

Engineering for resiliency

minimising incidents and mitigating your key risks

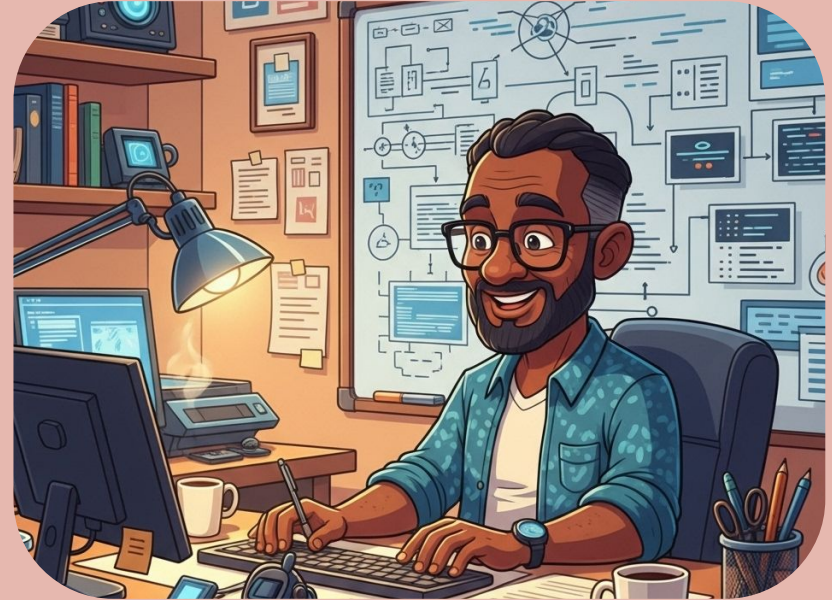
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Today's workshop

- Part 1: identifying & mitigating risks in your organisation
- Part 2: responding when things go wrong



Hello 🖐️



Introduce yourself!



What do I mean by resiliency?



*“...designing and building systems,
infrastructure and processes that can
withstand, adapt to, and recover from
unexpected disruptions, shocks, and changes”*

Anti-fragility

Identifying & mitigating risks



Frameworks/strategies

- RCSA
- Pre-mortems
- Post-mortems
- Game days
- Controls testing





Using data to help

- SLOs
- Error budgets
- Control effectiveness
- No repeat incidents



Activity

1. Think through the top 2-3 risks you have in your org today re: engineering resilience
2. Share what they are and how you identify those risks today
3. Think through what you're *actually* doing about them — are you doing enough

When things go wrong



Banks to pay customers millions

after months of IT outages

Heathrow boss sorry for sleeping
through outage with phone on silent

customers locked out of app **to**

SECURITY

SOCIAL

APPS

Reddit is down again

s experience global outage

**Your response is what your customers
will remember**



Respond quickly

- Invest in tooling
- Defined roles for response
- Clear escalation paths
- Cross-functional support
- Practice!!!

Communication strategy

- Transparent by default
- Template-driven
- Tailored messaging for different stakeholders
- 3 C's of crisis comms — clear, consistent, compassionate





Decision making

- Remove humans where possible
- Outline your principles for decision making
 - Rollback or fix forward?
 - Define your impact tolerances
 - Who makes the decisions?



Invest in learning

- Post-mortems
- Focus on systems; not individuals
- Track and ship the improvements you identify
- Celebrate the unglamorous!



Activity

Responding
quickly

Ready-made
comms strategy

On-rails decision
making

Post-incident
learning

Rate each capability for your
organisation 1-5; then discuss

Thanks!



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