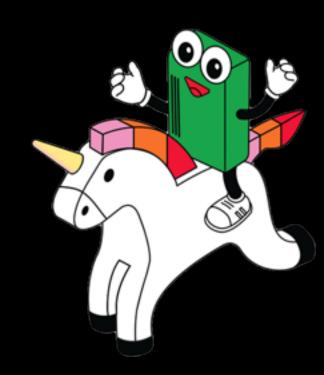
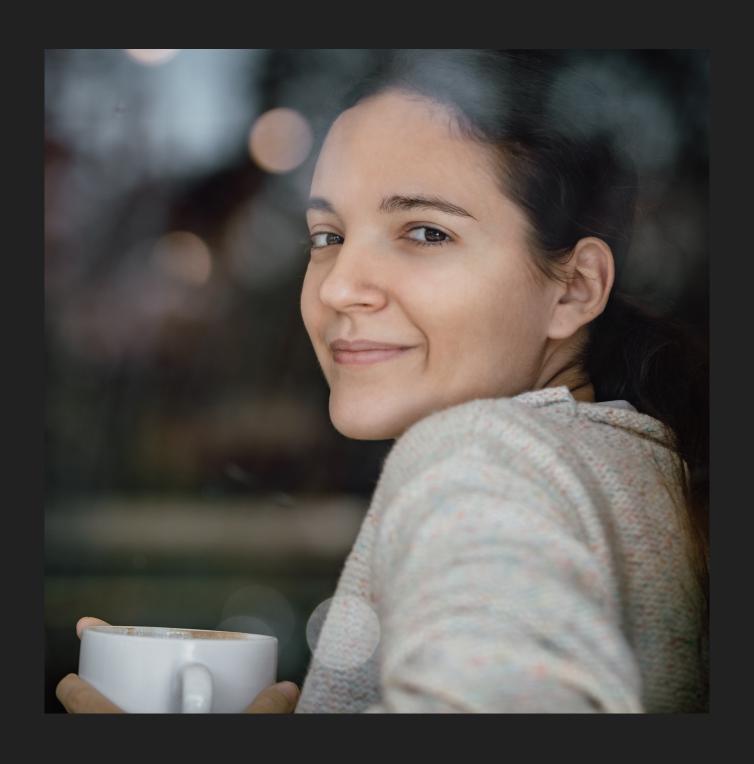
Resilience for Retail

