Install AppDynamics Apache Agent on RHEL

Contents

Introduction

This document describes how to install the AppDynamics Apache Web Server Agent on a Red Hat Enterprise Linux system with a sample app.

Prerequisites

Requirements

- A running Apache HTTP Server (httpd) or containerized Apache service on RHEL

- Root or sudo access for installation and configuration

- An AppDynamics Controller (SaaS or On-Prem)

- Access credentials (Account Name, Access Key, Controller Host)

- An AppDynamics license that includes Apache agent support

- A working application or use the application present in GitHub link from Related Information section

Components Used

- **OS**: RHEL 8.x

- **Apache HTTP Server**: 2.4

- **AppDynamics Apache Agent**: 24.x (Linux 64-bit)

- **Optional Tools**: Docker, bash scripts for automation

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

The AppDynamics Apache Agent enables visibility into incoming HTTP requests and propagates transaction correlation headers to backend tiers like Java or Node.js agents. This setup is especially useful for observing full transaction traceability in distributed architectures.

Configure

Step 1: Install the Agent

- Visit [AppDynamics Downloads.](#)
- Choose Web Server Agent for Linux 64-bit.
- Download the .tgz archive to your target server or Docker build context.

Step 2: Embed Configuration in Apache
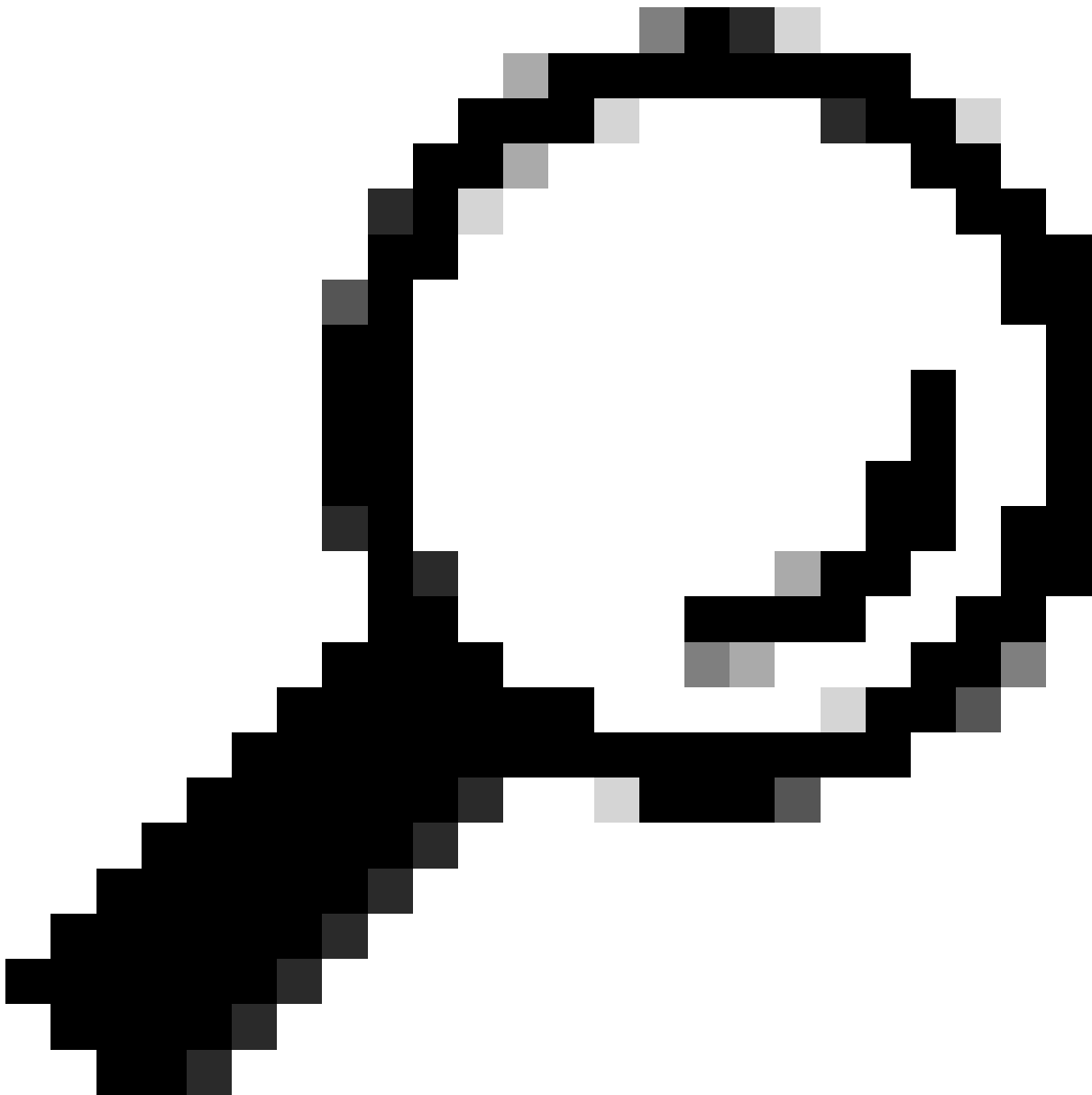
Tip: Make sure to change the details for the code snippet with correct values.

```
# Loading AppD agent SDK
LoadFile /opt/appdynamics-sdk-native/sdk_lib/lib/libzmq.so.5
LoadFile /opt/appdynamics-sdk-native/sdk_lib/lib/libappdynamics_native_sdk.so

# Loading the AppD agent shared library for Apache 2.4
LoadModule appdynamics_module /opt/appdynamics-sdk-native/WebServerAgent/Apache/libmod_appdynamics.so

# Set agent settings here
# Hostname or IP of the AppD controller (using provided controller)
AppDynamicsControllerHost "XXXX"
# AppD account name
AppDynamicsAccountName "XXXX"
# AppD access key
AppDynamicsAccessKey "XXXX"
# Application name
```

```
AppDynamicsApplication "XXXX"
# Tier name
AppDynamicsTier "XXXX"
# Node name
AppDynamicsNode "XXXX"

# Enabling web server monitoring
AppDynamicsEnabled ON
# Port to connect with the controller
AppDynamicsControllerPort 443
# Setting SSL on
AppDynamicsControllerSSL ON
# Enabling auto-launch of the appD proxy
AppDynamicsLaunchProxy ON
```

