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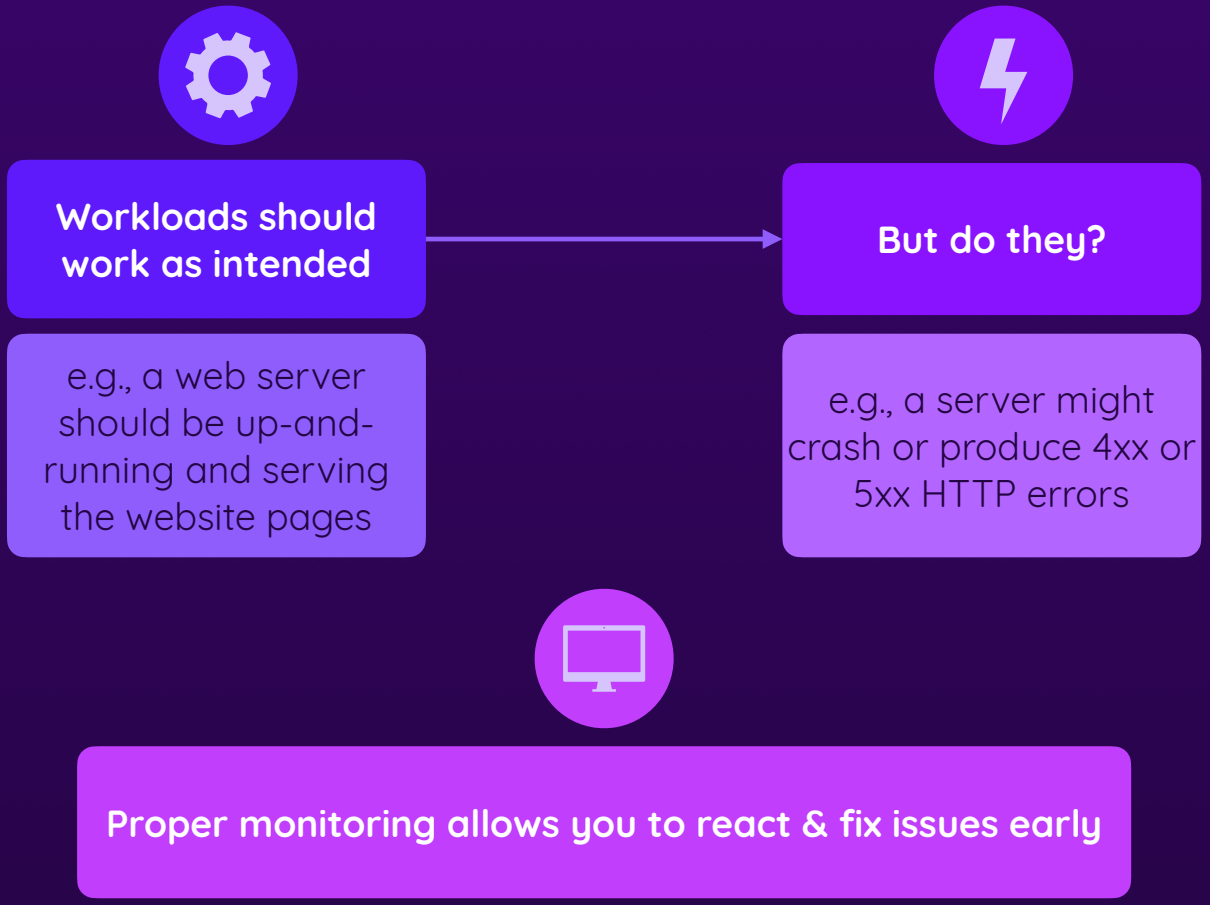
Monitoring

