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AWS CLOUD WATCH

"It is an AWS monitoring & observability service that lets you collect, monitor, visualize and act on metrics, logs and events from AWS resources and applications."

→ What Cloud Watch Monitors

↳ Cloud watch works across infra, applications & services

① Infrastructure
- EC2 CPU, memory, disk, network
- RDS CPU, storage & connection

② Applications
- Custom Application metrics
- Application logs
- Error rates & response time

③ Services
- Auto Scaling • Lambda • ECS / EKS • S3 ...

→ Core Components Of Cloud Watch

① Metrics

↳ Time based numerical data

↳ Ex: CPU utilization, request count ....

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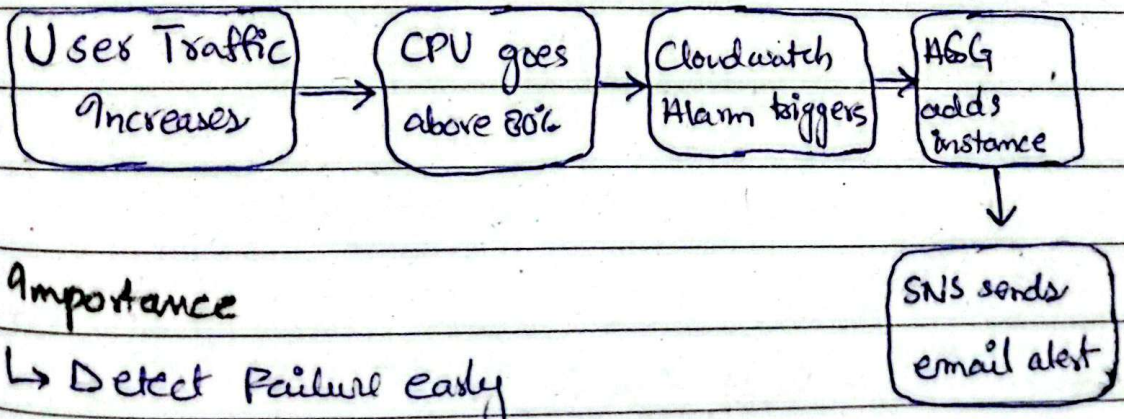
② Logs
↳ Centralized log storage
↳ Sources: EC2, Lambda, VPC Flow Logs

③ Alarms
↳ Triggers actions when threshold are breached
↳ Ex: CPU utilization > 80% → send SMS alert

④ Dashboards
↳ Visualize metrics in realtime
↳ Custom charts & graphs

⑤ Event
↳ React to AWS changes
↳ Ex: EC2 stopped → Trigger Lambda → Notify Team

• EXAMPLE:



• Importance
↳ Detect Failure early
↳ Improve Performance
↳ Enable ASG
↳ Realtime Monitoring
↳ Centralized logging

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Cloud Watch	Trusted Advisor
① Monitoring	① Recommendations
② Real time	② Periodic
③ Metrics & logs	③ Best Practices.
④ Alerts	④ No Alerts