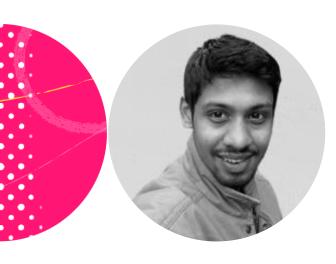
# Troubleshooting Spinnaker



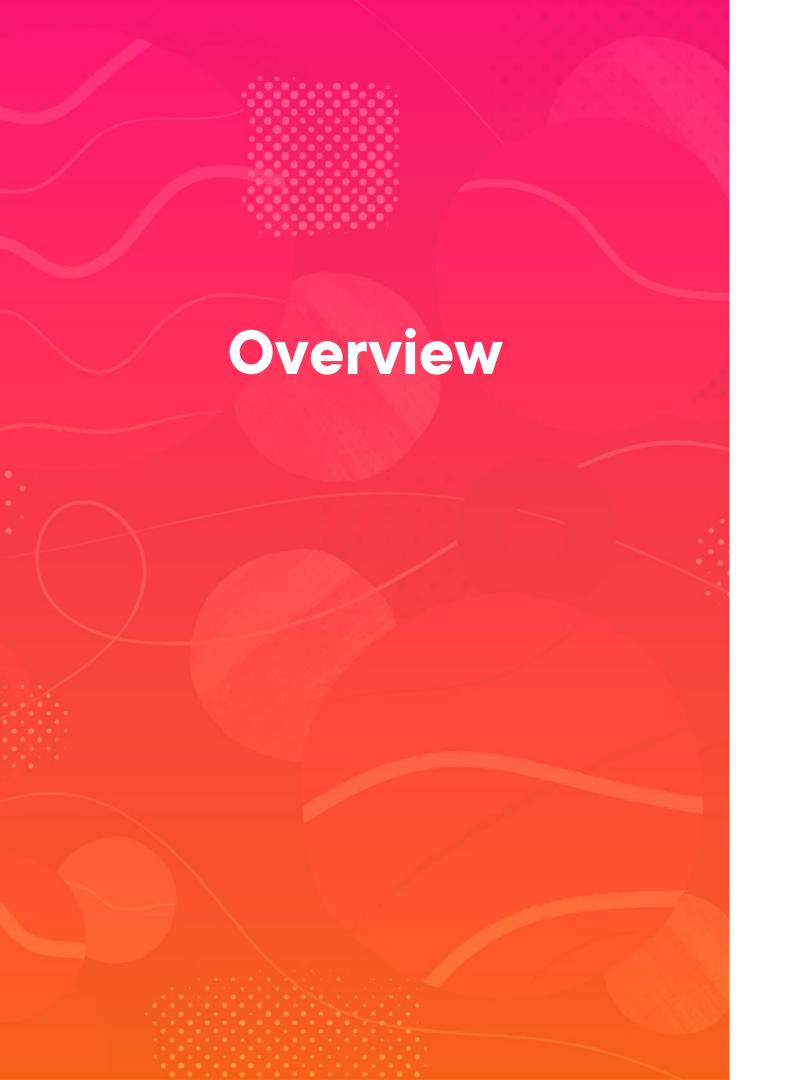
### **Shubhasish Panda**

Infra & Platform Engineer

@linkedin | www.linkedin.com/in/subhasishpanda







### Discuss general troubleshooting steps

### Setup a logging platform

- Configure log levels
- Collect audit logs

### Setup a monitoring platform

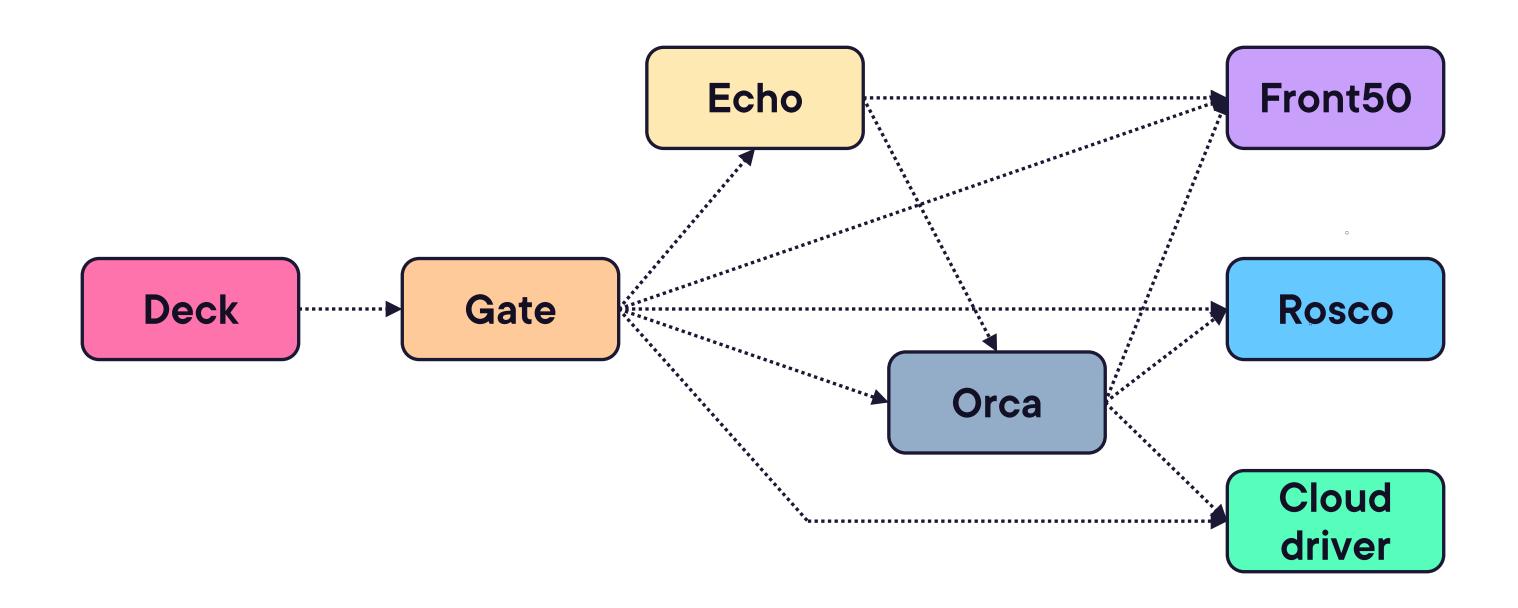
- Install Prometheus & Grafana
- Expose application metrics
- Configure alerts

