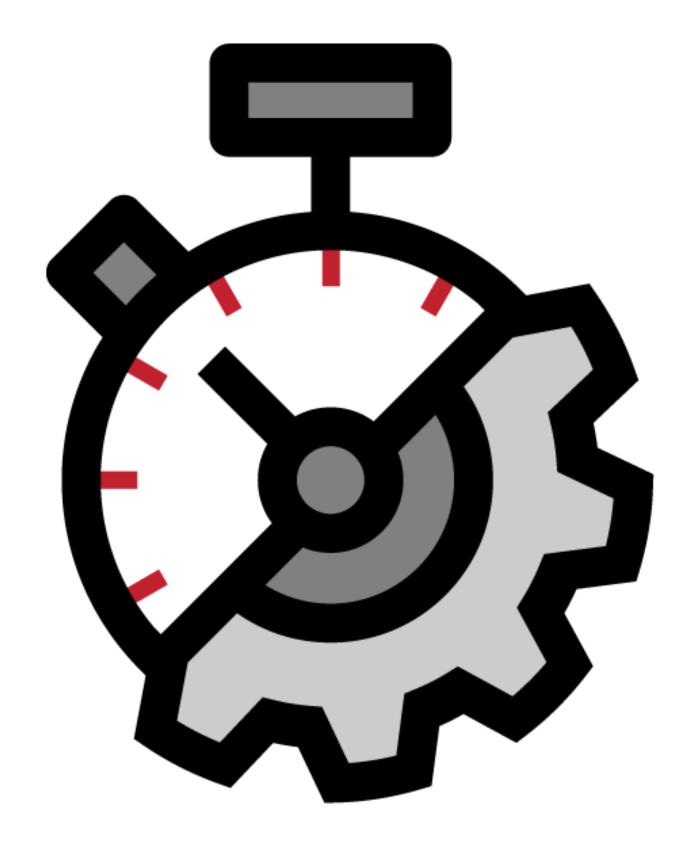
Incident Management and ChatOps



Daniella Niyonkuru (@niyodanie)







Production Engineering



#war-room

⇔ | ⊗ 425 | ⋄ 0 | No incidents right now.







Q Search







Daniella Niyonkuru 5:42 PM

spy incident start me checkout is down



An incident was reported at 2017-02-23 22:42:36 UTC. @daniella is the IMOC.

Status summary: checkout is down

Incident was bound to #war-room. Please use #war-room for communications, or rebind the incident with incident

