

## DYNATRACE COURSE CONTENT

### Chapter 1: Introduction to Dynatrace

- Introduction to Application Performance Monitoring (APM)
- Overview of Dynatrace features and capabilities
- Installation and setup of Dynatrace environment
- Navigation and user interface exploration
- Key concepts: Agents, OneAgent, and monitoring modes
- Hands-on lab: Setting up your first Dynatrace environment

### Chapter 2: Application Discovery and Configuration

- Automatic discovery of applications and services
- Manual configuration and customization of applications
- Dependency mapping and topology visualization
- Tagging and naming conventions for streamlined monitoring
- Best practices for application configuration
- Hands-on lab: Configuring applications for optimal performance monitoring

### Chapter 3: Performance Data Collection

- Deploying OneAgent
- Managed Clusters
- Configuring ActiveGate
- Management Zones
- Network Zones
- Full-Stack Observability

### Chapter 4: Performance Monitoring and Observability

- Get Started With Application Performance Monitoring (APM)

- Transaction and Service Monitoring Overview
- Database Monitoring Overview
- Get Started With Digital Experience Monitoring (DEM)
- Overview of RUM
- Overview of Synthetic Monitoring
- Creating Browser Monitors
- Creating HTTP Monitors
- Get Started With Infrastructure Performance Monitoring (IPM)
- Host and Process Group Monitoring Overview
- Network Monitoring Overview
- Monitoring Vendor Infrastructure (AWS, Docker, VMware, etc.)
- Monitoring Cloud Platforms
- Monitoring Virtualization Platforms
- Monitoring Containers
- Service-Level Objectives (SLO) Monitoring

## **Chapter 5: Performance Analytics**

- Artificial Intelligence (AI) for IT Operations
- Automated Problem Detection With AI
- Manual Problem Detection With Diagnostics Tools
- User Session Analysis
- User Sessions Query Language (USQL)
- Replay User Sessions
- Log Analytics

## **Chapter 6: Visualizing Data With Dashboards, Charts, and Reports**

- Dashboards in Dynatrace
- Creating Dashboards
- Creating Custom Charts
- Custom Chart Types
- Creating Reports
- Report Scheduling

- Visualizing Topology With Smartscape

## **Chapter 7: Alerting**

- Overview of Alerts With Dynatrace
- Creating Alerting Profiles
- Problem Notifications

## **Chapter 8: Security and Compliance Monitoring**

- Threat detection and anomaly alerts
- Data protection and privacy considerations
- Compliance monitoring and reporting
- Role-based access control (RBAC)
- Best practices for securing monitored environments
- Hands-on lab: Implementing security measures with Dynatrace

## **Chapter 9: Extending Dynatrace**

- Exploring Dynatrace API
- OneAgent Extensions
- ActiveGate Extensions
- Third-Party Integrations

## **Chapter 10: Advanced Analytics and Reporting**

- Custom metric creation and reporting
- AI-driven analytics for predictive insights
- Trend analysis and forecasting
- Executive-level reporting and dashboards
- Extracting actionable insights from analytics
- Hands-on lab: Creating advanced reports and analytics