Able to troubleshoot Spinnaker

# **General Troubleshooting**



# Spinnaker Microservices





## **Steps to Troubleshoot**

Check the browser's developer console

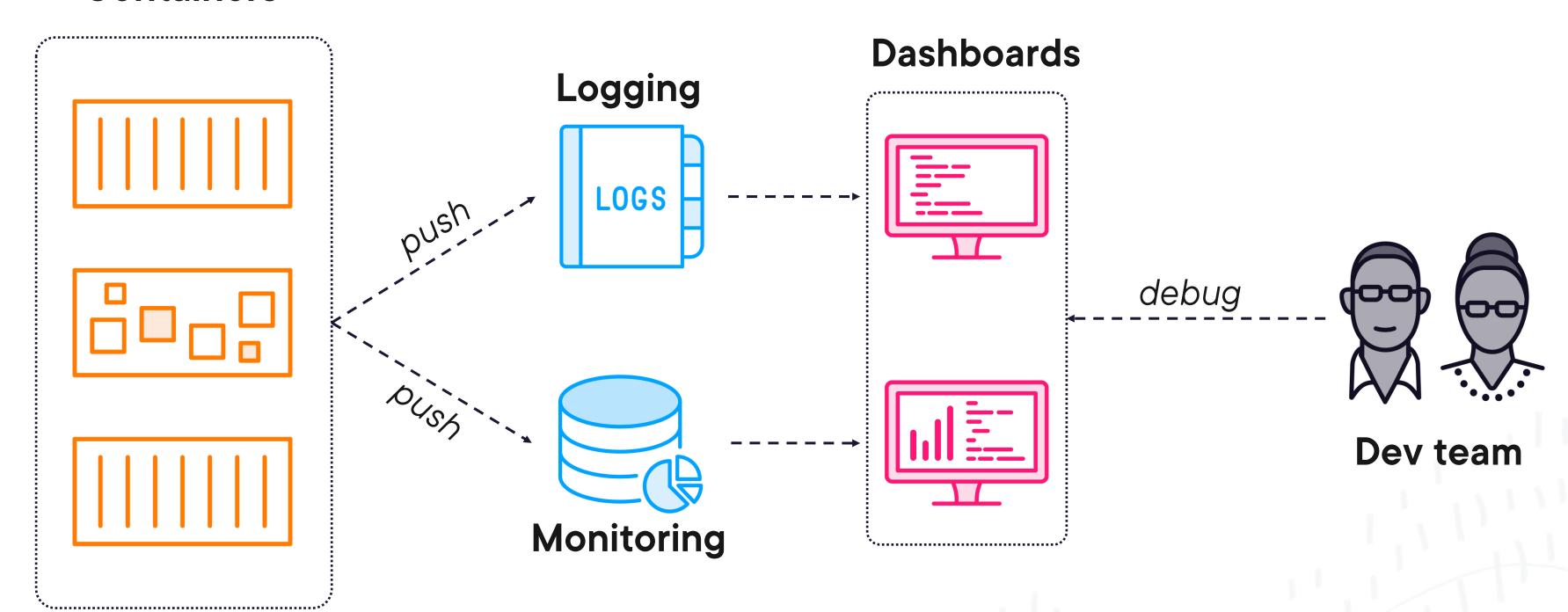
Find out the failing API and map it

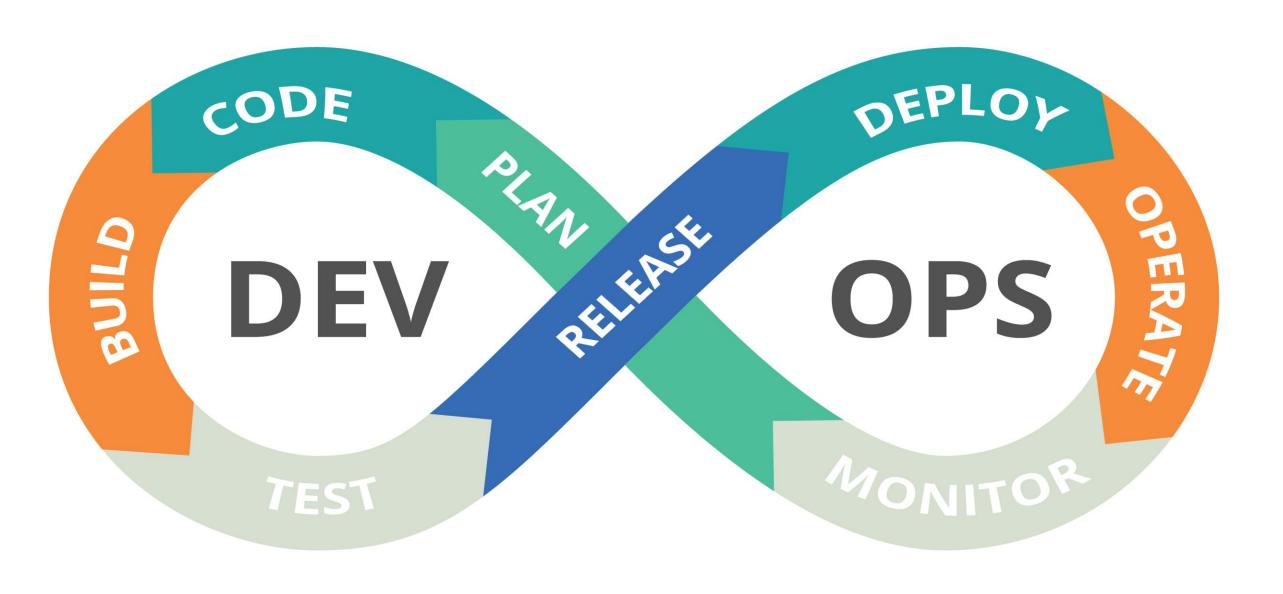
Check the application logs



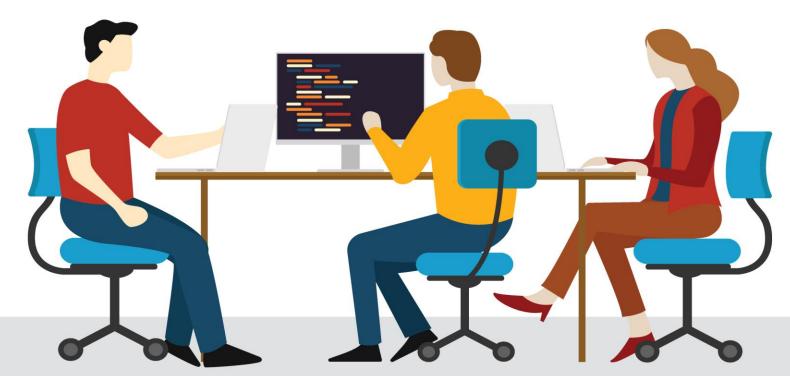
Port Number	Microservice
Deck	9000
Clouddriver	7002
Echo	8089
Front50	8080
Gate	8084
lgor	8088
Orca	8083
Rosco	8087
Rush	8085

