

# Intro to Docker: Syllabus

January 12, 2020 / 9:00 PM - 10:00PM EST

## Important Links

### [Workshop Hackpack](#)

Pre-workshop checklist, and resources to explore during and after the workshop.

### [Hack the North 2020++ Event Schedule](#)

Check this out to stay up-to-date on activities, workshops, and other key happenings this weekend.

## Motivator

The hype nowadays always seems to be about containerization. Throw everything into the cloud as a Docker container! With the vast majority of companies slowly moving away from virtual machines and bare-metal EC2 instances, now is a prime opportunity to learn more about what Docker is and how to apply it to projects/work as a regular developer.

## Prerequisite Knowledge

In order to get the most out of this workshop you should be comfortable with the following concepts:

- Basic JavaScript and Node.js Knowledge
- Basic understanding of Cloud Providers and what deployment is

## Learning Outcomes

This is what you can expect to take away from this workshop:

- Know what Docker is and why people use it
- Basic Docker terminology
- Know the basic workflow of building, running, and debugging containers
- How to deploy a container to the cloud

**Timeline (1 hour)**

Time	Module	Description
5 min.	Introduction to Docker	Will briefly touch on what Docker is, what containers are, and why one would use Docker
10 min.	Parts of Docker	Anatomy of Docker. What containers, images, layers, and Dockerfiles are and what role they play
10 min.	Docker CLI	Getting hands-on! Using the Docker CLI to actually build, run, and debug containers and images
5 min.	A Node Example	Dockerizing a simple Node application
15 min.	Deploying on GCR	Deploying it to the cloud using Google Cloud Run
15 min.	Q&A and Buffer Time	