channel

spy APP 5:42 PM

set the channel topic: 🍅 @daniella is IMOC for incident: checkout is down



Camilo Lopez 🍖 5:42 PM 🏗

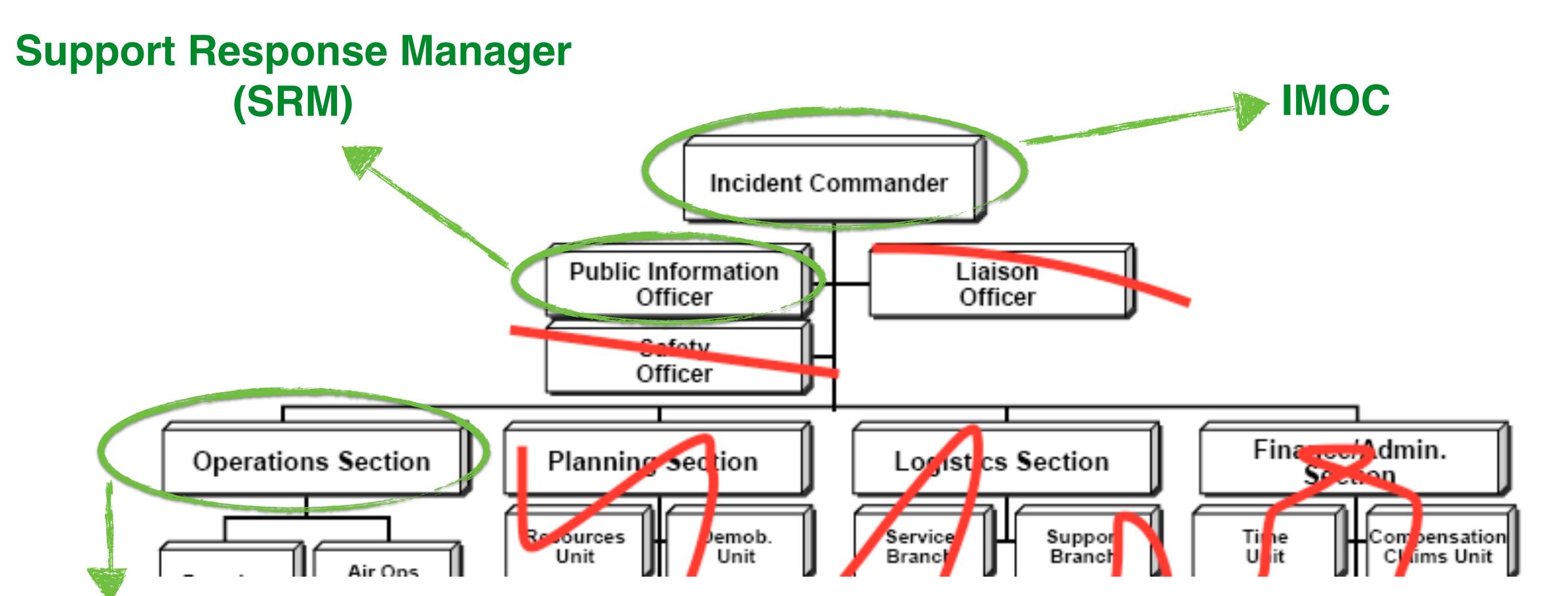






INCIDENT MANAGER ON-CALL (IMOC)





Component Experts

Incident Command System (ICS)

The IMOC is on-call for Incident Response;

NOT on-duty for fixing production issues.

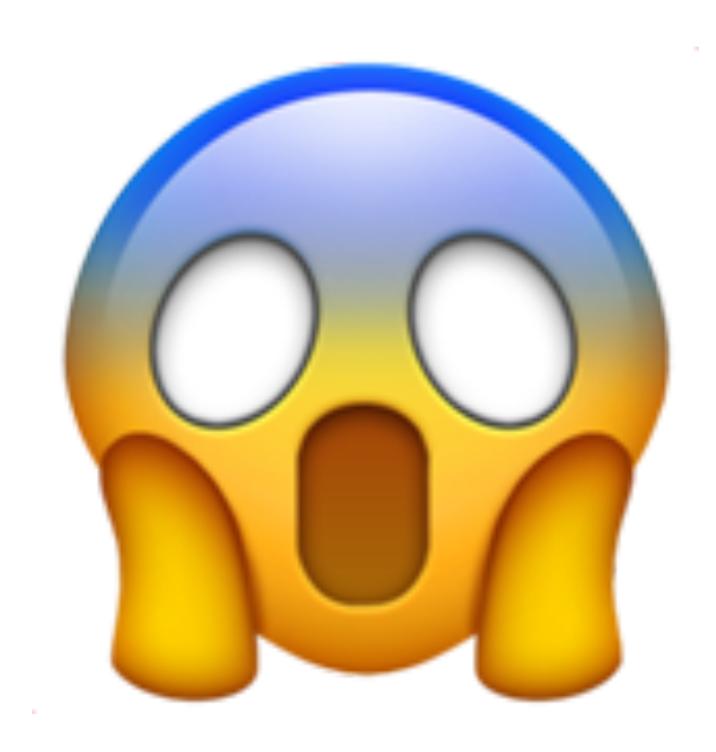
Incident Response Funnel

- → Shit breaks
- Detection
- → Start Incident
- → Communicate
- → Fix
- → Stop Incident
- → Document (Service Disruption)
- → Investigation
- Root Cause Analysis (RCA)
- → Action Items
- → Resolution