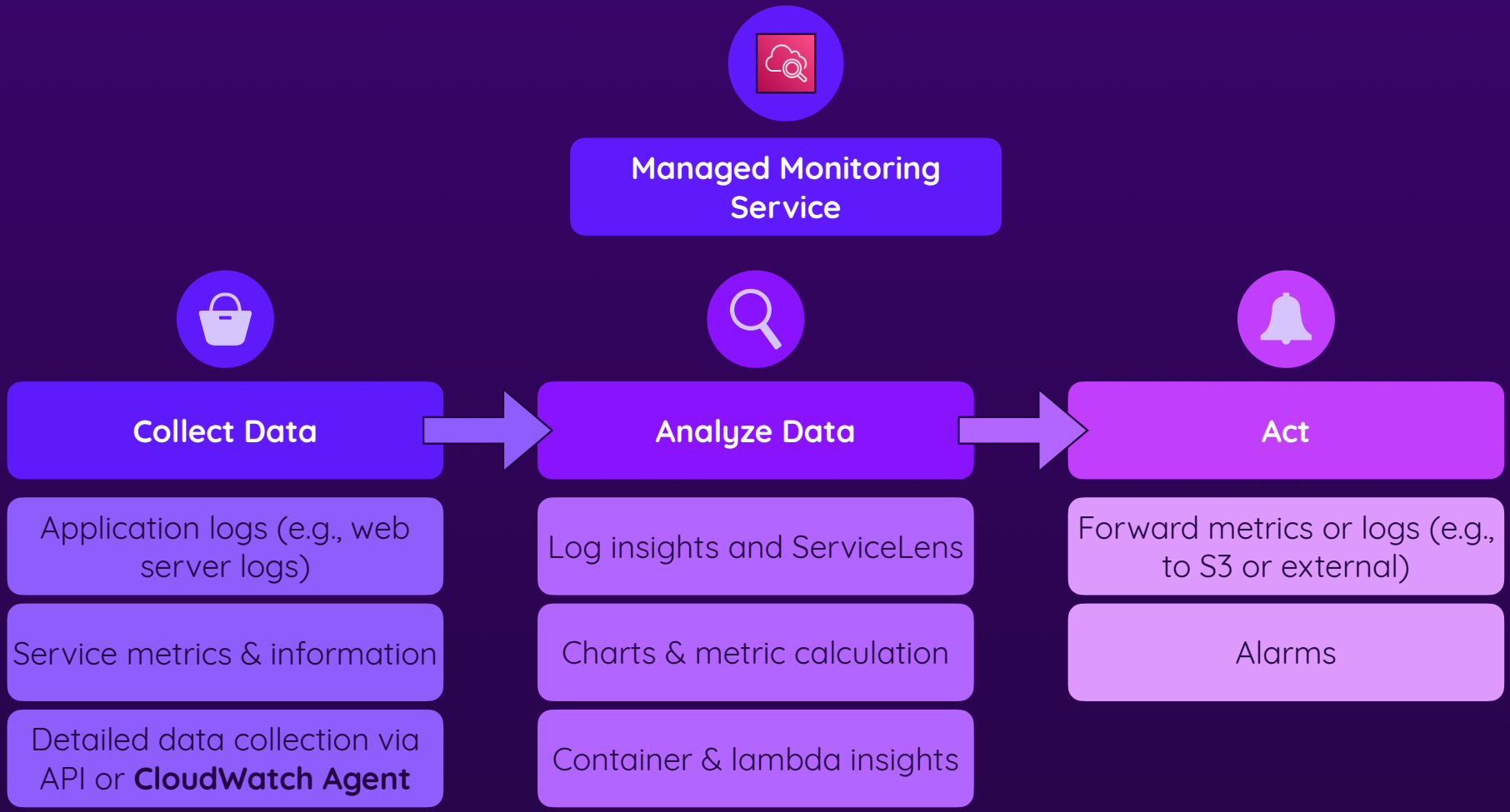
Keeping track of your services & applications