Then update Apache's main config to include this file:

```
echo "Include conf.d/appdynamics_agent.conf" >> /etc/httpd/conf/httpd.conf
```
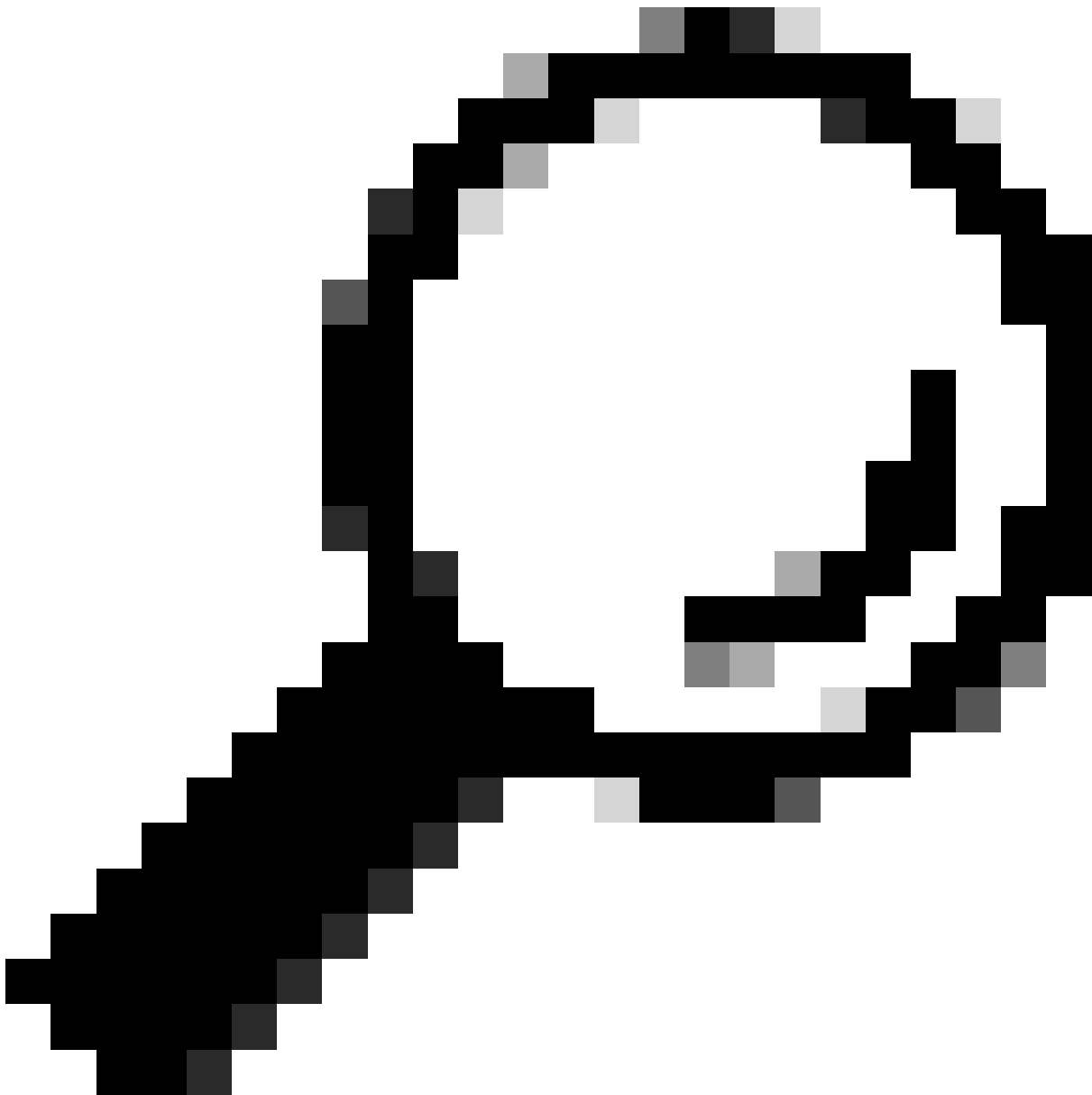
Tip: Sample Dockerfile. Refer the Github link for the complete sample app from Related Information. If you using any other version of Apache AppDynamics agent then Dockerfile needs to be modified accordingly.

```
#Sample Dockerfile

# Start from the Red Hat Universal Base Image with Apache httpd 2.4
FROM  --platform=linux/amd64 registry.access.redhat.com/ubi8/httpd-24

# installed required software
USER root
RUN dnf -y update
RUN dnf -y install tar wget nano net-tools procps


# (Optional) Copy your custom web content into the default document root.
COPY index.html /var/www/html/index.html
```

```
# Disable the SSL configuration for testing currently. Import the certificate if using SSL
#(rename it so it won't be loaded)
RUN mv /etc/httpd/conf.d/ssl.conf /etc/httpd/conf.d/ssl.conf.disabled

# Add ServerName directive to suppress the warning
RUN echo "ServerName localhost" >> /etc/httpd/conf/httpd.conf


# AppDynamics configuration
# Copying the custom config file for AppD agent
COPY ./appdynamics_agent.conf /etc/httpd/conf/appdynamics_agent.conf

# Expose HTTP port 8080
EXPOSE 8080

WORKDIR /appd

#Copy the agent files
COPY ./appdynamics-sdk-native-nativeWebServer-64bit-linux-24.11.0.2449.tgz ./

# Extracting the file downloaded
RUN tar -xzvf appdynamics*.tgz -C /opt

# Specifying the path for the required libraries
#ENV LD_LIBRARY_PATH="/opt/appdynamics-sdk-native/sdk_lib/lib/"
ENV LD_LIBRARY_PATH="/opt/appdynamics-sdk-native/sdk_lib/lib/:$LD_LIBRARY_PATH"

# Including the appdynamics config file into the original httpd configuration
RUN echo "Include /etc/httpd/conf/appdynamics_agent.conf" >> /etc/httpd/conf/httpd.conf

# Running apache agent installation script
RUN /opt/appdynamics-sdk-native/install.sh

# Running the httpd server in foreground
CMD ["/usr/sbin/httpd", "-DFOREGROUND"]
```