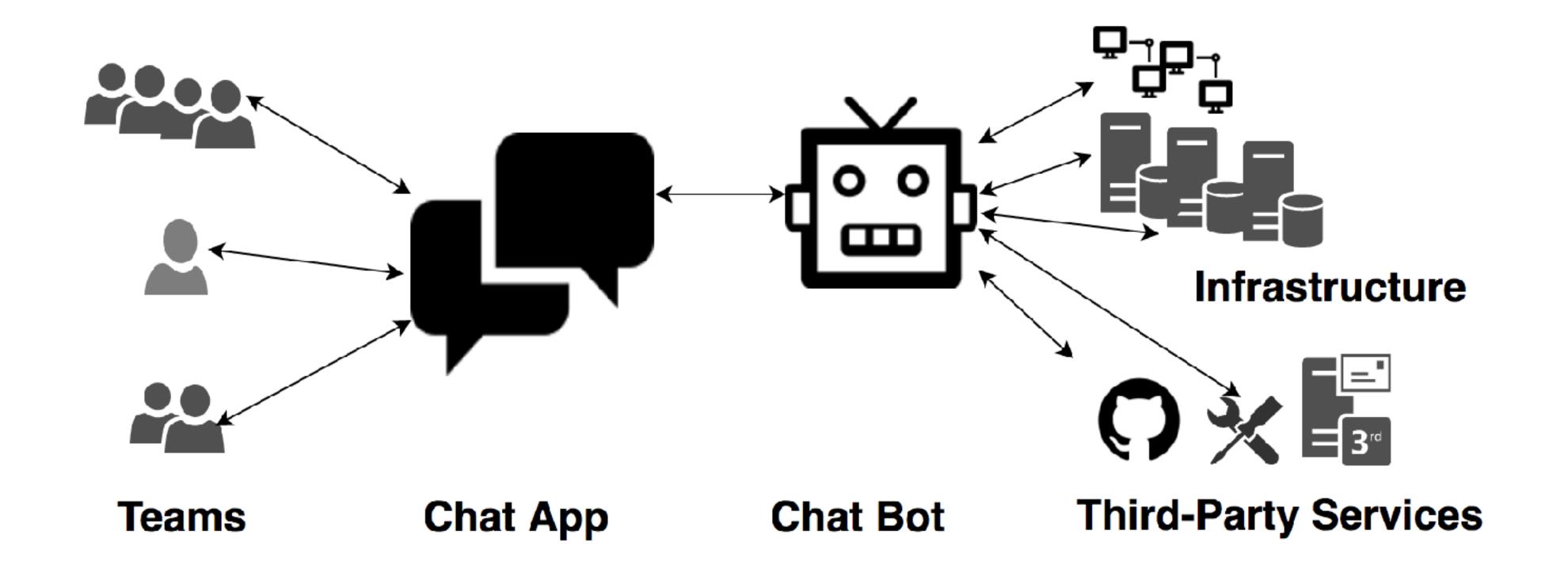
Pager Anxiety; What if ...

- Forget I'm on-call
- Phone in silent mode
- Forget to update the status page
- Don't know who to ping
- Too much context switching, can't focus
- Forget the incident response procedure

