**Check the Service Unit File Apache Tomcat 8.5**

The error message indicates that the Tomcat service failed to start due to an issue with the startup.sh script, which is resulting in an exit code of 203. The service is also trying to restart too quickly and failing repeatedly.

Here are the steps to troubleshoot and resolve this issue:

**1. Check the Service Unit File**

First, ensure that the tomcat.service file is correctly configured. The file is typically located at /etc/systemd/system/tomcat.service. It should look something like this:

ini

Copy code

[Unit]

Description=Apache Tomcat Web Application Container

After=network.target

[Service]

Type=forking

User=tomcat

Group=tomcat

Environment="JAVA\_HOME=/usr/lib/jvm/java-8-openjdk-amd64"

Environment="CATALINA\_PID=/opt/tomcat/temp/tomcat.pid"

Environment="CATALINA\_HOME=/opt/tomcat"

Environment="CATALINA\_BASE=/opt/tomcat"

Environment="CATALINA\_OPTS=-Xms512M -Xmx1024M -server -XX:+UseParallelGC"

Environment="JAVA\_OPTS=-Djava.awt.headless=true -Djava.security.egd=file:/dev/./urandom"

ExecStart=/opt/tomcat/bin/startup.sh

ExecStop=/opt/tomcat/bin/shutdown.sh

Restart=on-failure

[Install]

WantedBy=multi-user.target

**2. Verify Permissions**

Ensure that the startup.sh and shutdown.sh scripts have the correct permissions:

sh

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sudo chmod +x /opt/tomcat/bin/startup.sh

sudo chmod +x /opt/tomcat/bin/shutdown.sh

Also, ensure the tomcat user has the necessary permissions to the Tomcat installation directory:

sh

Copy code

sudo chown -R tomcat:tomcat /opt/tomcat

**3. Check the Logs**

Examine the Tomcat logs for more details on why it's failing to start. Logs are typically located in /opt/tomcat/logs/:

sh

Copy code

tail -n 100 /opt/tomcat/logs/catalina.out

**4. Verify JAVA\_HOME**

Ensure that the JAVA\_HOME environment variable is correctly set in the service unit file. Verify that Java is correctly installed and the path is correct:

sh

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echo $JAVA\_HOME

/usr/lib/jvm/java-8-openjdk-amd64/bin/java -version

**5. Reload and Start the Service**

After making the necessary changes, reload the systemd configuration and start the Tomcat service:

sh

Copy code

sudo systemctl daemon-reload

sudo systemctl start tomcat.service

sudo systemctl status tomcat.service

**Example of Step-by-Step Commands**

Here is a series of commands to perform the steps outlined above:

sh

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# Check and edit the service file

sudo nano /etc/systemd/system/tomcat.service

# Ensure startup and shutdown scripts are executable

sudo chmod +x /opt/tomcat/bin/startup.sh

sudo chmod +x /opt/tomcat/bin/shutdown.sh

# Ensure the tomcat user has the necessary permissions

sudo chown -R tomcat:tomcat /opt/tomcat

# Check the Tomcat logs for errors

tail -n 100 /opt/tomcat/logs/catalina.out

# Verify JAVA\_HOME and Java installation

echo $JAVA\_HOME

/usr/lib/jvm/java-8-openjdk-amd64/bin/java -version

# Reload systemd and start the Tomcat service

sudo systemctl daemon-reload

sudo systemctl start tomcat.service

sudo systemctl status tomcat.service

If after these steps the issue persists, the logs should provide more specific information that can guide further troubleshooting.

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how to uninstall apache tomcat 8.5 and java with command and example ?

ChatGPT

To uninstall Apache Tomcat 8.5 and Java from a Linux system, you can follow these steps. The specific commands may vary depending on your Linux distribution, but I'll provide examples for both Debian-based (like Ubuntu) and Red Hat-based (like CentOS) systems.

**Uninstalling Apache Tomcat 8.5**

**For Debian-based Systems (Ubuntu):**

1. **Stop the Tomcat Service**:

sh

Copy code

sudo systemctl stop tomcat.service

1. **Disable the Tomcat Service**:

sh

Copy code

sudo systemctl disable tomcat.service

1. **Remove the Tomcat Directory**:

sh

Copy code

sudo rm -rf /opt/tomcat

1. **Remove the Tomcat Service File**:

sh

Copy code

sudo rm /etc/systemd/system/tomcat.service

1. **Reload the Systemd Daemon**:

sh

Copy code

sudo systemctl daemon-reload

**For Red Hat-based Systems (CentOS):**

The steps are similar:

1. **Stop the Tomcat Service**:

sh

Copy code

sudo systemctl stop tomcat.service

1. **Disable the Tomcat Service**:

sh

Copy code

sudo systemctl disable tomcat.service

1. **Remove the Tomcat Directory**:

sh

Copy code

sudo rm -rf /opt/tomcat

1. **Remove the Tomcat Service File**:

sh

Copy code

sudo rm /etc/systemd/system/tomcat.service

1. **Reload the Systemd Daemon**:

sh

Copy code

sudo systemctl daemon-reload

**Uninstalling Java**

**For Debian-based Systems (Ubuntu):**

1. **List Installed Java Packages**:

sh

Copy code

dpkg --list | grep -i jdk

1. **Uninstall Java**:

sh

Copy code

sudo apt-get remove --purge openjdk-8-jdk

sudo apt-get remove --purge openjdk-8-jre

1. **Remove Unused Packages and Clean Up**:

sh

Copy code

sudo apt-get autoremove

sudo apt-get clean

**For Red Hat-based Systems (CentOS):**

1. **List Installed Java Packages**:

sh

Copy code

rpm -qa | grep -i jdk

1. **Uninstall Java**:

sh

Copy code

sudo yum remove java-1.8.0-openjdk

sudo yum remove java-1.8.0-openjdk-devel

1. **Remove Unused Packages and Clean Up**:

sh

Copy code

sudo yum autoremove

sudo yum clean all

**Example Commands for Ubuntu**

Here's a consolidated example for Ubuntu:

sh

Copy code

# Stop and disable Tomcat service

sudo systemctl stop tomcat.service

sudo systemctl disable tomcat.service

# Remove Tomcat directory and service file

sudo rm -rf /opt/tomcat

sudo rm /etc/systemd/system/tomcat.service

# Reload systemd daemon

sudo systemctl daemon-reload

# List installed Java packages

dpkg --list | grep -i jdk

# Uninstall Java

sudo apt-get remove --purge openjdk-8-jdk

sudo apt-get remove --purge openjdk-8-jre

# Remove unused packages and clean up

sudo apt-get autoremove

sudo apt-get clean

**Example Commands for CentOS**

Here's a consolidated example for CentOS:

sh

Copy code

# Stop and disable Tomcat service

sudo systemctl stop tomcat.service

sudo systemctl disable tomcat.service

# Remove Tomcat directory and service file

sudo rm -rf /opt/tomcat

sudo rm /etc/systemd/system/tomcat.service

# Reload systemd daemon

sudo systemctl daemon-reload

# List installed Java packages

rpm -qa | grep -i jdk

# Uninstall Java

sudo yum remove java-1.8.0-openjdk

sudo yum remove java-1.8.0-openjdk-devel

# Remove unused packages and clean up

sudo yum autoremove

sudo yum clean all

These steps should help you completely uninstall Apache Tomcat 8.5 and Java from your system.

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