### **Containers**



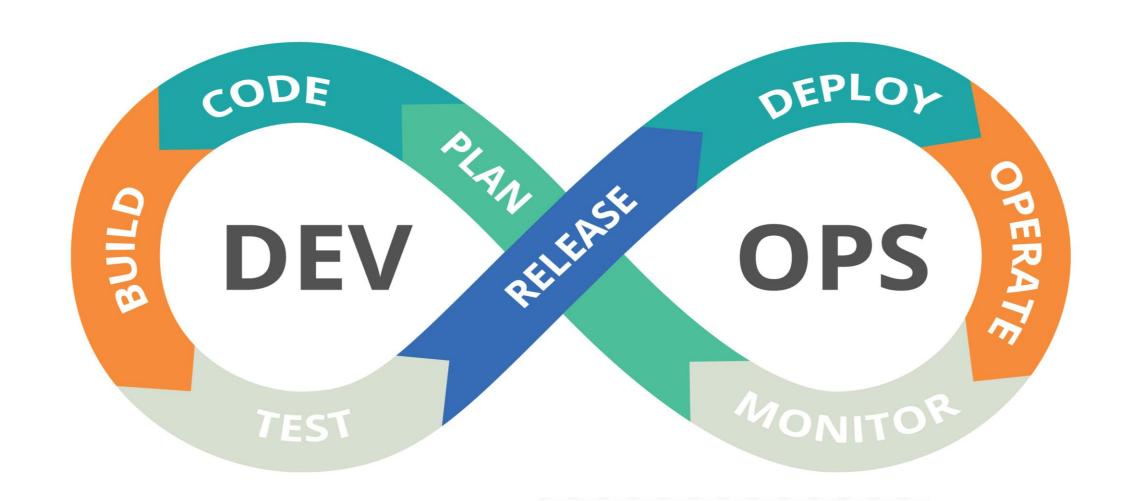








Essential for operating software in production





# Logging





# **Application Logging**

Is a process of collecting general, events, & audit logs
Is critical in running application production.



# **Application Logging**

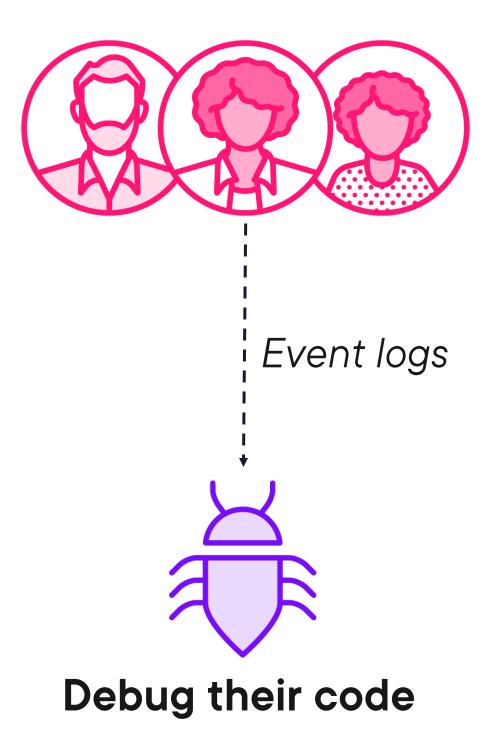


Is a process of collecting general, events, & audit logs

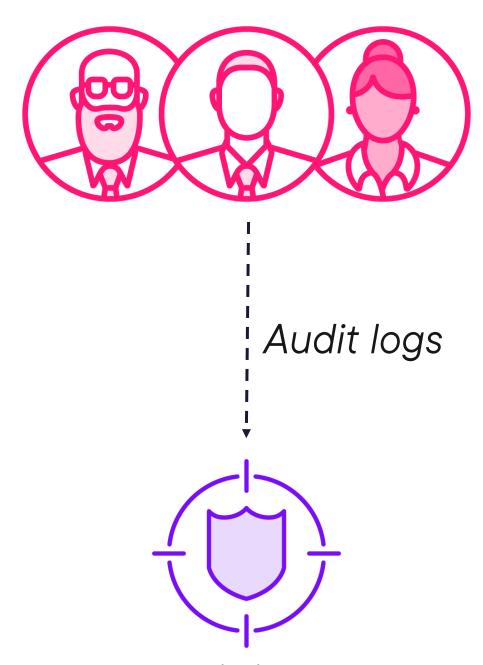
Is critical in running application production



