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The Evolution of Chaos

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What is Chaos Engineering?
Chaos Engineering:

Thoughtful, planned experiments designed to reveal the weakness in our systems.
Like a vaccine, we inject harm into our systems to build an immunity.

We test **proactively**, instead of waiting for an outage.

Once validated, scenarios are **automated** to prevent the “drift into failure.”
What is NOT Chaos Engineering?
What’s in a name?

CHAOS
   Exciting
   Mischievous

ENGINEERING
   Disciplined
   Respectable
What’s in a name?

ENGINEERING  CHAOS
Chaos Engineering isn’t new...

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and it continues to evolve and mature
Why now?
We’re doomed!
Amazon AWS S3 outage is breaking things for a lot of websites and apps

Chaos as global IT failure takes out all British Airways flights out of London

Delta outage a reminder of fragility of airline computers
Chaos Engineering prepares for unpredictable failure.
A Methodology for Chaos
Minimize the blast radius.

1. Form a hypothesis.
2. Run an experiment.
3. Abort Conditions
   - Failure
   - Find and fix issues.
4. Success
   - Scale up and repeat.
Prepare for Real World Scenarios.
My boss won’t let me...

“We don’t have time.”

“We don’t need to break things — they break on their own.”

“We don’t know how to get started.”
This can’t wait!
Join the community!
Thanks!

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