

Site Reliability Engineering Training Syllabus

Section 1: Introduction

- What is Site Reliability Engineering?
- Why is it Important to learn?
- Introduction to Reliability and levels of Reliability
- Foundation of Reliability
- SRE with DevOps
- Map with Production Environment

Section 2: Site Reliability Engineering Overview

- Fundamentals and Terminology of SRE
- Principles of behind SRE
- Resilience and Reliability Planning
- Explanation about Software Engineering concepts
- Understanding Service Level Objectives SLOs
- Understanding SLAs
- Understanding Service Level Indicators SLIs
- Error Budgets
- Recovery Methods

Section 3: Incident Management

- What is Incident Management?
- Why It is Important?
- Role of SRE in Incident Management
- Key elements of Incident Management
- Unmanaged and Managed Incidents
- Understanding SRE adoption

Section 4: Eliminating Toil

- Introduction to Toil
- Types of Toil
- Categories of Toil

- How to find the Toil?
- How to reduce Toil with automation?

Section 5: Monitoring in SRE

- Introduction to Monitoring
- Types of Monitoring
- To create and Maintain Metrics
- Concepts of Alerts and Traces
- Monitoring Resource and Utilization

Section 6: Automation

- SRE tools
- Automation types
- Concepts of GUI
- CLI vs IAC
- Learning Automated Monitoring
- Learning Automation tools –like PowerShell, Power platform
- Use cases of Automation

Section 7: Troubleshooting

- Understanding the process of Troubleshooting
- Importance of Troubleshooting
- Developing the Runbooks
- Updating the Runbooks
- Analyzing Managing the logs

Section 8: Operations Management

- Concepts of Operation management
- Implement and Manage process for Backup and recovery
- Understanding Operational Readiness
- AI operations and AI Manager

Section 9: Deployments

- Learning Deployment Release Stages
- Continuous Integration

- Continuous Delivery
- ZDD models
- Using kubernetes concepts

Section 10: Security and Compliance

- Security information and event Management
- Monitoring security threats



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