### Developers

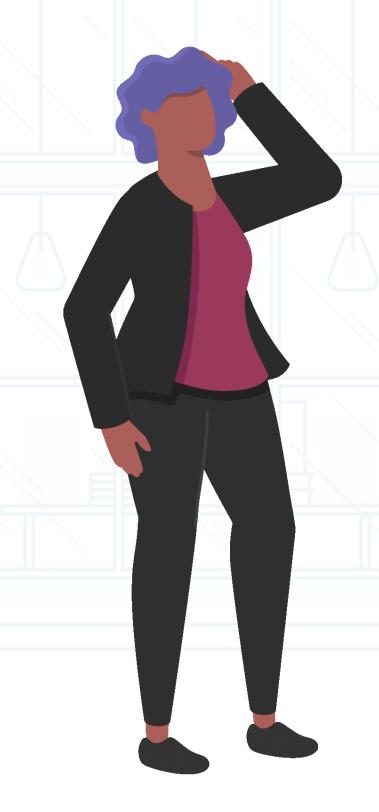


### System admins



**Detect malicious attacks** 

# Log Management Steps



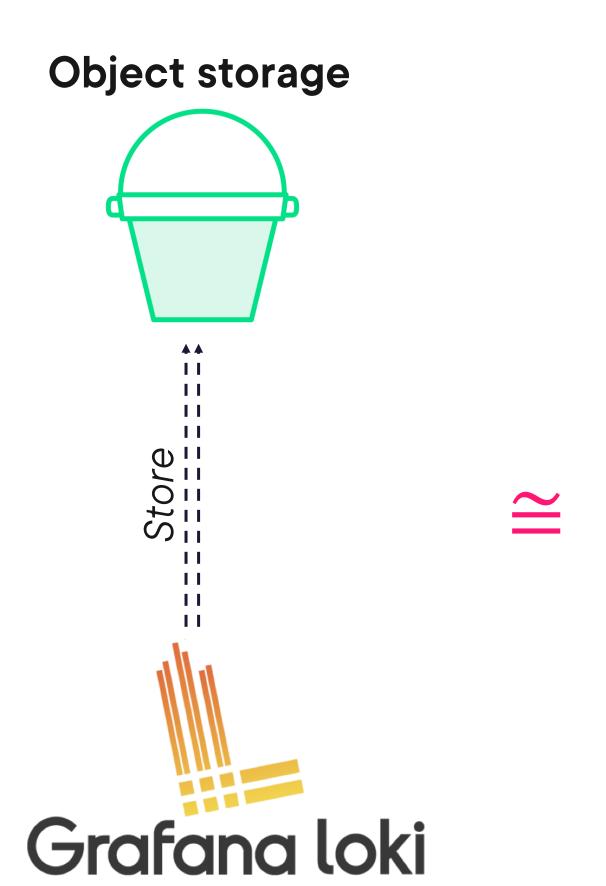
Setting up logging tool

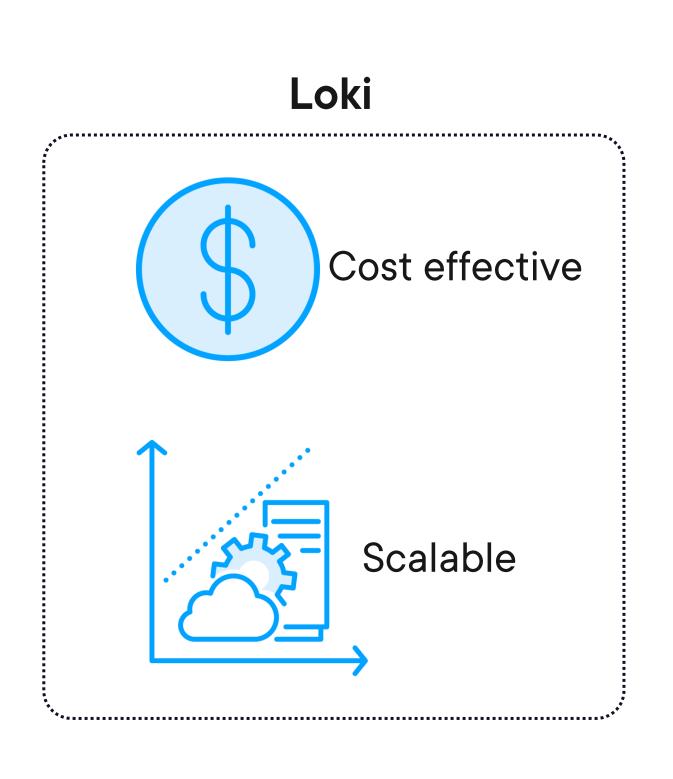
**Enabling application logs** 

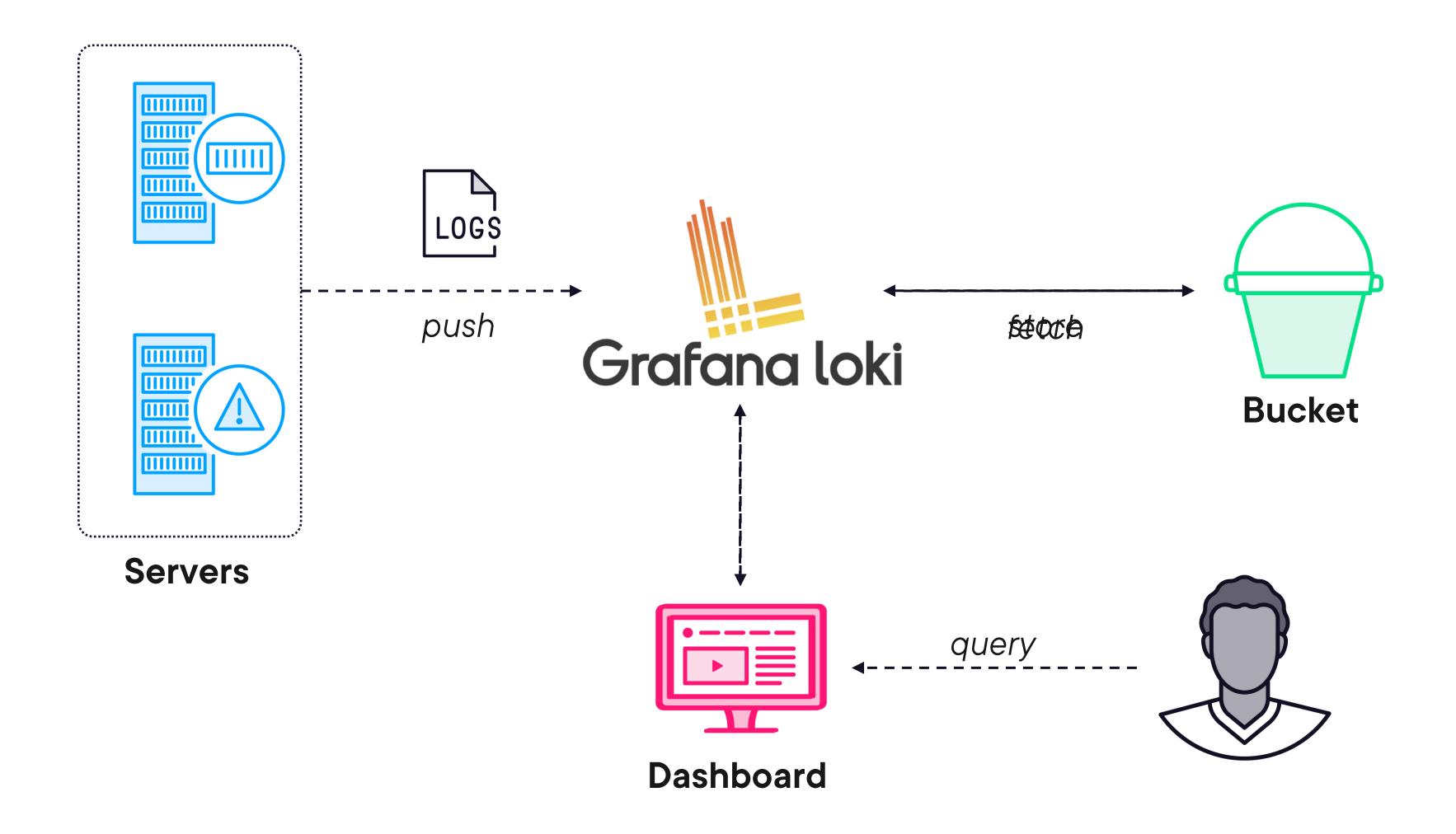
Collecting logs centrally

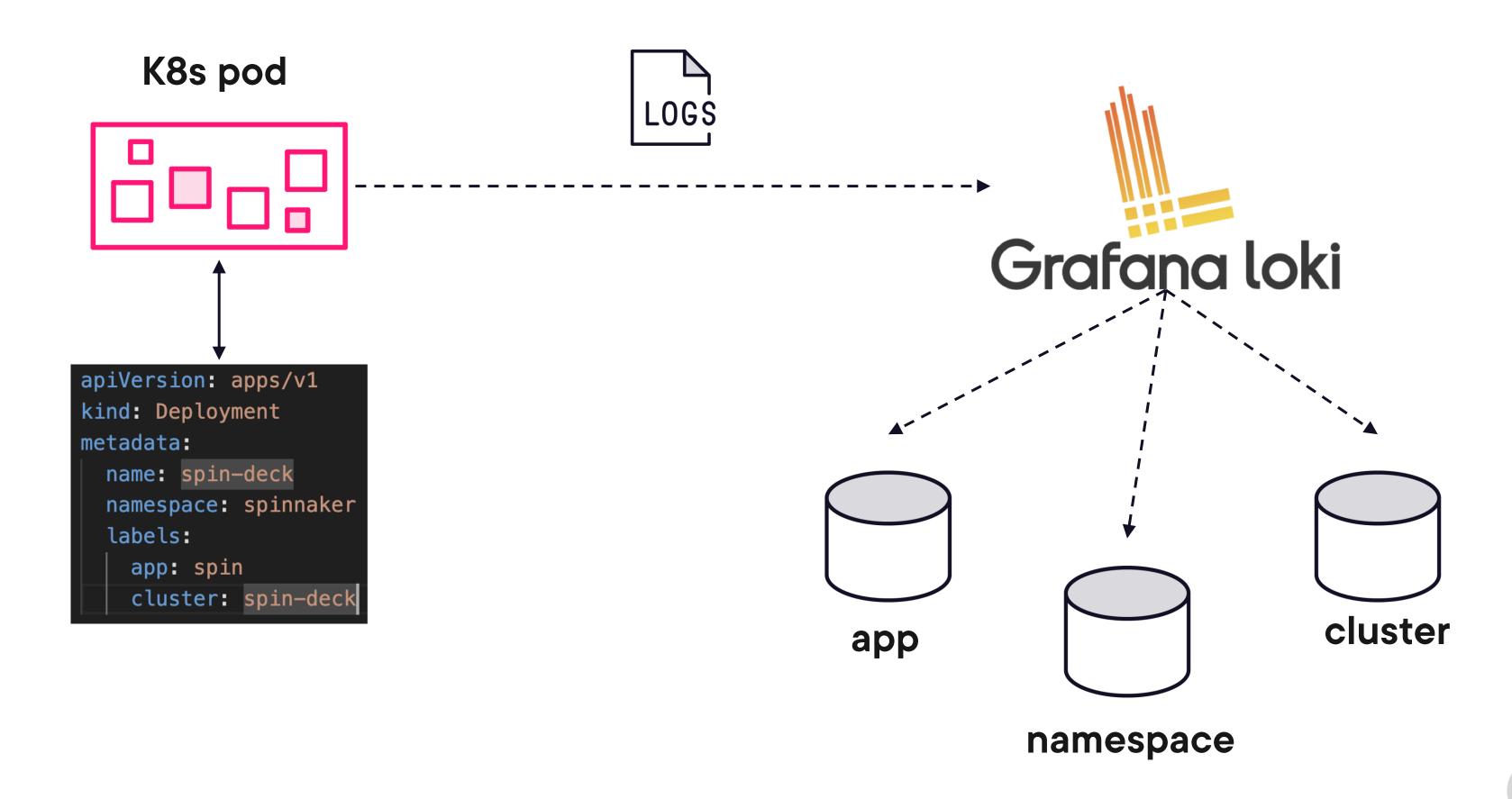
