Dynatrace Training Lab Document - Day 2 (Detailed Steps)

Dynatrace Training Lab Document - Day 4 (Detailed Steps)

26. Network Monitoring

Objective: Analyze network-level performance and dependencies.

Lab Steps:

1. Navigate to Network > Network Overview.

2. Select a host and open the Network tab.

3. Review:

   - Inbound/Outbound traffic volume

   - Connections to external IPs/domains

4. Go to Services > Select a Service > View Network Dependencies.

5. Analyze latency, retransmission rate, and throughput.

6. Document performance trends and identify any bottlenecks.

27. Log Monitoring Using Dynatrace

Objective: Enable and ingest logs into Dynatrace.

Lab Steps:

1. Navigate to Settings > Log Monitoring.

2. Enable log ingestion from OneAgent or configure log forwarding from syslog.

3. Upload a log file via API or configure integration (e.g., Fluent Bit).

4. Go to Logs > View new log streams.

5. Validate logs ingestion and tag logs by service.

6. Review best practices for retention and data masking.

28. Log Analytics

Objective: Extract insights from logs and create log-based alerts.

Lab Steps:

1. Go to Logs > Use the search bar for log queries.

2. Extract fields using patterns (timestamp, severity, message).

3. Save searches as log view dashboards.

4. Navigate to Metrics > Create Metric from Log.

5. Set alert thresholds on frequency or error types.

6. Validate alerts by generating test log entries.

29. Diagnostic Tools

Objective: Perform deep dive analysis using diagnostic utilities.

Lab Steps:

1. Select a high-CPU service from the Service list.

2. Click on Diagnostics > CPU Profiling -> Start capture.

3. Analyze CPU-intensive methods.

4. Capture Memory Dump for a service.

5. Open Thread & Heap dump views.

6. Use PurePath for transaction trace analysis.

7. Document findings for RCA.

30. Reports & Alerts

Objective: Configure notifications and schedule reporting.

Lab Steps:

1. Go to Settings > Anomaly Detection.

2. Set problem thresholds (CPU > 90%, Response time > 2s).

3. Create alerting profile with severity filters.

4. Go to Settings > Integration > Email/Slack/ServiceNow.

5. Schedule a report:

   - Navigate to Dashboards

   - Click Share > Schedule

6. Generate an ad hoc report and download as PDF.

31. Autosys Integration & Monitoring

Objective: Monitor Autosys jobs via Dynatrace.

Lab Steps:

1. Ensure Autosys job metadata is exported to log files or events.

2. Ingest Autosys logs using Log Monitoring API.

3. Correlate job execution time with service metrics.

4. Set alerts for failed jobs using log analytics.

5. Create dashboard tile for Autosys job health.

32. Automation with APIs

Objective: Automate configuration using Dynatrace APIs.

Lab Steps:

1. Go to Settings > Integration > Dynatrace API.

2. Generate an API token with configuration and metrics scope.

3. Use Postman or curl to:

   - Tag entities

   - Create dashboards

   - Configure alerts

4. Export dashboard JSON and re-import to a different tenant.

5. Schedule a tag update job via CI/CD script.

33. Extending Dynatrace

Objective: Create custom extensions and integrate external systems.

Lab Steps:

1. Go to Hub > Extensions > Create Extension.

2. Follow SDK guide to define metrics and data source.

3. Package and upload extension.

4. Validate data points in dashboard.

5. For ServiceNow:

   - Go to Integration > ITSM > Connect ServiceNow

   - Sync incident creation with problem alerts

6. For Splunk:

   - Export logs or metrics via API

   - Configure webhook or scripted integration

Dynatrace Training Lab Document - Day 2 (Detailed Steps)

End of Day 4 Lab Activities

Use your Dynatrace tenant or demo environment to simulate scenarios. Take notes and prepare a presentation on one integration use case.

References:

- Log Monitoring: https://docs.dynatrace.com/docs/logs

- Diagnostic Tools: https://docs.dynatrace.com/docs/shortlink/diagnostics-tools

- API Automation: https://www.dynatrace.com/support/help/dynatrace-api

- Extensions: https://docs.dynatrace.com/docs/extend-dynatrace