5.3 Setup Puppet

This section will guide you to:

Setup install and Setup Puppet.

This lab has six sub-sections:

* + 1. Create a Docker network for Puppet.
    2. Pull the Puppet images.
    3. Start the Puppet server and log it.
    4. Start the agent and connect to the server.
    5. Find the packages managed by Puppet.
    6. Tidy up.

**Step 5.2.1:** Create a Docker network for Puppet.

Create a Docker network for puppet.

*docker network create puppet*

Check what has been created.

*docker network ls*

**Step 5.2.2:** Pull the Puppet images.

Pull the puppet images.

*docker pull puppet/puppetserver-standalone  
docker pull puppet/puppet-agent-alpine  
docker images*

**Step 5.2.3:** Start the Puppet server and log it.

Start the puppet server.

*docker run --net puppet -d --name puppetserver --hostname puppet puppet/puppetserver-standalone  
docker ps*

We need to ensure that the server is running. Extract the logs until you see the message:  
Puppet Server has successfully started and is now ready to handle requests

*docker logs puppetserver*

**Step 5.2.4:** Start the agent and connect to the server.

Open another terminal window using SSH.

Start the puppet agent. It will connect to the server and perform a certificate exchange. Check out the output.

*docker run --rm --net puppet --link=puppetserver:puppet puppet/puppet-agent-alpine*

**Step 5.2.5:** Find the packages managed by Puppet.

Find out what package puppet is managing.

*docker run --rm --net puppet --link=puppetserver:puppet puppet/puppet-agent-alpine resource package*

Step 5.2.6: Tidy up.

Tidy up.

*docker rm -f puppetserver*