Securing & scaling log platform









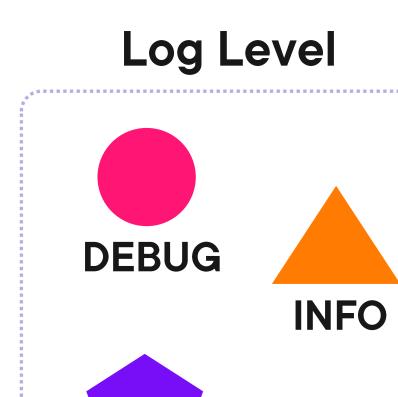




## Install & configure Loki

- Use AWS s3

### Not recommended



**ERROR** 

**WARN** 

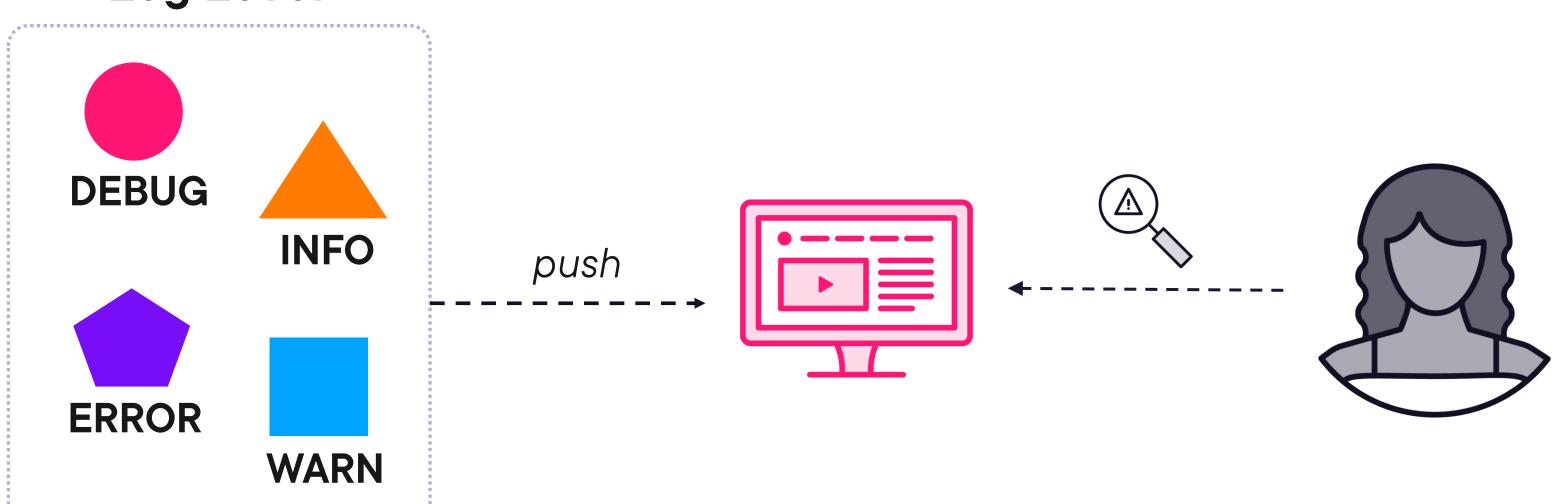




### Increased

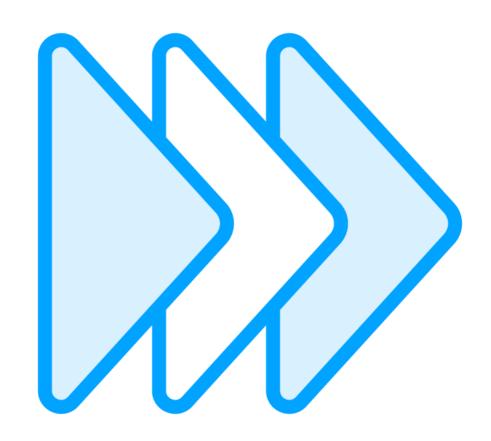


### Log Level



Change the log level of gate & echo service

# **Advanced Logging Settings**



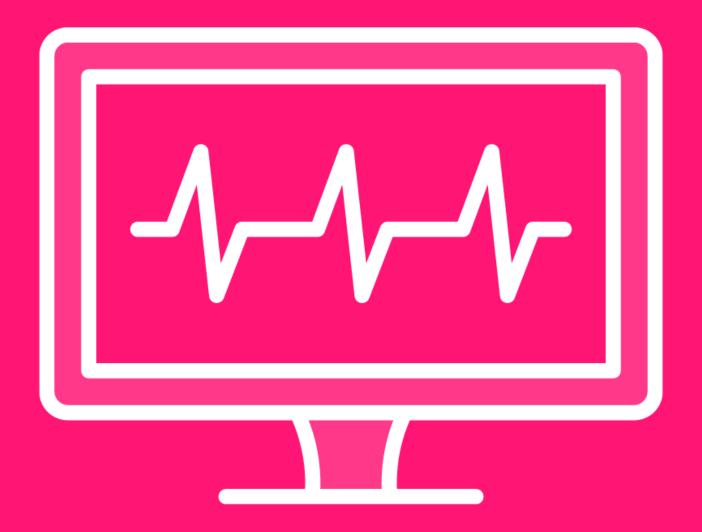
### **Enables:**

- JSON formatting
- Log level per java class
- Log keys filter
- Use "logback.xml" file

Enable & push audit logs

# Monitoring



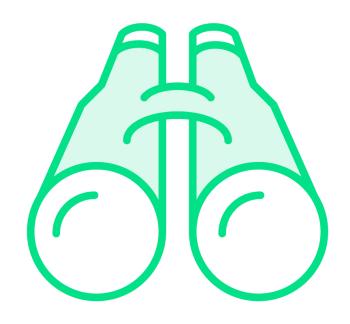


# **Application Monitoring**

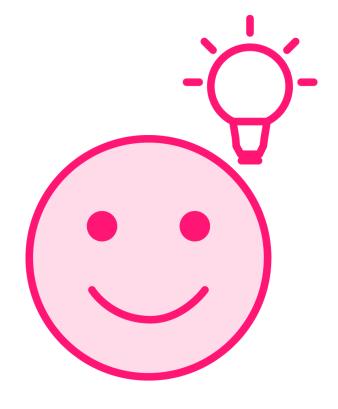
Process of collecting performance, availability, & usage data and using that data to improve customer's experience



