

Playing in the Rain: Preparing for Incidents with Game Days

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Agenda

01

02

03

Why?

How?

WIIFM?

Operational Excellence

Game Day Playbook Lessons Learned

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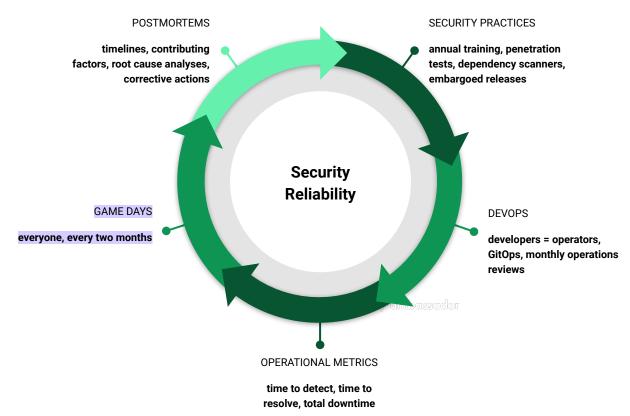


Operational Excellence

- At Ambassador Labs, it's everyone's responsibility
- Our customers count on us to deliver products and services that are secure and reliable
- We work to continuously improve security and reliability but must be prepared to respond effectively in the case of an incident

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Continuous Improvement



Effective Response

DECLARE		RESOLVE		
DETECT	CONTAIN	INVESTIGATE	REMEDIATE	RECOVER
System uptime checks	On-call rotations - Support	Response Team - First Responder	Remediation Plan	Patch Releases
24x7 after hours phone	- Engineer - Escalation	- Incident Commander	Hotfixes	Postmortems
Alerts - PagerDuty - Slack - email	Manager Incident Checklists	 Support Lead Engineering Lead Subject Matter 	ChatOps	Corrective Actions
	Redundancy	Experts		

Game Days

What?

Controlled exercises
(once every 8 weeks)
that simulate real
incidents to practice our
ability to respond to
them

Who?

Everyone, but focused on anyone that's on call (Engineering, Support, Management)

Why?

Improve our processes, test system resiliency, validate observability mechanisms, and reduce stress during real incidents

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How?Game Day Playbook

Let's Play a Game...

01

Nominate a
Game Master

02

Send out a primer

03

Let it rain!

04

Use a dedicated Slack channel

05

Hold a postmortem

06

Debrief with the team

Roles and Responsibilities

Game Master

Takes care of triggering the incident, keeps notes and monitors the game in case it needs to be aborted, and holds a debrief to review key takeaways

Accomplices

Assist the Game
Master with carrying
out the exercise (e.g.,
by pretending to
report an anomaly)

Responders

On call staff and Subject Matter Experts that investigate and resolve the incident

or

Planning the What

scenario	What scenario will be tested by this exercise?
target	What product(s) and/or or service(s) will be targeted?
hypothesis	What is your hypothesis for how the scenario will play out?
takeaways	What do you expect to be the key takeaways from the exercise?
cost	What impact(s) will the exercise have on the business?

Planning the Who

stakeholders Who will be affected by the exercise? **accomplices** Who will be involved in conducting the exercise? responders Who do you anticipate will respond to the incident? **SMEs** Who are the Subject Matter Experts for the target products/services? reviewers Who should review the plan for awareness and/or approval?

Planning the When

start	When will the exercise start?
end	When will the exercise end and under what circumstances will it end early?
debrief	When will the debrief be (be sure to allow time for a postmortem)?

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Planning the How

trigger	How will the incident be triggered?
resolution	How should it be resolved?
nudge	How will responders be "nudged" if they don't respond as expected?
halt	How will the exercise be halted if it needs to end early?

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One Rainy Day at Ambassador Labs...

scenario	Introduce a typo in one of the shortened web links used by Marketing.
target	Business critical links that are managed in Bit.ly.
hypothesis	We won't notice the problem and will struggle to fix it once prompted.
takeaways	No monitoring in place, incomplete and redundant documentation.
cost	Potential users won't be able to follow the link during the exercise.



WIIFM?

Lessons Learned



Improvements to Date



Better procedures for responding to customer outages



Streamlined reporting of customer incidents



Increased clarity around incident roles and responsibilities



Improved alerting for system uptime checks



Faster response times for business hours outages

Best Good Practices



Rotate the Game Master responsibility so everyone gets a turn



Schedule them when it's less disruptive and stressful for the team... or not!



Make scenarios as realistic as possible - rain, not sun!



Crawl before you walk... and then run!



Actually follow through on corrective actions

Thanks!

We're Hiring!

https://www.getambassador.io/about-us/careers/

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