

How to set up your lab environment

This document describes the steps you need to take to create and configure your own lab environment so you can follow along with the **RHEL 8: Using Essential Tools** course.

This lab environment will be used to enable a working Linux environment to practice Linux CLI commands and configuration.

Pre-requisites

You should be able to install the Red Hat Enterprise Linux 8 operating system from the installer prompts. You could also use Vagrant and VirtualBox to simplify the process, you can learn more about Vagrant from the course **Introduction to Versioning Environments With Vagrant**

Virtual machines you should create

Virtual machine 1

For this course a single virtual machine is required

Operating System: Red Hat Enterprise Linux 8 or rebuild such as Rocky Linux 8, AlmaLinux 8 or CentOS Stream

Software: Minimal Server Install

Special configuration: Your user account should be set as an Administrator enabling the account to elevate privileges

Additional Resources

If using vagrant:

```
vagrant pull generic/rhel8 (requires subscription to be added which is covered in the course ( RHEL 8: Using Essential Tools )
```

or

```
vagrant pull rockylinux/8
```

The following is a Vagrantfile that can be used for this and other RedHat 8 courses, this defines a couple of virtual machines but only one is required for this course. The Vagrantfile will work for other REHL 8 courses:

1. Create directory for course
2. Enter the directory and in the directory create the following file named Vagrantfile in mixed case

```
# -*- mode: ruby -*-
# vi: set ft=ruby :
Vagrant.configure("2") do |config|
  config.vm.define "rhel8" do |rhel8|
    rhel8.vm.box = "generic/rhel8"
    rhel8.vm.network "private_network", ip: "192.168.56.101"
    rhel8.vm.hostname = "rhel8"
    rhel8.vm.provider "virtualbox" do |vb|
      vb.memory = "1024"
    end
  end
  config.vm.define "stream" do |stream|
    stream.vm.box = "centos/stream8"
    stream.vm.network "private_network", ip: "192.168.56.102"
    stream.vm.hostname = "stream"
    stream.vm.provider "virtualbox" do |vb|
      vb.memory = "1024"
    end
  end
end
```

Then, whilst still on the directory we can start the VM using: `vagrant up rhel8`

Steps to check if your virtual machines are set up correctly

Once your virtual machine is ready you should be able to login to the operating system as your supplied user account. Using the command `sudo -l` you should be listed as able to run all commands with elevation

If using vagrant, you can access the server using the following command where you will be logged in as the user vagrant:

```
vagrant ssh rhel8
```

If you think you've followed those steps correctly and are still not seeing the Accepted response, let us know about it