



Who is running Chaos Engineering attacks? (by size of org)





So how do you do it?

- 1. Question
- 2. Hypothesis
- 3. Testing
- 4. Analysis
- 5. Share & repeat



1. Question:

Is my app / system reliable?



1. Question:

Is my app / system reliable?

Does my app / system work the way I think it does?



- 1. Question
- 2. Hypothesis:

I think given \$CONDITION, my app / system will \$REACTION



- 1. Question
- 2. Hypothesis
- 3. Testing:

Insert failure or replicate the condition



- 1. Question
- 2. Hypothesis
- 3. Testing
- 4. Analysis:

What did you learn?

What can be improved?



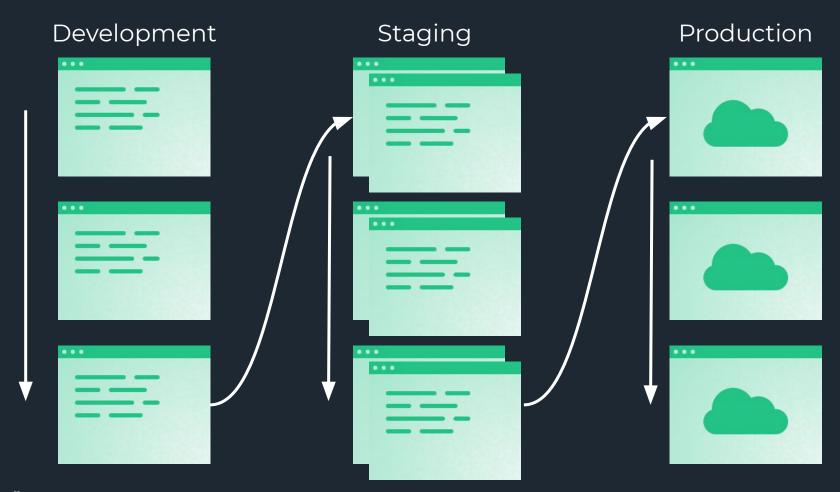
- 1. Question
- 2. Hypothesis
- 3. Testing
- 4. Analysis
- 5. Share & repeat:

Share your learnings!

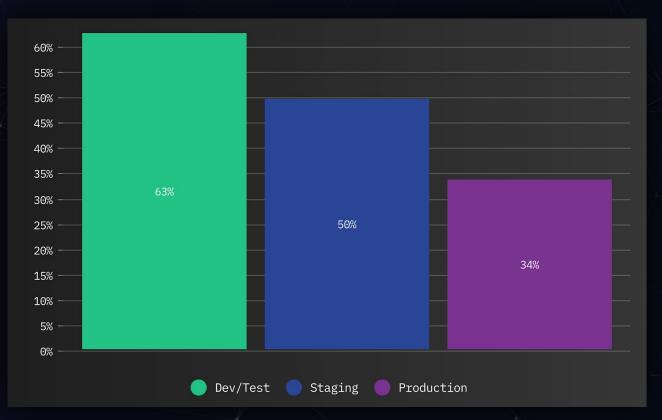
Repeat to test improvements



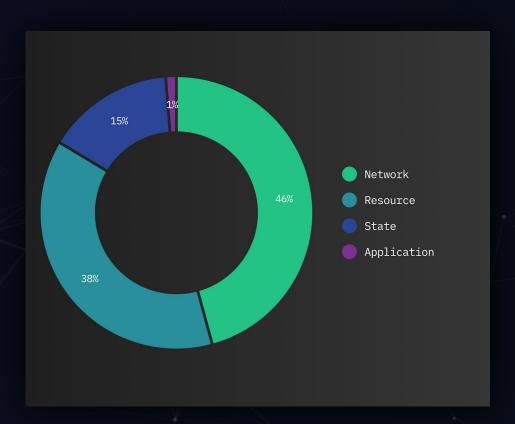
Start Small & Increase the Blast Radius



Where are they running Chaos Engineering attacks?

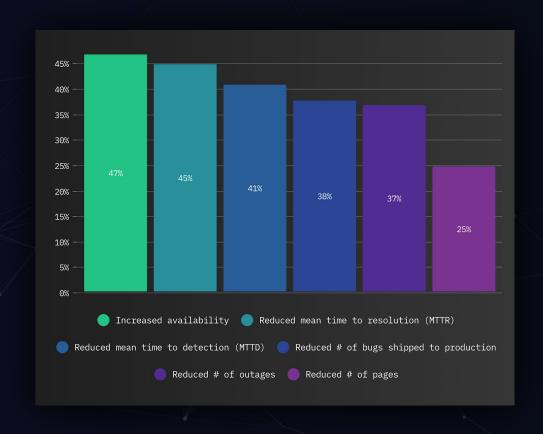


What Chaos Engineering attacks are they running?



More results & what's next?

What results can you expect?

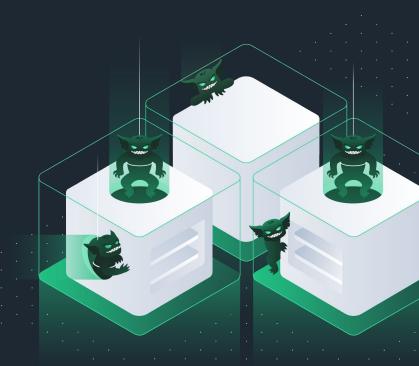




State of Chaos Engineering

Teams who frequently run
Chaos Engineering experiments
have >99.9% availability

23% of teams have a mean time to resolution (MTTR) of under 1 hour & 60% under 12 hours



Thank you! Questions?

Stickers: gremlin.com/talk/SkillUp-Days Report: gremlin.com/state-of-chaos-engineering

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