A Tale Not About Ice Cream But Somehow Also About Ice Cream





Quintessence Anx DevOps Advocate @ PagerDuty



Don't panic



Elevated response period





How to determine your Elevated Response Period



What support is needed





Build or Buy 🔲 :: Make or Buy 🧁





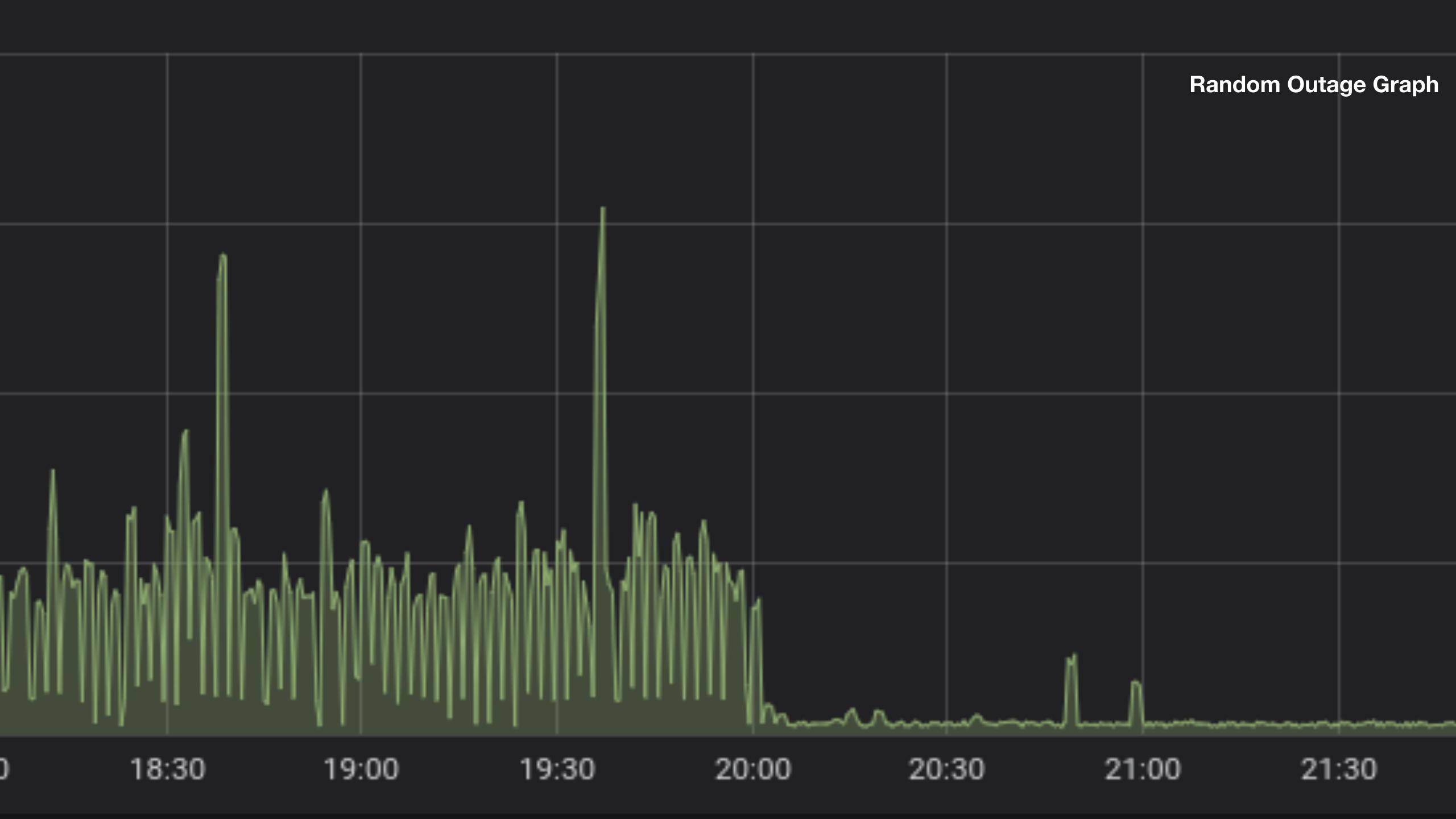








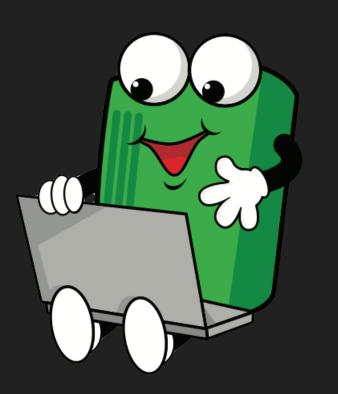
v0 Architecture



What, When, Where



Let's Talk a Little About Resiliency Itself



A resilient system is a system that is able to withstand adversity.



Something is resilient if it is able to withstand adversity.



What can this look like?



Organizational Resilience can look like having the appropriate response structure(s) in place for IT systems, services, and users in the event of a latency or outage.



(IT) System Resilience can look like an application not going down, and/or autoscaling, in response to increased traffic.

Why is this important?





Response and Design





Resilient Response



Resilient Response Checklist

- Define elevated response
- Maximize experienced responders
 - Both primary and secondary
- Do not design around resources you do not have
- Minimize responder burnout

- Clear handoff procedures
- Clear ownership
- Dedicated, clear, responder roles
- Practiced response process
- Validate responder access to tools and data
- Updated documentation

Define elevated response



Maximize Experienced Responders



Do not design around resources you do not have

Responder Burnout



Clear Handoff Procedures



Clear Ownership





Dedicated, clear, responder roles





Practiced Response Process





Validate access to tools and data



Updated documentation



Resilient Response Checklist

- Define elevated response
- Maximize experienced responders
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- Clear handoff procedures
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- Dedicated, clear, responder roles
- Practiced response process
- Validate responder access to tools and data
- Updated documentation



Resilient Design Checklist

- Build, test, secure with scalability in mind
- Build, test, secure with humans in mind
- Build, test, secure with redundancy and/or failover in mind
- Build, test, secure with operator control in mind
- Build, test, secure with observability in mind

- Automate as much as is feasible
- Keep documentation updated in pace of releases
- Do not design around resources you do not have
- Clear ownership
 - Who owns the service, writes the code, etc.

Build, test, secure



Build, test, secure: scalability



Build, test, secure: humans

Build, test, secure: redundancy / failover



Build, test, secure: operator control



Build, test, secure: observability



Automation



Updated documentation



Do not design around resources you do not have

Clear ownership



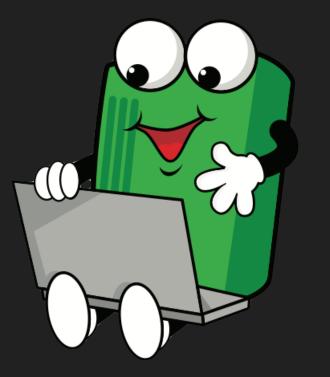
Resilient Design Checklist

- Build and test with scalability in mind
- Build and test with humans in mind
- Build and test with redundancy and/ or failover in mind
- Build and test with security in mind
- Build and test with operator control in mind
- Build and test with observability in mind

- Automate as much as is feasible
- Keep documentation updated in pace of releases
- Do not design around resources you do not have
- Clear ownership
 - Who owns the service, writes the code, etc.

Practice with Ice Cream









Understand the Business









Resilient Response: Questions to Ask

- What cannot go wrong?
- What is at risk of going wrong?
- What responses are needed in each situation?
- Who is doing what step(s) in the response process(es)?
- Are we in an Elevated Response Period?
 - And are separate considerations for that period defined?



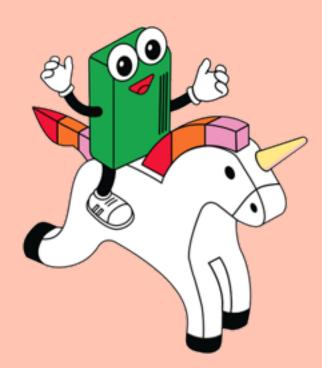
Resilient System: Questions to Ask

- How do we prevent "what cannot go wrong"?
- How do we mitigate risk for "what else can go wrong"?
- How do we support our response process(es)?
- How do we support our responders?
- How does an elevated response period impact our system?

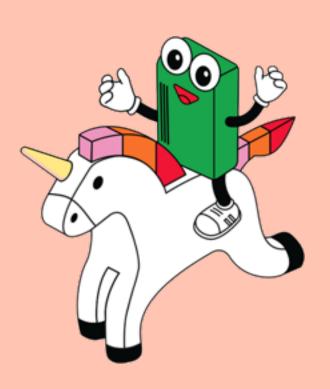


Resiliency is not limited to IT systems and personnel





Resources & References noti.st/quintessence







Questions?

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