

Datadog- Advanced training content

Duration: 1 day

Advanced Training Content for Datadog

1. Introduction and Overview (30 minutes)

- **Course Objectives:** What participants will achieve by the end of the session.
- **Recap of Datadog Basics:** Quick review of fundamental Datadog concepts.
- **Advanced Features Overview:** Introduction to the advanced features and use cases.

2. Advanced Metrics and Dashboards (60 minutes)

- **Custom Metrics:** Creating and managing custom metrics.
- **Advanced Querying:** Using Datadog's query language to extract and manipulate complex data.
- **Dashboard Design:** Best practices for creating advanced and interactive dashboards.
- **Dashboards as Code:** Managing dashboards using JSON and automation tools.

3. Advanced Alerts and Incident Management (60 minutes)

- **Complex Alert Conditions:** Setting up and managing complex alert conditions using advanced filters and aggregations.
- **Alerting Best Practices:** Strategies for effective alerting to avoid alert fatigue.
- **Incident Management:** Using Datadog's incident management features for tracking and resolving issues.

4. Distributed Tracing and APM (Application Performance Monitoring) (75 minutes)

- **Introduction to Distributed Tracing:** Overview of how distributed tracing works within Datadog.
- **Tracing Integration:** Setting up and configuring tracing for various languages and frameworks.
- **Advanced APM Features:** Utilizing advanced features such as service maps, performance metrics, and trace analytics.
- **Performance Bottlenecks:** Identifying and resolving performance bottlenecks using APM data.

5. Log Management and Analysis (75 minutes)

- **Advanced Log Processing:** Techniques for advanced log ingestion and processing.
- **Custom Parsing and Enrichment:** Creating custom log parsers and enriching logs with additional context.
- **Log Analytics:** Using Datadog's log analytics features to derive actionable insights.
- **Log-Based Alerts:** Configuring alerts based on log data.

6. Security Monitoring and Compliance (60 minutes)

- **Security Monitoring Features:** Overview of Datadog's security monitoring capabilities.
- **Setting Up Security Alerts:** Creating alerts for security events and compliance issues.
- **Compliance Reporting:** Generating reports for compliance auditing and security posture assessment.

7. Integration and Automation (60 minutes)

- **Integrations with Other Tools:** Advanced integration techniques with tools such as Slack, Jira, and PagerDuty.
- **API Usage:** Leveraging Datadog's API for custom integrations and automation.
- **Automated Remediation:** Setting up automated responses to specific alerts or conditions.

8. Performance Optimization and Scaling (45 minutes)

- **Optimizing Datadog Performance:** Tips and strategies for optimizing the performance of Datadog's services.
- **Scaling for Large Environments:** Best practices for scaling Datadog in large, distributed environments.
- **Cost Management:** Techniques for managing and optimizing Datadog costs.

9. Hands-On Lab (90 minutes)

- **Practical Scenarios:** Working through real-world scenarios and use cases.
- **Advanced Configurations:** Implementing advanced configurations and integrations.
- **Troubleshooting:** Identifying and solving issues based on provided scenarios.

10. Review and Q&A (30 minutes)

- **Summary of Key Points:** Recap of advanced topics covered.

- **Participant Q&A:** Addressing specific questions and providing additional insights.
- **Feedback and Next Steps:** Collecting feedback and outlining next steps for continued learning.