



Install Rancher with Docker

Lab 6



What are you Learning?

In this lab you'll [install a single-node Rancher cluster](#) with Docker.

Why is it important?

The single node Rancher cluster is a simple, and easy-to-deploy method to get Rancher up and running quickly. It is excellent for experimentation, as well as development, and laboratory scenarios

Use Docker to Install Rancher

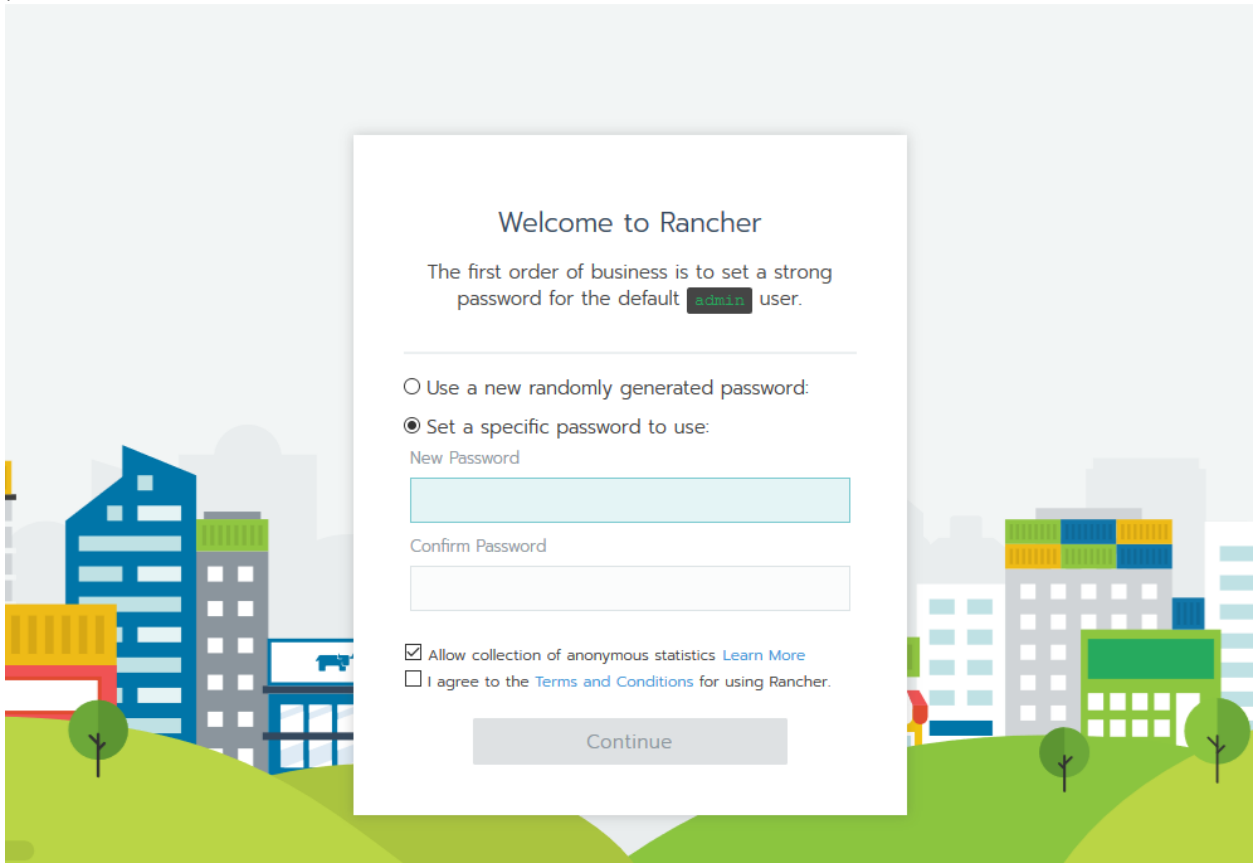
This lab will be a new single-node environment. Do not use the machines you used in previous labs. If you haven't already, provision a virtual machine from a cloud provider or an internal on-premises lab environment. Don't use ephemeral environments, like [EC2 spot instances](#), as you will need this machine for future labs.

1. Configure your infrastructure so that your node meets [Rancher installation requirements](#).
2. If your images don't come with Docker, [you'll need to install it](#).
3. Find the latest version of Rancher in the [GitHub releases page](#). We want to install one version back, so we can upgrade this Rancher installation in a future Lab.
4. [Use Docker to install Rancher](#). Use the example below as a model for starting it with a bind-mounted volume for persistent storage.

```
docker run -d --restart=unless-stopped -p 80:80 -p 443:443 -v
/opt/rancher:/var/lib/rancher rancher/rancher:v2.4.1
Unable to find image 'rancher/rancher:v2.4.1' locally
v2.4.1: Pulling from rancher/rancher
5bed26d33875: ...
Digest:
sha256:7796eb2a851ad00509052d012afa5e8f74c9e84da51c798f14850e0255160558
Status: Downloaded newer image for rancher/rancher:v2.4.1
430a461add079f67ed549b83b48a79244e9bce925ee0d9bce5bc8730a413898f
```

Testing That It Works

1. You should be able to navigate to the Rancher cluster in a browser, via the machine's public IP address.



References

- Installing Rancher on a Single Node using Docker - <https://rancher.com/docs/rancher/v2.x/en/installation/other-installation-methods/single-node-docker/>
- Spot Instances - <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-spot-instances.html>
- Installation Requirements - <https://rancher.com/docs/rancher/v2.x/en/installation/requirements/>
- Install Docker - <https://rancher.com/docs/rancher/v2.x/en/installation/requirements/#installing-docker>