

AWS Monitoring

- Service Specific Events
 - AWS Budget Notification
 - Amazon RDS Event
 - Amazon ElastiCache Notification
 - Amazon Redshift Event Notifications
 - Amazon Linux AMI Security Center RSS
 - AWS Trusted Advisor Weekly Update
 - AWS Config Notifications
 - AWS Auto Scaling Notification
 - Amazon SNS Application Event Notifications
 - AWS Elastic Beanstalk Notification
 - Amazon S3 Event Notification
 - AWS CodeDeploy Events
 - AWS CodeCommit Trigger
 - AWS CloudFormation Notifications
 - Amazon DynamoDB DAX Notifications
 - Events
 - Amazon Simple Email Service (SES)
 - Amazon Elastic Transcoder Notifications
 - Amazon Glacier Vault Notifications
 - AWS Database Migration Service Events
 - AWS IP Address Ranges Notifications

- Amazon CloudWatch Events
 - Events
 - AWS Health
 - AWS CloudTrail (API Call)
 - AWS Management Console Sign-in
 - AWS Trusted Advisor
 - AWS CodePipeline
 - AWS CodeBuild
 - AWS CodeDeploy
 - AWS Auto Scaling
 - Amazon Macie
 - Amazon GuardDuty
 - Amazon Inspector
 - Amazon EC2
 - Rules
 - Parameter Store
 - Configuration Compliance
 - Maintenance Windows
 - AWS Systems Manager
 - Amazon ECS
 - AWS Batch
 - AWS Glue
 - Amazon EMR
 - AWS CodeCommit
 - Amazon EBS
 - AWS KMS
 - Targets
 - Amazon Simple Notification Service (SNS)
 - AWS Lambda
 - Amazon SQS
 - Amazon Kinesis
 - ...

- Logging
 - Amazon CloudWatch Logs
 - Ingesting log messages via agent
 - Searching log data
 - Publishing metric through metric filter
 - Subscribe to log messages
 - Archiving log data to S3
 - AWS X-Ray (Distributed Tracing)
 - Tracing requests between microservices
 - Supports Java, Go, Node.js, Python, and .NET
 - Shows a service graph
 - Capturing data about the IP traffic within VPC
 - Amazon VPC Flow Logs
 - Monitoring your network
 - Debugging your firewall configuration
 - AWS CloudTrail
 - Record an audit log of all AWS API calls
 - Compliance and Security Automation
 - Amazon Elasticsearch Service
 - Managed Elasticsearch Cluster
 - Analytics and dashboards with Kibana
 - Access Logs
 - AWS Application Load Balancer (ALB)
 - AWS Elastic Load Balancer (ELB)
 - Amazon S3
 - Amazon API Gateway
 - Amazon RDS Database Log Files
 - Store snapshots on Amazon S3
 - AWS Config
 - Amazon Redshift
 - STL Tables for Logging
 - Connection log
 - User log
 - User activity log
 - Amazon Route 53
 - Logging DNS Queries

- Monitoring Goals
 - Security
 - Logging
 - AWS CloudTrail
 - AWS Config
 - Amazon CloudWatch Events
 - AWS Trusted Advisor
 - Performance
 - Amazon CloudWatch Metrics and Alarms
 - AWS X-Ray
 - Amazon CloudWatch Metrics and Alarms
 - Amazon CloudWatch Events
 - Resilience
 - Service Specific Events
 - Logging
 - AWS Health
 - Cost Efficiency
 - AWS Budget
 - AWS Cost Explorer

- Amazon CloudWatch Metrics
 - Custom Metrics
 - Missing metrics (e.g., EC2 memory)
 - Application metrics
 - Business metrics
 - AWS Services
 - Amazon EC2
 - CPU
 - IOPS
 - Network
 - AWS Lambda
 - Errors
 - Throttles
 - Concurrent Executions
 - Invocations
 - Amazon RDS
 - CPU
 - Memory
 - Network
 - Storage
 - Replica Lag
 - AWS Application Load Balancer
 - HTTP errors
 - Healthy Host Count
 - Connections
 - Requests
 - Target Response Time
 - AWS Billing and Cost Management
 - Estimated Charges
 - ...
 - Enhanced Monitoring
 - Amazon RDS
 - Amazon EC2

- Amazon CloudWatch Alarms
 - Threshold
 - Dimensions
 - Statistic and Percentile
 - Actions
 - Amazon Simple Notification Service (SNS)
 - Recover
 - Amazon EC2
 - Stop
 - Terminate
 - AWS Auto Scaling

- Amazon Simple Notification Service (SNS)
 - Collecting notifications from monitoring sources
 - Delivering notifications to responsible persons
 - Use topics and subscriptions to route notifications
 - Supported channels
 - email
 - JSON
 - TXT
 - HTTP or HTTPS
 - OpsGenie
 - pagerduty
 - marbot
 - 3rd party tools
 - Amazon SQS
 - AWS Lambda
 - Integrate with Issue Tracker API (e.g., Jira)

- Dashboards
 - Amazon CloudWatch Dashboard
 - AWS Personal Health Dashboard
 - AWS Cost Explorer
 - AWS Config Compliance Overview
 - Amazon Elasticsearch Service Kibana