

**Day - 1****Core Reliability Engineering Concepts and Alerting**

- **Introduction to Site Reliability Engineering (SRE)**
  - What is SRE?
  - Principles of reliability and availability
  - Core responsibilities of a Reliability Engineer
- **Overview of New Relic Platform**
  - Navigating the New Relic One platform
  - Data sources: agents, integrations, APIs
  - Account structure and access control
- **Alert Policies and Conditions**
  - Types of alerts (static, baseline, anomaly)
  - Alert conditions, thresholds, and notification channels
  - Alert muting rules and workflows

**Day - 2****Service Level Management & Observability**

- **SLIs, SLOs, and Error Budgets**
  - Defining service-level indicators and objectives
  - Error budget policies and burn rate calculations
  - Monitoring and visualizing SLO compliance
- **Incident Management and Workflows**
  - Detecting, triaging, and resolving incidents
  - Integration with PagerDuty, Opsgenie, Slack, and webhooks
  - Runbooks and incident response automation
- **Logs and Distributed Tracing**
  - Ingesting logs from services and cloud platforms
  - Correlating logs with traces and metrics
  - Using log patterns and anomaly detection for root cause analysis

## Infrastructure, Cloud, Networking, and Automation

- **Infrastructure and Cloud Observability**

- Deploying and configuring Infrastructure agents
- Integrating AWS, Azure, GCP services
- Monitoring containers (Docker, Kubernetes)

- **Networking, Dependencies, and Service Maps**

- Understanding traffic flow and service health
- Visualizing dependencies with maps and traces
- Identifying bottlenecks in distributed systems

- **Automation and Reporting**

- Automating reliability checks with Terraform/API
- Creating dashboards for operational metrics
- Reporting uptime, SLIs/SLOs, and alert compliance