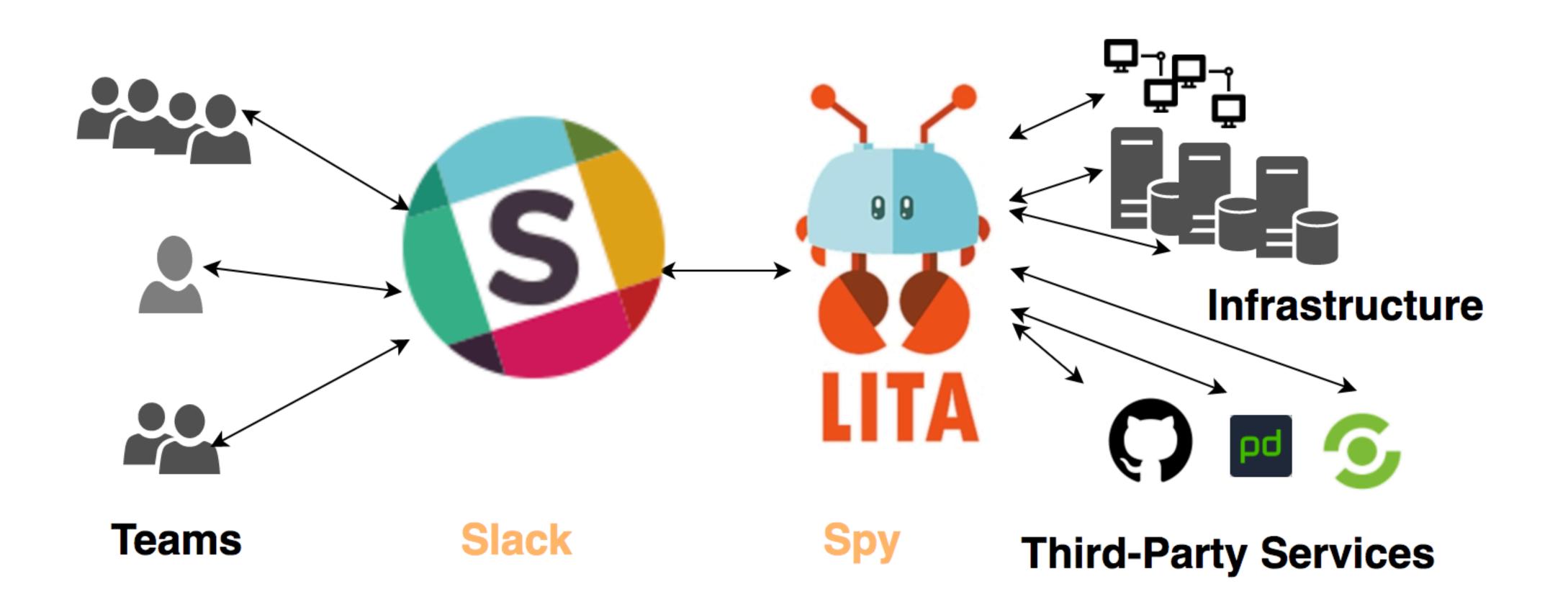




Conversation-Driven Collaboration



Chatops at Shopify





Incident Management Tools

Three main sets of commands:

- spy page
- spy incident
- spy status

