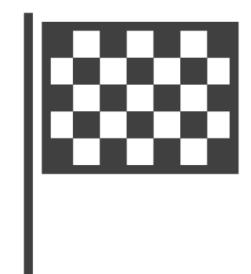
Monitoring DynamoDB Tables with CloudWatch



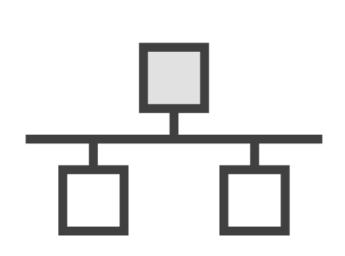
Stefan Roman DEVOPS ENGINEER www.katapult.cloud



Monitoring Goals:

- Performance
- Availability





Resources to monitor:

- Environments
- Specific tables
- Temporary dev monitors





Tools to use:

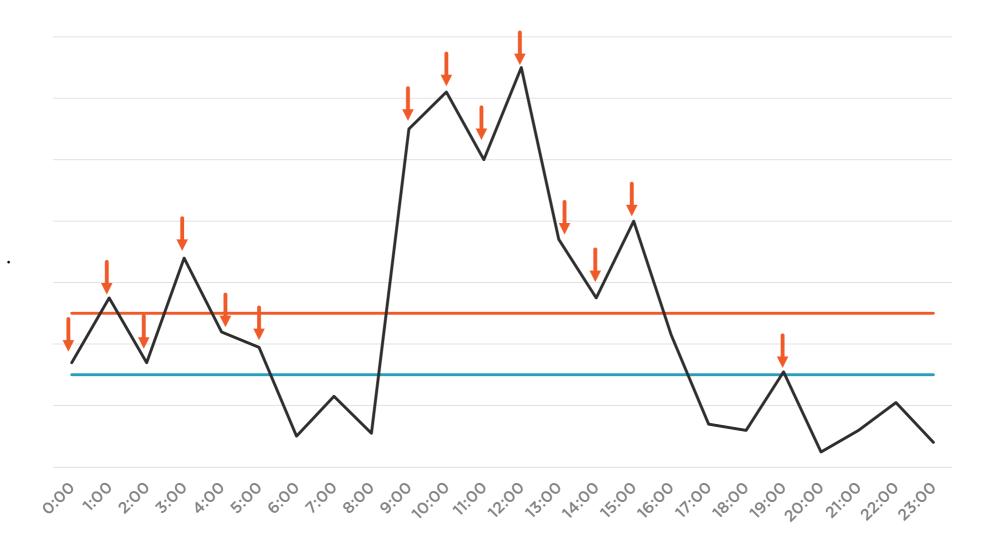
- Active monitoring
- Passive monitoring



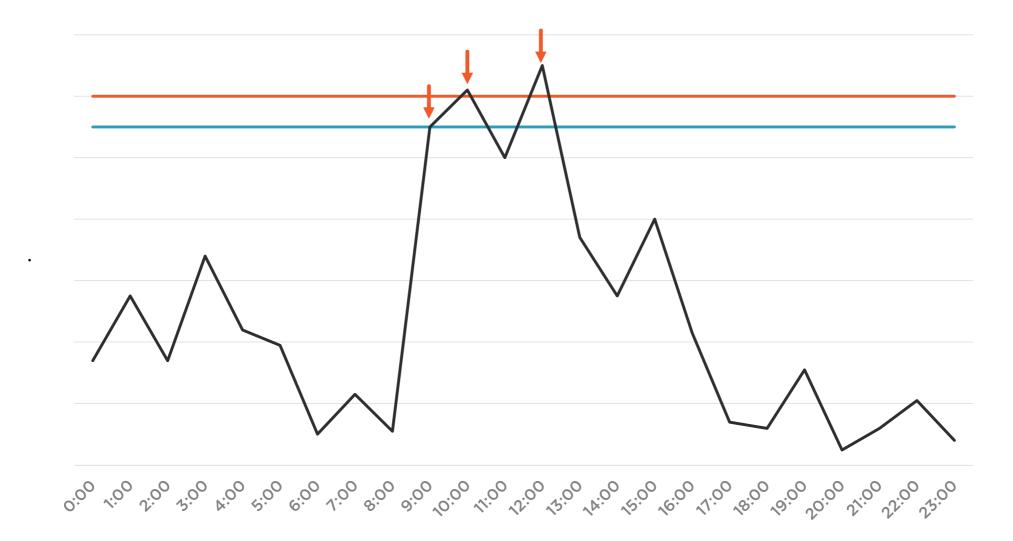
People responsible:

