Incident Management For Data People







An unplanned interruption to a service or a reduction in quality of a service.

ITIL 4, 2019

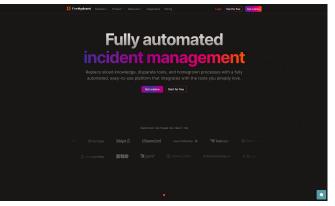




Your users You











ATLASSIAN







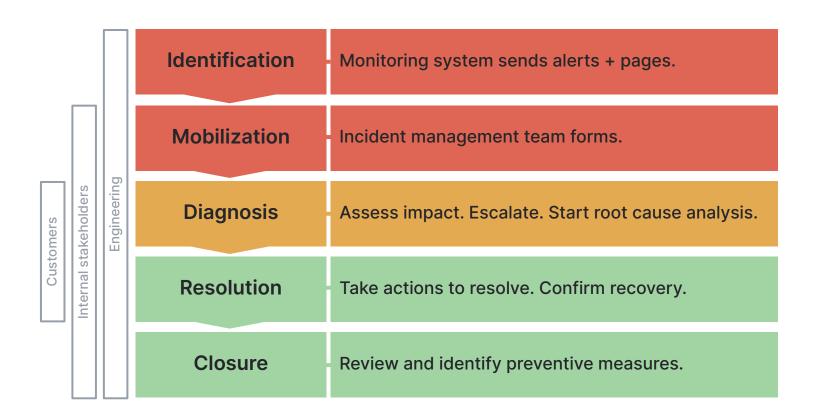




A Leader in Incident Management

White 2022 award winner in eight categories including Best Possible, Most Implementable, and

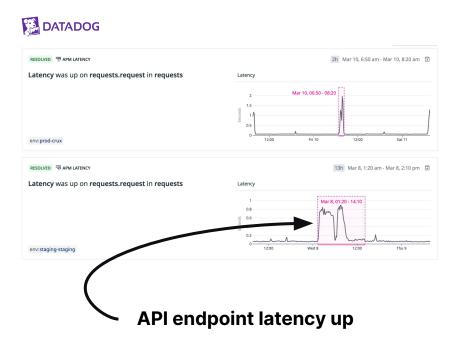




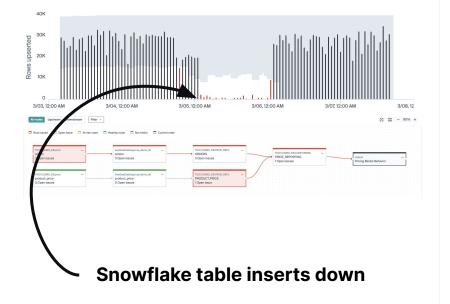


Identification

Monitoring system sends alerts + pages.









Mobilization

Incident management team forms.

		Decide	Document	Communicate	Resolve
•	Commander Staff Data Eng	✓	×	×	×
•	Scribe Data Scientist	×	✓	×	×
9 -	Liaison Data Eng. Mgr.	×	×	✓	×
	SME Analytics Eng. Data Eng.	×	×	×	✓



Diagnosis

Assess impact. Escalate. Start root cause analysis.

	Service degradation	Impact to users	
SEV 1	Unavailable	Most users affected	
SEV 2	Significant problems	Many users affected	
SEV 3	Performance problems	Some users affected	
SEV 4	Performance problems	None	
SEV 5	Low level annoyances	None	



Resolution

Take actions to resolve. Confirm recovery.



Scribe **Data Scientist**

- Start a Google Doc
- Share into Slack channel



Liaison Data Eng. Manager

- Email senior leadership
- Slack data science teams
- Update public status page



Commander Staff Data Engineer

- Assign roles to team members
- Escalate to SEV2
- Prepare for hand-off at 8PM



Subject Matter Expert Analytics Engineer

- Trace lineage in Bigeye
- Review recent DBT commit
- Roll back commit in Github



Subject Matter Expert Data Engineer

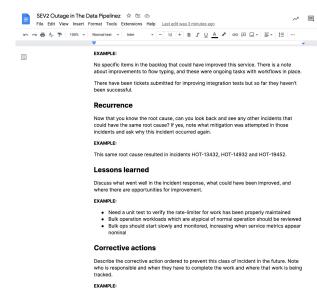
- Check out Snowflake logs
- Look at S3 buckets
- Restart Airflow





Closure

Review and identify preventive measures.



Manual auto-scaling rate limit put in place temporarily to limit failures
 Unit test and re-introduction of job rate limiting

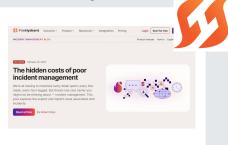
cluster to guide scaling effects

3. Introduction of a secondary mechanism to collect distributed rate information across





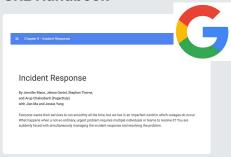
The Hidden Costs of Poor Incident Management



Incident Management Guide



SRE Handbook



Incident Handbooks



Thanks!





Kyle Kirwan kyle@bigeye.com



