

Dynatrace Observability & Performance: Monitoring Mastery Course

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Course Overview:

"Dynatrace Monitoring Mastery: Observability & Performance Training" is a cutting-edge Dynatrace training course designed to equip professionals with comprehensive expertise in Dynatrace full stack observability, Dynatrace performance monitoring, and AI-powered IT operations. Through a practical and hands-on approach, this advanced Dynatrace course covers everything from OneAgent deployment to infrastructure monitoring, synthetic monitoring, real user monitoring RUM, and root cause analysis with Davis AI. Whether you're new to Dynatrace or looking to achieve Dynatrace certification, this course provides dynamic insights and real-time monitoring strategies applicable across DevOps, site reliability engineering, and cloud infrastructure environments. Participants will master application performance monitoring training, Dynatrace dashboards and reports, and automation workflows, making them capable of deploying end-to-end monitoring tools that improve system reliability and performance.

Target Audience:

- Network Monitoring Analysts
- DevOps Engineers
- Site Reliability Engineers SREs
- Cloud Infrastructure Specialists
- Application Support Engineers
- IT Operations Teams
- Platform Engineers

Targeted Organizational Departments:

- IT Infrastructure
- DevOps and Engineering Teams
- Network Operations Centers NOC
- Application Support and QA
- Cybersecurity and Performance Teams

Targeted Industries:

- Telecommunications
- Cloud Services and Hosting
- Financial Services and FinTech
- E-commerce and Digital Retail
- Healthcare IT
- Government and Public Sector

Course Offerings:

By the end of this course, participants will be able to:

- Deploy and configure Dynatrace OneAgent for application and infrastructure monitoring
- Analyze network and application performance with Dynatrace performance monitoring tools
- Interpret logs, traces, and metrics through Dynatrace log monitoring and dashboards
- Leverage AI monitoring with Davis to perform root cause analysis
- Apply Dynatrace full-stack observability principles to modern microservices and cloud-native systems
- Build and customize real-time performance monitoring dashboards and alerts
- Use Dynatrace for DevOps automation and CI/CD pipeline integrations
- Understand and apply best practices from Dynatrace APM course modules

Training Methodology:

This Dynatrace training course applies an interactive and practical training methodology. It blends expert-led presentations with guided labs, group activities, and case-based simulations using Dynatrace hands-on workshop sessions. Participants will engage in active learning through synthetic monitoring setups, RUM configurations, Davis AI incident investigations, and dashboard customizations. Real-world case studies from industries like telecom and banking will demonstrate how Dynatrace automation training and full-stack monitoring solutions solve performance bottlenecks. Each day concludes with reflective feedback and collaborative discussions to reinforce learning outcomes and align them with participants' real job challenges.

Course Toolbox:

- Sample dashboards and alerting templates
- Log file samples and trace analysis scenarios
- Dynatrace certification guide and practice test outlines
- Checklist for deploying Dynatrace for DevOps and monitoring microservices

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Course Agenda:

Day 1: Introduction to Dynatrace and Full-Stack Observability

- **Topic 1:** Understanding Observability vs Monitoring: Concepts & Evolution
- **Topic 2:** Introduction to the Dynatrace Platform and Architecture
- **Topic 3:** Deploying Dynatrace OneAgent on Diverse Environments
- **Topic 4:** Navigating the Smartscape and Topology Mapping
- **Topic 5:** Full-Stack Monitoring and Service-Level Dependencies
- **Topic 6:** Application Performance Monitoring APM Essentials with Dynatrace
- **Reflection & Review:** Key Learnings on Dynatrace Deployment and Observability Fundamentals

Day 2: Application, Network, and User Experience Monitoring

- **Topic 1:** Deep Dive into Dynatrace Application Monitoring Web & Mobile
- **Topic 2:** Real User Monitoring RUM and Synthetic Monitoring Configuration
- **Topic 3:** Network Traffic and Bandwidth Analysis with Dynatrace
- **Topic 4:** Analyzing Traces, Services, and Database Queries
- **Topic 5:** Creating and Managing Custom Service Detection Rules
- **Topic 6:** Smart Alerting with Tags, Metadata, and Problem Evolution
- **Reflection & Review:** Cross-functional Troubleshooting Scenarios and Key Insights

Day 3: Infrastructure, Logs, and Cloud Observability

- **Topic 1:** Monitoring Infrastructure: Hosts, VMs, and Cloud Services
- **Topic 2:** Introduction to Kubernetes and Container Monitoring in Dynatrace
- **Topic 3:** Log Ingestion, Correlation, and Analysis with Dynatrace
- **Topic 4:** Metrics, Dimensions, and Custom Events for Alerting
- **Topic 5:** Managing Multi-cloud and Hybrid Environments with Dynatrace
- **Topic 6:** Overview of Cloud Native Workloads and AWS/Azure Integrations
- **Reflection & Review:** Real-World Infrastructure Monitoring Labs and Review

Day 4: AI-Driven Root Cause Analysis and Automation

- **Topic 1:** Understanding Davis AI Engine and Automatic Problem Detection
- **Topic 2:** Root Cause Analysis Using Davis Insights and Dependencies
- **Topic 3:** Configuring Anomaly Detection Thresholds and Custom Rules
- **Topic 4:** Workflow Automation with Alert Routing and Webhooks
- **Topic 5:** Creating Business Metrics and Custom Dashboards
- **Topic 6:** Reporting and Data Visualization for Executive Insights
- **Reflection & Review:** Reviewing Incidents, Automations, and Dashboard Designs

Day 5: Strategic Monitoring, DevOps, and Certification Prep

- **Topic 1:** Observability for DevOps: CI/CD Pipeline Integration
- **Topic 2:** Service-Level Objectives SLOs, SLIs, and Error Budgets
- **Topic 3:** Performance Optimization in Cloud-Native Applications
- **Topic 4:** Comparative Overview: Dynatrace vs Other Observability Tools
- **Topic 5:** Preparing for Dynatrace Certification and Exam Scope
- **Topic 6:** Capstone Exercise: Simulated End-to-End Monitoring Scenario
- **Reflection & Review:** Final Q&A, Knowledge Check, and Course Wrap-Up

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

No prior experience with Dynatrace is required. However, basic knowledge of application infrastructure, network monitoring, or DevOps principles is helpful for maximizing learning.

How long is each day's session, and is there a total number of hours required for the entire course?

Each day's session is generally structured to last around 4-5 hours, with breaks and interactive activities included. The total course duration spans one week, approximately 20-25 hours of instruction.

Is Dynatrace suitable for non-developers such as network monitoring analysts?

Yes, Dynatrace is highly beneficial for network monitoring analysts. It provides deep insights into network performance, correlates user experience data, and offers AI-driven root cause analysis without requiring coding.

How This Course is Different from Other Dynatrace Training Courses:

What sets "Dynatrace Monitoring Mastery: AI-Driven Observability & Performance Optimization Training" apart from typical Dynatrace training courses is its immersive and role-based design. Unlike general-purpose webinars or passive certification videos, this course integrates real-world simulations tailored for network monitoring analysts, DevOps professionals, and site reliability engineers. With a strong focus on full stack observability, AI-powered IT operations, and application performance monitoring training, participants gain deep exposure to Dynatrace dashboards and reports, Dynatrace OneAgent training, and real user monitoring setups. It combines synthetic monitoring Dynatrace techniques, root cause analysis using the Davis AI engine, and CI/CD observability strategies—offering a more holistic, job-relevant, and performance-oriented training experience. The course's structure encourages critical thinking and continuous reflection, positioning it as one of the best Dynatrace training online formats available today.

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