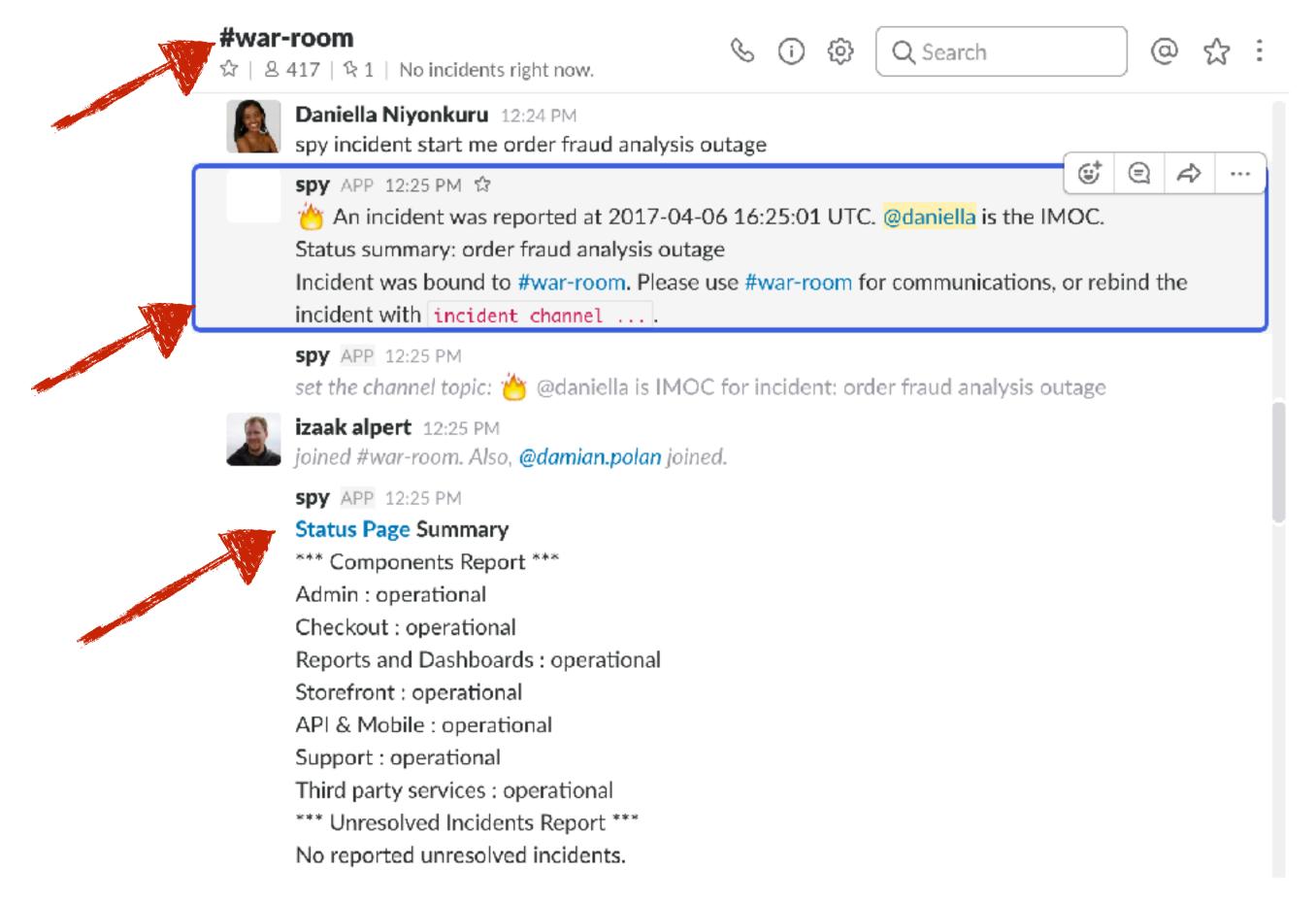
- → Shit breaks
- Detection
- **→** Start Incident
- Communicate
- → Fix
- → Stop Incident
- → Document (SD)
- → Investigation
- → RCA
- Action Items
- Resolution

