Setting Up Multiple Apache Tomcat Instances on Red Hat Linux

This document provides detailed steps for setting up multiple instances of Apache Tomcat on a Red Hat Linux system.

1. Install Tomcat:

- Use `sudo yum install tomcat` to install Apache Tomcat.

2. Create Instance Directories:

- Create separate directories for each Tomcat instance, e.g., `sudo mkdir /opt/tomcat-instance1`.

3. Copy Configuration Files:

- Copy the default configuration files to each instance's directory, e.g., `sudo cp -R /opt/tomcat/conf /opt/tomcat-instance1/`.

4. Set Environment Variables:

- Edit the startup script (e.g., `startup.sh`) in each instance's bin directory.

- Set `CATALINA\_HOME` to point to the original Tomcat installation, e.g., `CATALINA\_HOME=/opt/tomcat`.

- Set `CATALINA\_BASE` to the instance's directory, e.g., `CATALINA\_BASE=/opt/tomcat-instance1`.

5. Configure Server Ports:

- In the `server.xml` file in each instance’s `conf` directory, change the Connector port, Shutdown port, and any other required ports.

- Ensure each instance runs on a different set of ports.

6. Start Each Instance:

- Use `./startup.sh` to start each Tomcat instance, ensuring the correct `CATALINA\_BASE` and `CATALINA\_HOME` are set.

7. Deploy Applications:

- Deploy your web applications to the `webapps` directory in each instance.

8. Test Your Instances:

- Access each instance via a web browser using its unique port to ensure it's running correctly.

9. Monitor and Optimize:

- Regularly monitor each instance’s performance and make necessary adjustments.

Note: Ensure that the ports used by each instance are open in the firewall settings.