**Dynatrace Training - Day 1: Lab Guide**

**Objective:** To gain hands-on experience with Dynatrace by setting up a monitoring environment, installing OneAgent, and navigating the Dynatrace UI.

**Lab 1: Sign Up for Dynatrace Trial**

**Purpose:** Set up a Dynatrace trial environment to begin monitoring.

**Steps:**

1. Open your preferred web browser.
2. Navigate to: <https://www.dynatrace.com/trial/>
3. Click on **"Start Free Trial"**.
4. Fill in the required details: name, email, organization, phone number, and job title.
5. Check your email inbox and click the confirmation link.
6. You will be redirected to the Dynatrace SaaS platform.
7. Choose a custom environment name. Your environment URL will look like: https://<your-env>.live.dynatrace.com

**Expected Outcome:** You should now have access to the Dynatrace web console and be able to log in using your registered email.

**Lab 2: Environment Initialization and OneAgent Download**

**Purpose:** To install the Dynatrace OneAgent on a test machine to start monitoring.

**Steps:**

1. Log in to your Dynatrace environment.
2. Click on **“Deploy Dynatrace”** from the navigation menu.
3. Select the appropriate operating system:
   * Windows
   * Linux
   * Kubernetes
4. Click **Download OneAgent** or copy the command shown for direct terminal installation.

**For Linux systems:**

wget -O Dynatrace-OneAgent-Linux.sh "<download-link>"

sudo /bin/sh Dynatrace-OneAgent-Linux.sh

**For Windows systems:**

* Download the installer .exe file.
* Run as Administrator.
* Follow the installation wizard.

1. Wait until installation is completed. The agent will automatically connect to the Dynatrace environment.

**Expected Outcome:** Your host machine should appear in the Hosts section of the Dynatrace web UI within a few minutes.

**Lab 3: Validate OneAgent Installation**

**Purpose:** Ensure that OneAgent is installed and working correctly.

**Steps:**

1. From the Dynatrace dashboard, click on **“Hosts”**.
2. Locate the name of your test machine.
3. Click the hostname to view detailed metrics.
4. Verify real-time data for:
   * CPU usage
   * Memory consumption
   * Network traffic
   * Disk I/O
   * Running processes and services

**Expected Outcome:** You should see live monitoring data for your host.

**Lab 4: Explore Smartscape View**

**Purpose:** Visualize the dynamic relationships among hosts, processes, and services.

**Steps:**

1. In the left menu, click on **“Smartscape”**.
2. Review the layers:
   * Hosts
   * Processes
   * Services
   * Applications
3. Hover over any node to view:
   * Entity metadata
   * Relationships and dependencies
   * Health and alert status
4. Click on nodes to drill down into metrics and details.

**Expected Outcome:** Smartscape should show a visual representation of your system's architecture in real-time.

**Lab 5: Create a Custom Dashboard**

**Purpose:** Create a personalized monitoring dashboard.

**Steps:**

1. Navigate to **Dashboards** → **Create dashboard**.
2. Enter a descriptive name like: Student Lab Dashboard.
3. Click **Add Tile**.
4. Choose tile type (e.g., chart, number, table).
5. Select metrics to display:
   * CPU usage (Host metric)
   * Memory usage
   * Disk space usage
   * Process count
6. Customize layout and color options.
7. Click **Save**.

**Expected Outcome:** A dynamic dashboard that reflects the state of your monitored system.

**Lab 6: Tagging and Metadata Exploration**

**Purpose:** Learn how to categorize and search resources using tags.

**Steps:**

1. Navigate to **Hosts** > Select your host.
2. Go to the **Properties and Tags** tab.
3. Click on **Add Tag** > choose **Key:Value**.
   * Example: Environment:Lab, Owner:YourName
4. Save your changes.
5. Use the search bar to find your host using the tags.

**Expected Outcome:** Tags should appear in the metadata section and can be used for filtering, grouping, and automated rules.

**Lab Completion Checklist:**

Created Dynatrace trial account  
Installed OneAgent on a host machine  
Verified monitoring data via Host Metrics  
Explored Smartscape to view topology  
Created a custom dashboard  
Added and validated tags for host entities