Step 3: Restart the HTTPD

If running on server restart the httpd process, in case of Docker it is taken care by starting the container as it start apache with the agent.

```
sudo systemctl restart httpd
```

Verify

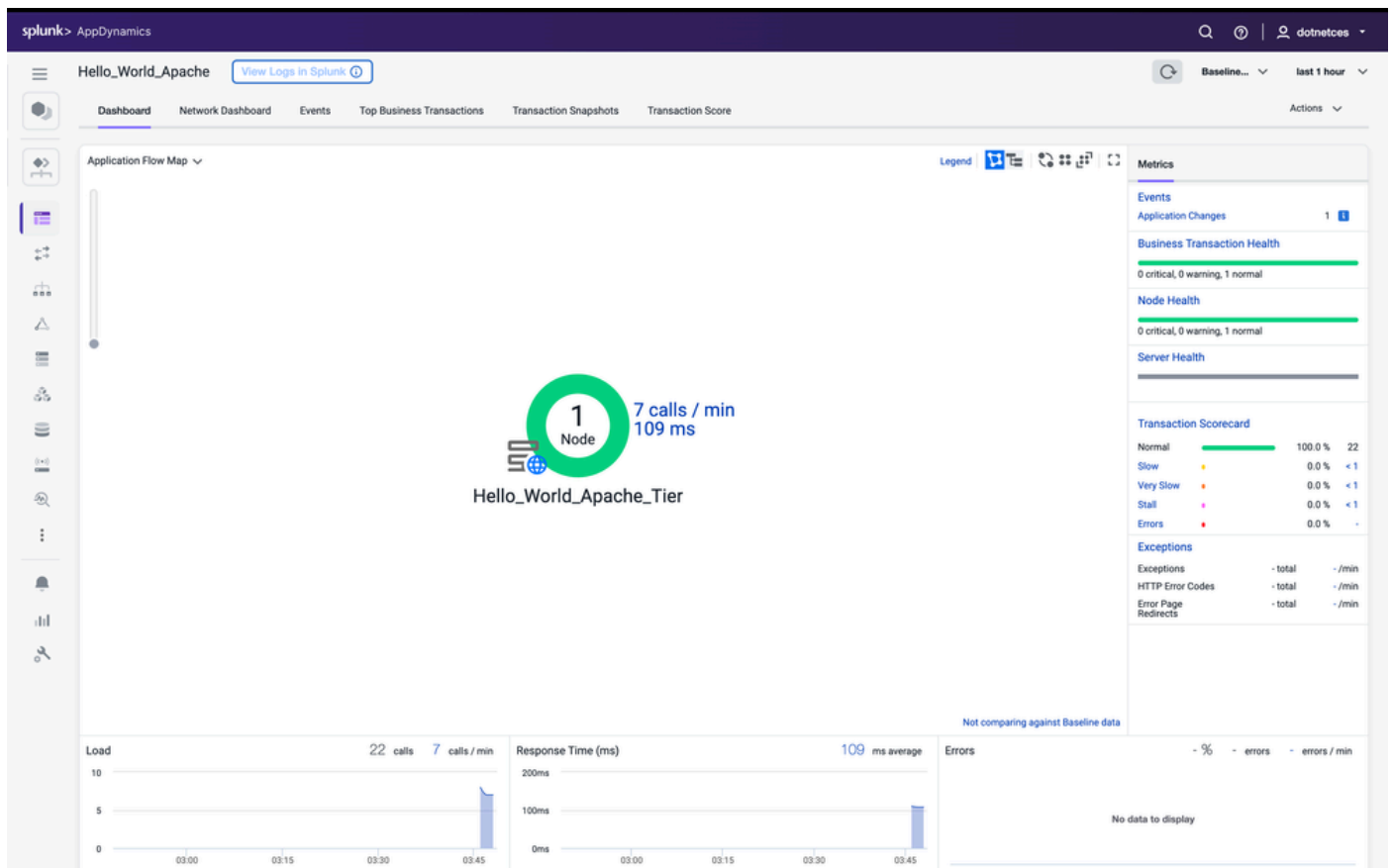## Step 1: Start Your App

Access your Apache server in a browser:

```
http://<your-server-ip>:80/
```

Or via Docker

```
http://localhost:8080/
```

Step 2: Go to AppDynamics Dashboard

- Log in to your AppDynamics Controller.

- Navigate to**Applications > Hello_World_Apache**.

- Look for metrics and flow maps within 5 minutes.

Troubleshoot

Issue	Possible Cause	Resolution
Apache fails to restart	Incorrect path to mod_appdynamics.so	Validate file path and permissions
No metrics in AppDynamics	Controller config incorrect	Double-check Access Key, Host, Account name

Apache logs don't show agent activity	Module not loading	Check httpd error logs; verify LoadModule line
Logs not generated	Missing logs/ dir or permissions	Check <agent_install_directory>/logs

Related Information

- [AppDynamics Documentation](#)
- [Install the Apache Agent](#)
- [GitHub Apache AppDynamics Agent Sample](#)

Need Further Assistance?

If you have a question or experiencing issues, please create a[support ticket](#)with these details:

- Error details or screenshot:Provide specific error message or a screenshot of the problem.
- Command used: Specify the exact command you were running when the issue occurred.
- Apache agent logs: Provide the agent logs from <agent_install_directory>/logs if generated.