Shit breaks

→ spy page imoc "order notifications not going out"

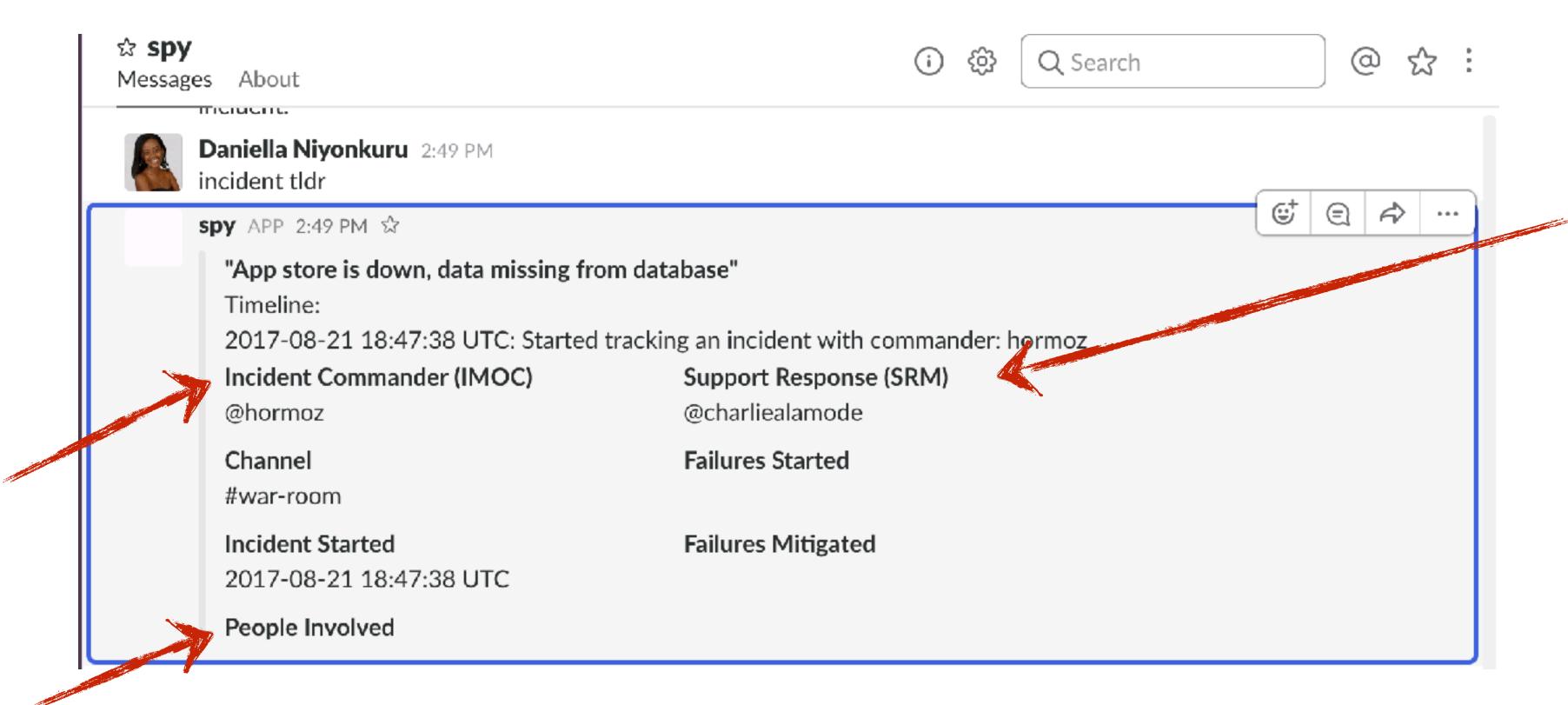
Start incident

⇒ spy incident start me order fraud analysis outage



Communicate

⇒ spy incident tldr



Other Teams

