

Empowering SRE Teams & Incident Management with AI

Transforming Chaos into "some" Control with GenAl

Being On-Call is Stressful & Exhausting

- Being on-call disrupts sleep, mental focus, and productivity
- Incidents lead to high-stress levels and kill innovation
- Incidents need multitasking



A High-Stakes Challenge

- You have to find the problem while communicating updates.
- Give updates to multiple teams and customer with timely and accurate information.
- War rooms are chaotic with logs, graphs, and endless threads.

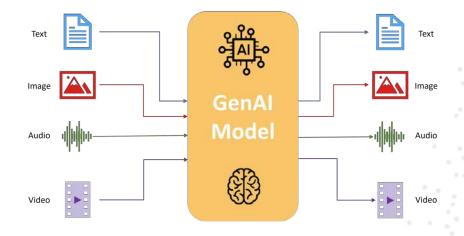




GenAl capabilities

GenAI: More Than Just Text Analysis

- Multimodal Capabilities: Al can analyze text, logs, graphs, images, and more.
- Contextual Understanding: By integrating various data types, GenAl provides context-aware insights, offering a broader understanding of situations.







A real Incident

High Database CPU > 90%-Paged at 2:00 AM

Me: It's 00:40 AM, and the first thought is, "Is this real? Is something going to break?"

Wife: And I'm over here wondering, 'What's going to crash first: the servers or you?'

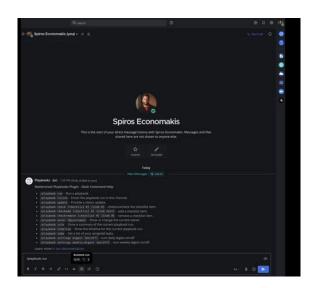




Incident response

Incident Response Playbook

- Start the predefined incident response playbook
- Automatically creates a dedicated channel as a "war room" to centralize communication and updates.





Identification with AI

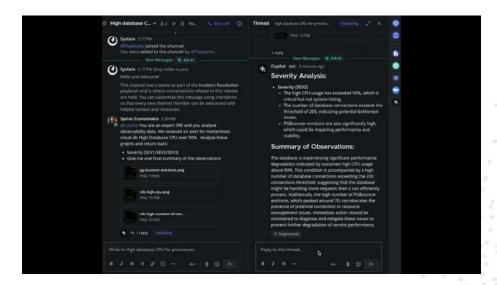
 Identify the severity based on the data we gathered from observability graphs





Internal status updates with AI

- Identify the severity based on the data we gathered from observability graphs
- Internal status update





External status updates with AI

- Identify the severity based on the data we gathered from observability graphs
- Internal status update
- Customer facing status update

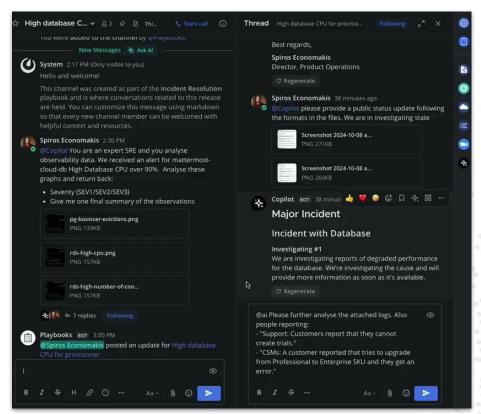




Investigate further with AI

Contextual analysis:

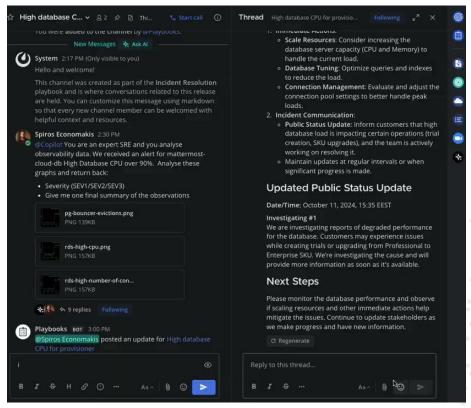
- With extra input from service logs
- With extra input by teams





Post-incident with AI

- Generate a post-mortem and a timeline of events and evidences.
- Suggests action items to prevent the issue in the future
- Capturing metrics which can be used for insights



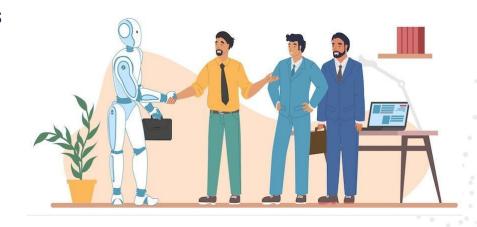




Al isn't perfect yet

Al Isn't Perfect, But It's Improving

- Not an artificial SRE—Al automates repetitive tasks during stressful incidents.
- Al can give key insights fast, so you focus on fixing problems.
- Spend more time improving, less time managing.



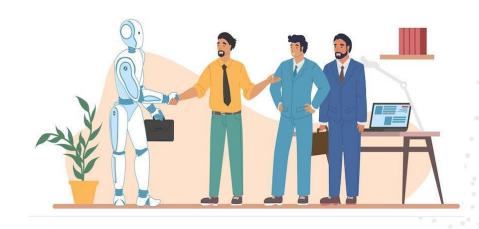




Key takeaways

Takeaways

- Al helps understand the problems faster by giving you key insights right away.
- Al reduces stress by decreasing multitasking with automating updates and summaries.
- You spend less time managing the incident and more time fixing it.







Thanks & follow

- **%@spirosoik**
- in linkedin.com/in/spirosoik