- Monitoring Goals & Requirements
- Understanding CloudWatch & More

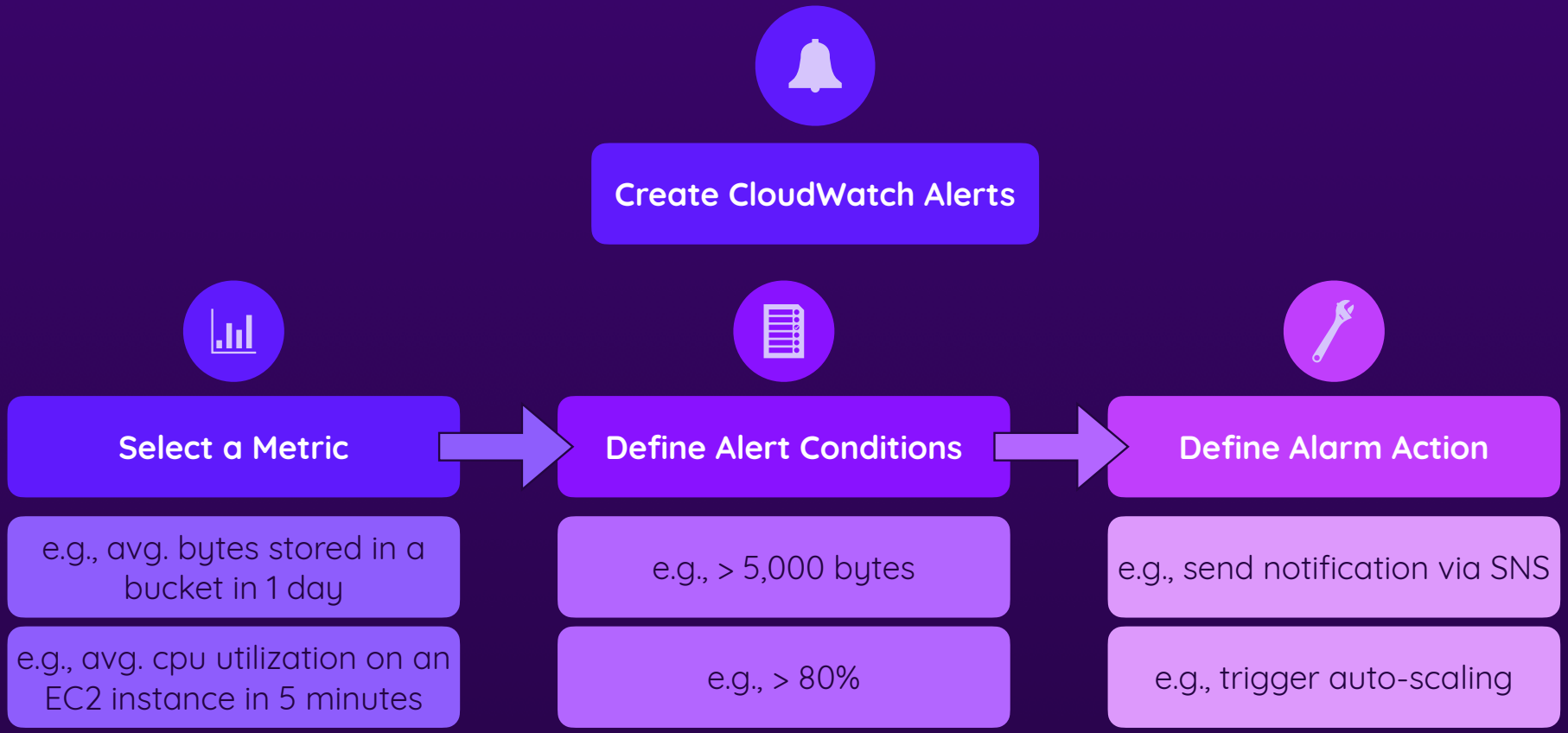
Monitoring: What & Why?



Monitoring with CloudWatch



Get Alerted


Create CloudWatch Alerts
Select a Metric
e.g., avg. bytes stored in a bucket in 1 day
e.g., avg. cpu utilization on an EC2 instance in 5 minutes
Define Alert Conditions
e.g., > 5,000 bytes
e.g., > 80%
Define Alarm Action
e.g., send notification via SNS
e.g., trigger auto-scaling

Cross-Service Insights With XRay

In-app Request Flow Tracing

Prepare Apps For Tracing

- Install daemon service in app environment
- Save tracing events (e.g., handled requests, failures)
- Daemon sends tracing event batches to AWS

Analyze Traces

- View traffic flow across applications or services
- Combine with other monitoring tools

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Summary

Monitoring: What & Why?	CloudWatch	Monitoring Other Services
Services & workflows might not always work as intended	CloudWatch is AWS's key monitoring service	Default metrics or logs are collected by most services
You want to detect & solve problems as early as possible	It collects data (logs, metrics) from other AWS services	Extra logging (paid) can be turned on for many services
Monitoring allows you to gain insights & solve problems	You can create dashboards, chart metrics & perform analyses	CloudWatch Agent or XRay daemon offer more details
Alerts make sure that you get notified about issues early	XRay & other advanced monitoring features are offered	