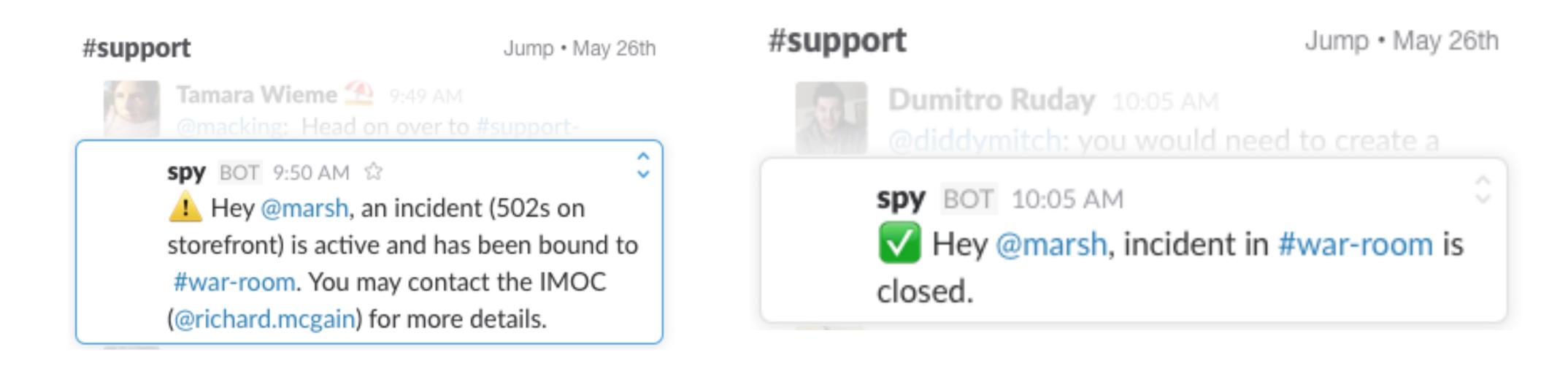
⇒ spy incident tell :team message

Is this incident high-impact? If so, did you consider paging

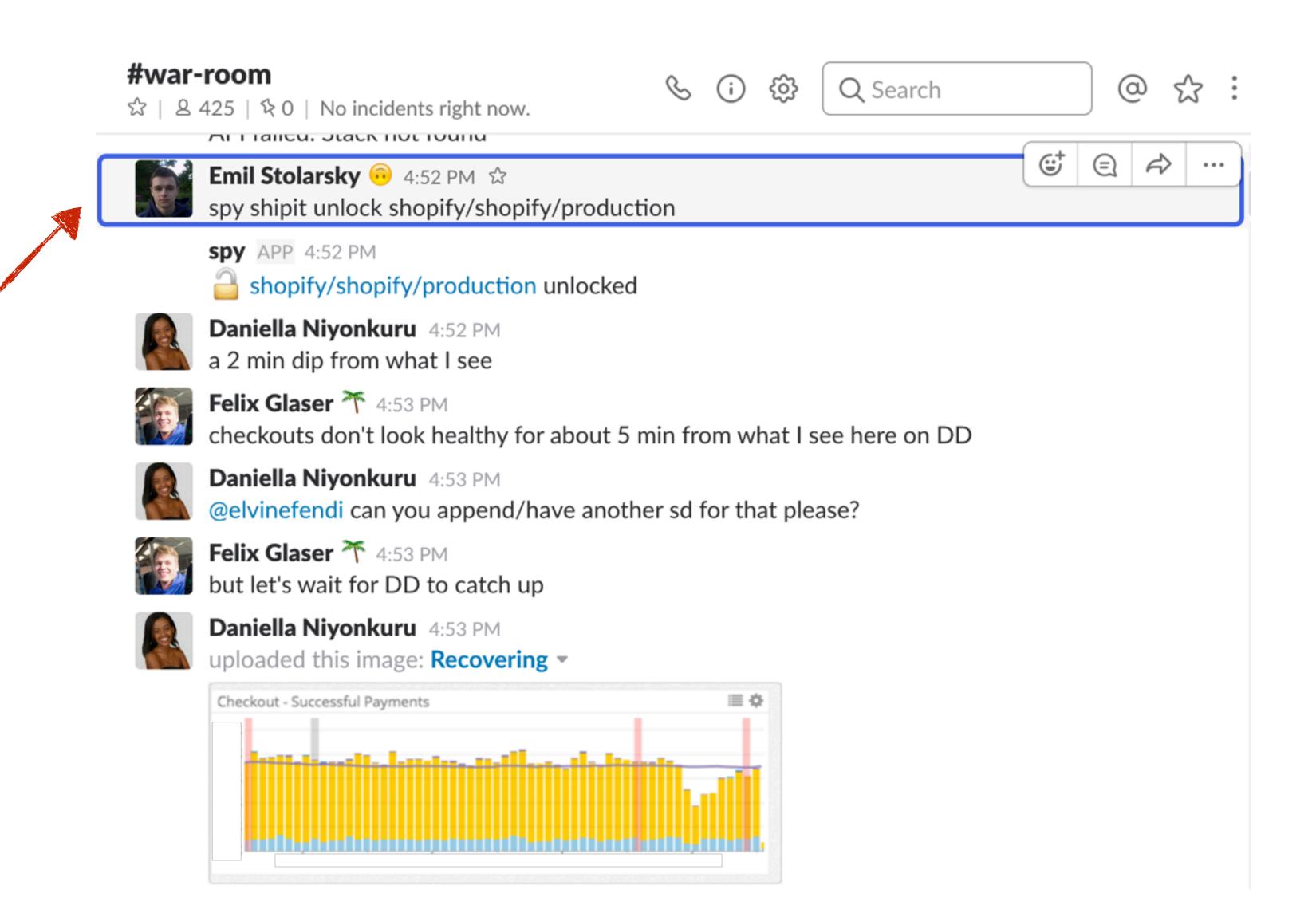
→ spy page datastores

shy-daniella BOT 10:26 AM

ohshit and social?