- Who will be contacted

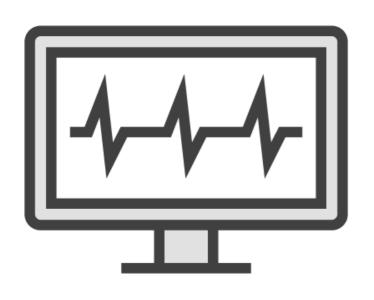








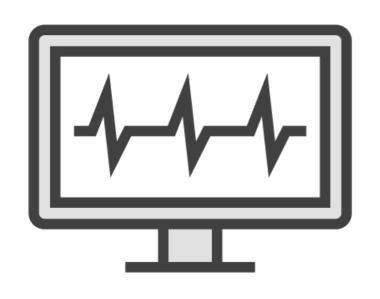




Capacity Monitoring:

ConsumedReadCapacityUnits
ConsumedWriteCapacityUnits

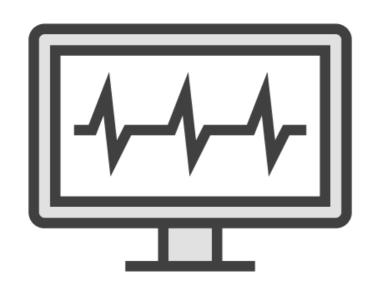




Throttling Monitoring:

WriteThrottleEvents
ReadThrottleEvents
ThrottledRequests

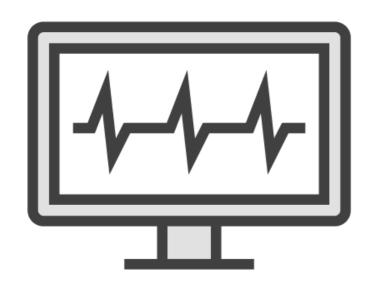




Error Monitoring:

UserErrors SystemErrors





Other relevant metrics:

PendingReplicationCount

ReplicationLatency

SuccessfulRequestLatency

TimeToLiveDeletedItemCount



Active Monitoring of DynamoDB Tables

CloudWatch Alarms

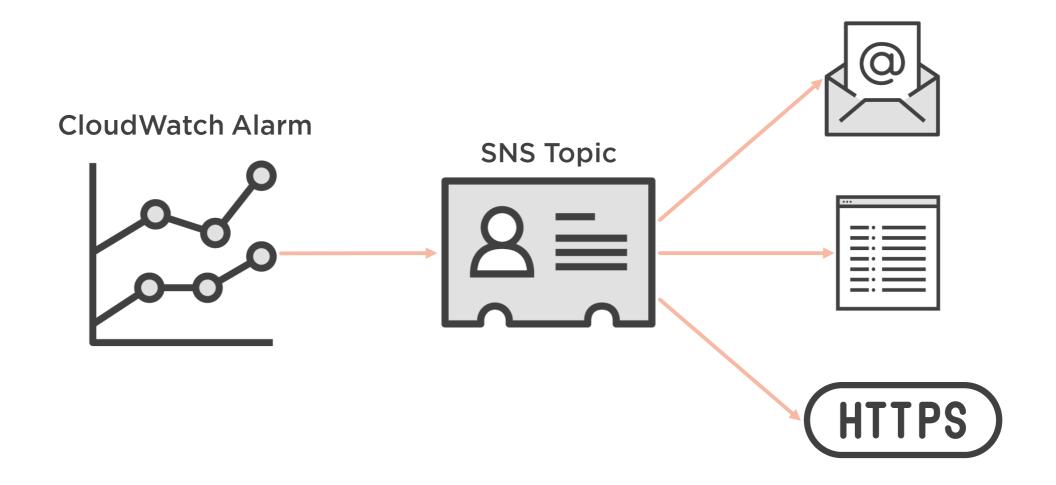
Send notifications when values are over thresholds

CloudWatch Events

Send notifications when system events occur

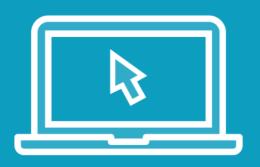


Active Monitoring of DynamoDB Tables





Demo



Create active monitoring for elaborate_employee_table

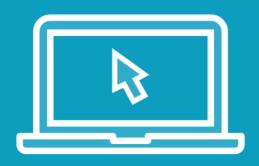
Create and configure SNS topic

Create metrics with random thresholds

Generate traffic with a script



Demo



Create SNS topic

Configure CloudWatch events

Make changes to our elaborate_employee_table

Investigate events



Passive Monitoring of DynamoDB Tables

CloudWatch Logs

Investigating past events

Metric Graphs

Observe trends or investigate past events

Metric Dashboards

Overview of metric graphs



Demo



Create passive monitoring for elaborate_employee_table

Produce read and write traffic



Summary



Monitoring concepts

Threshold settings

Specific DynamoDB metrics

Active monitoring

- CloudWatch Alarms
- CloudWatch Events

Passive monitoring

- CloudWatch Dashboard

