

Containers

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Complete the following problems

References, a video, a PowerPoint and some notes are available at my website
<https://www.aholdengouveia.name/LinuxAdmin/containers.html>

Make sure to do all these on both servers unless otherwise noted.

1. Install Docker and Kubernetes on both your servers.

You can use Microk8s as your Kubernetes installation method

Instructions: <https://microk8s.io/>

2. Install Minikube on both your servers

Tutorial: <https://kubernetes.io/docs/tutorials/hello-minikube/>

3. Get a basic web server working using Docker OR kubernetes on ONE of your servers.

You can grab the docker image from https://hub.docker.com/_/httpd

I also have some instructions and sample yaml files available for you on my website <https://www.aholdengouveia.name/SmartHome/Virtualizationsetup.html>

If you would prefer you can substitute another server for Apache such as Home Assistant or ZoneMinder.

Deliverables

Target Market is someone technically inclined but unfamiliar with virtualization. Include screenshots to walk them through the install process, as well as explanations of what you're doing and any troubleshooting that was needed.

1. A document on how to install Docker and Kubernetes on both servers.
2. A short document describing how the Minikube tutorial went, what gave you trouble (if anything) and how you fixed it. Include screenshots to show how it went and what steps you did.
3. A document on how to install Microk8s on both servers.
4. An executive summary on what containers are, pro/cons of containers, and why you think Acme corp should or shouldn't consider using them going forward. Executive summary should be less than 1 page.