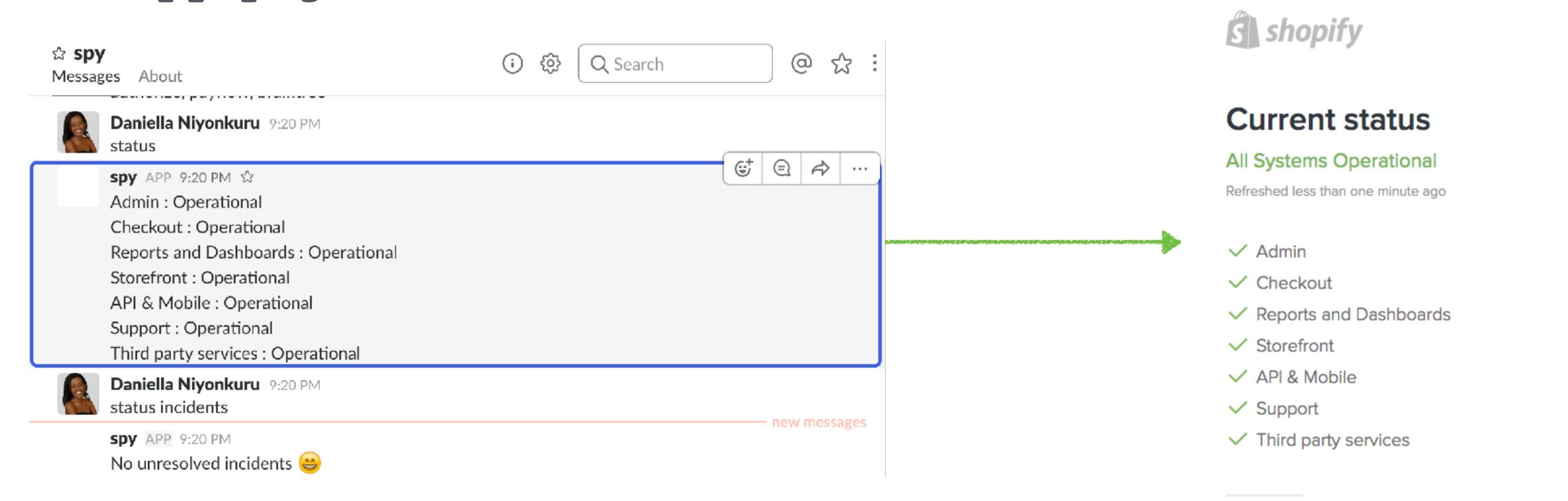
Actions



Third-Party Services

C https://status.shopify.com

- → spy status
- ⇒ spy status :provider :status for :feature
- ⇒ spy pager imoc res 123



Reminders

```
when: [30, stop]
command: :check_status_page
when: 120
command: :notify_support_atc
message: 'Spy has notified the Support Response Manager (SRM) on your behalf.'
when: 120
command: :srm_fill_out_doc
when: 300
message: 'You should coordinate external comms with the support incident responder.'
when: 600
command: :srm_checking_in
when: [3600]
command: :notify_imoc_team
when: stop
message: 'Please create a Service Disruptions report.'
```

Stop incident

→ spy incident stop

#war-room 없 | 요 409 | ६ 1 | No incidents right now. Daniella Niyonkuru 4:54 PM spy incident stop spy APP 4:54 PM ✓ Incident stopped at 2017-02-23 21:54:59 UTC. Thanks for letting us know. **Status Page Summary** *** Components Report *** Admin: operational Checkout: operational Reports and Dashboards: operational Storefront: operational API & Mobile : operational Support : operational Third party services: operational *** Unresolved Incidents Report *** No reported unresolved incidents. spy APP 4:55 PM cleared the channel topic

And much more

- SD content generation (`spy incident note`)
- Preventing on-call fatigue (`spy incident handoff`)
- Reducing context switching (`spy pager stfu`)
- Reminders (before, during and after the incident)



shopify

Benefits

- Increased sharing and focus
- Shortened feedback loop
- Eliminated manual toil
- Smoother incident handling
- Faster onboarding experience

Fears, What if ...





- Flexible and powerful
- A very important member of our team
- Enables us to really lead an incident response
- Reduce incident impact and duration



Shopify Talks

Thursday

5:00 pm to 6:00 pm: Six Ways a Culture of Communication Strengthens Your Team's Resiliency (Lightning Talk) - Jaime Woo

Friday

11:30 am to 12:00 pm: Building an On-Premise Kubernetes Cluster For a Large Web Application - Daniel Turner

Check out our blog at engineering.shopify.com Follow us on Twitter at @shopifyeng