## Why Monitor?



To observe performance & health



To take data driven decision



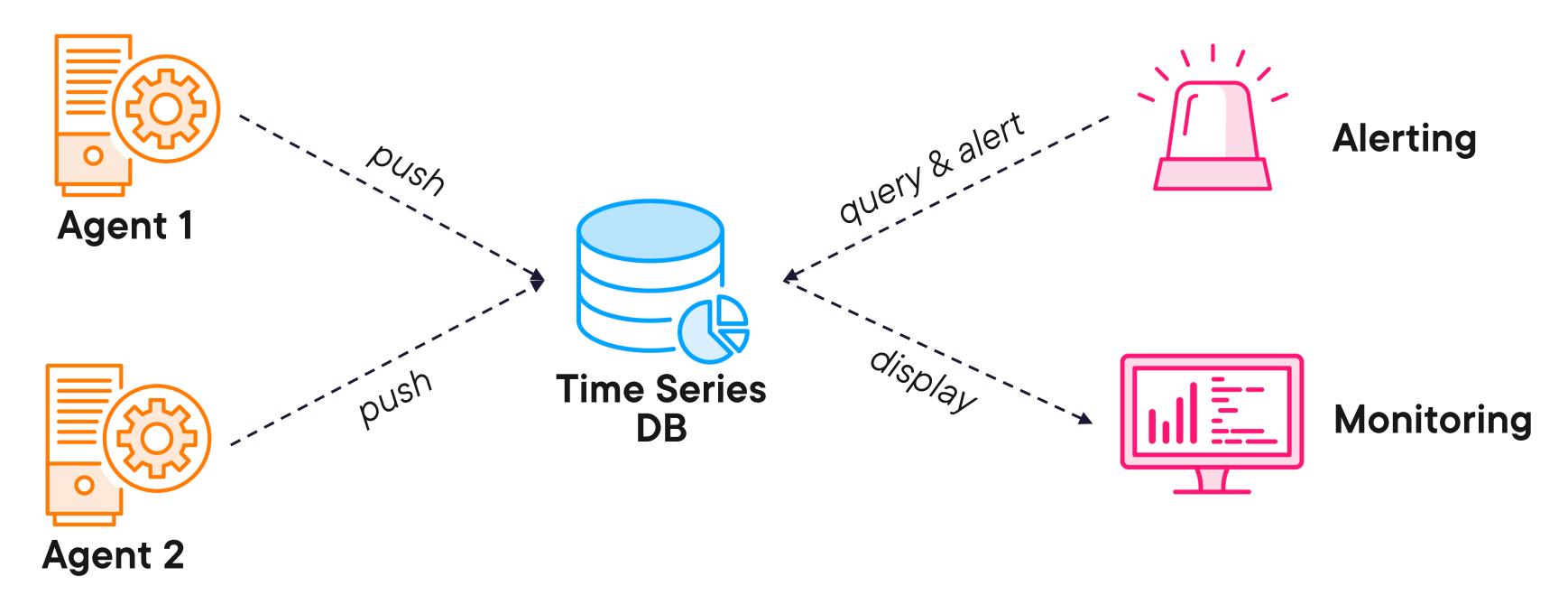
To detect anomaly beforehand



To troubleshoot an incident faster



# **Monitoring System**

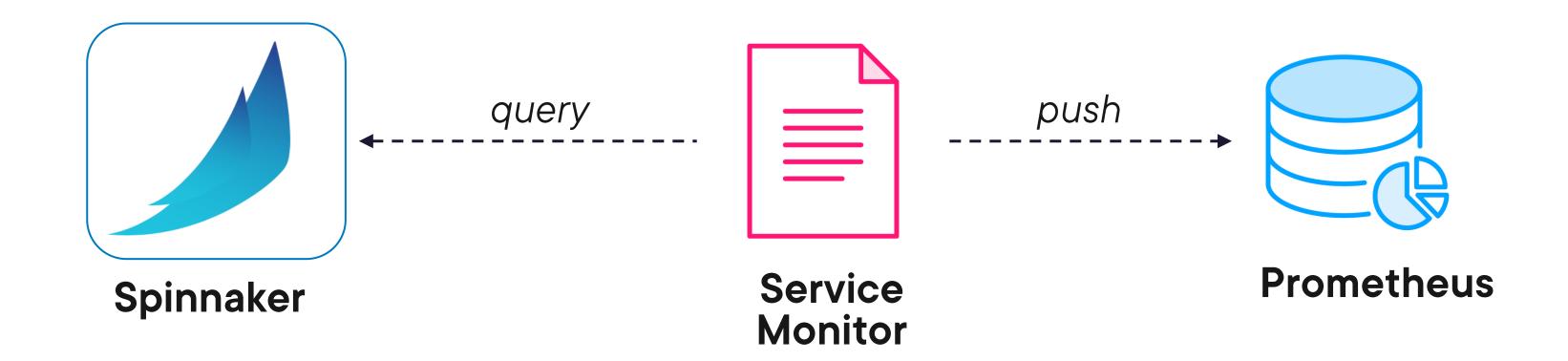




Install prom-stack

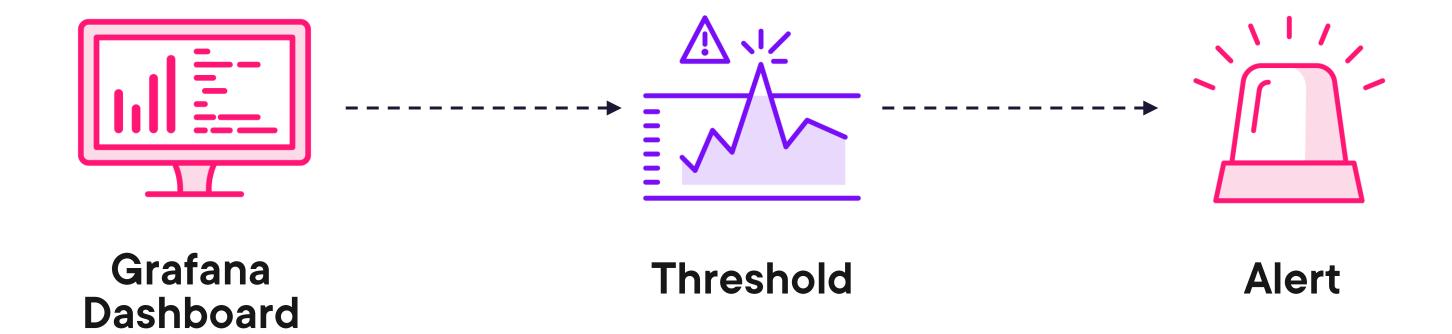
