Chaos Engineering
For complex architecture with modern cloud aged applications

Introduction

Chaos Engineering is a new-age failure-as-a-service offering that strategically injects failures as experiments on the system in order to build confidence in the system's capability to withstand production loads, outages and unknown hidden inefficiencies. It also helps uncover major faults in the system before occurrence of production outages, with the help of chaos tools, solutions and platforms.

Key Takeaways

- **Real-time, contextualized notification:** Recognize the priority of each incident through notifications and inform the relevant teams
- **Automated workflow:** Reduce efforts through limited incident management. Integration to CI/CD flows.
- **Ease of access** Deployed with existing infrastructure without any changes in product/ security settings, with inference-based reports
- **Seamless occupancy management:** Automatically notify impacted channel, identify specific groups and channels as designed with detailed reports

Key Benefits

For engineering and Dev-Sec-Ops teams
- Uncovering major faults in the system before production outages
- Well designed with systematic blast radius approach for target systems
- Well integrated with CI/CD lines, alerts, monitoring tools like Grafana and Prometheus

For occupiers
- Reduced incident management and ambiguity between microservices over issues and their ownership
- Cost and time savings with early issue detection and remediation

For companies
- Increased product and customer trust
- Increase in employee productivity with product reliability
- Saved costs on outage losses, maintenance, operational cost, and reworking code time resulting in increased revenue and trustworthy product with system
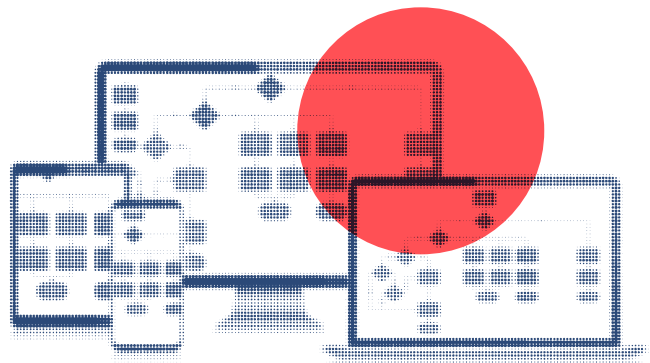
Features

- **Proactive faults detections**
  Chaos experiments uncover unknown faults in systems at various levels - infrastructure, platform, network, and database
- **Powerful features & reporting**
  Integration with logging & monitoring tools for easy tracking and proactive failure detections

Failure-as-a-service concept to cater to highly complex modernized systems on cloud to achieve product reliability

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