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# TRFDC - TRFDC – Introduction to Docker Container

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## Audience

This course is intended for general audiences who wants to get to know about basic of Docker Container

## Pre-Requisites

None

## Key Topics

- Evolution of virtualization leading to container
- Difference between container and virtualization
- Understanding Docker
- Install and run Docker in many different OS
- Run container from official image
- Create custom image using Dockerfile
- Networking in container
- Create simple web server using container

## Objectives

After completing this course, you should be able to:

- Differentiate between virtualization and container
- How to install and run Docker in Linux and Windows
- Create and run custom image using Dockerfile
- Create simple web server using container

## Details

### Server Evolution

- Evolves from silo-based, virtualization and containerized application
- Container vs Virtualization

### Enter Docker

- What is Docker?

- Install Docker in many different OS

## Diving in Container

- What is container?
- Run simple container!
- How container works

## Docker Image – Different kind of Template

- What is Docker Image?
- Layering in Docker Image
- Run official Docker Image!
- Welcome to Dockerhub

## Dockerfile – Heart of Docker Image

- What is Dockerfile?
- Many commands in Dockerfile
- Create a Dockerfile!
- Versioning in Dockerfile

## Optimizing Dockerbuild

- Build an Image using Dockerfile
- Context in Dockerbuild
- Ignore files using Dockerignore
- Minimize Layer!

## Networking in Docker

- Default network in container
- Bridge network in container

## Time to Create!

- Simple web server with HTTP + SSL + PHP
- Simple web server with Nginx + PHP 7