Add Spinnaker's infra & application metrics dashboard to Grafana

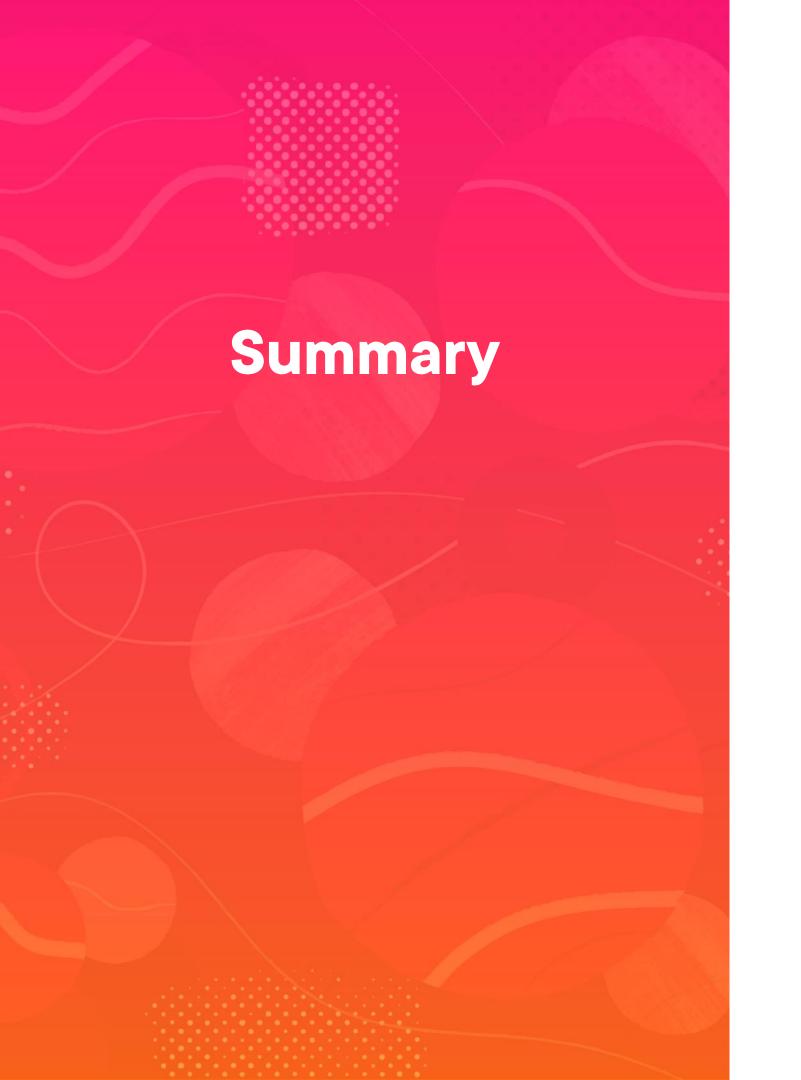
# **Application Metrics**



**Configure alerts** 

# **Alerting System**





Explore other monitoring & logging tools
Skills to troubleshoot Spinnaker
Setup logging & monitoring platform
Setup alerts