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# Getting Started with Oracle Database Containers

**ANIL MAHADEV**

**PRESIDENT OF AUSTIN ORACLE USER GROUP**

**PRINCIPAL CLOUD ARCHITECT,**

**IDERA**

# About Me

- Principal Cloud and Pre-Sales Solutions Architect at IDERA
- President, Austin User Group
- Avid EDM Producer and Sound Designer
- Self taught Chef and World Traveler

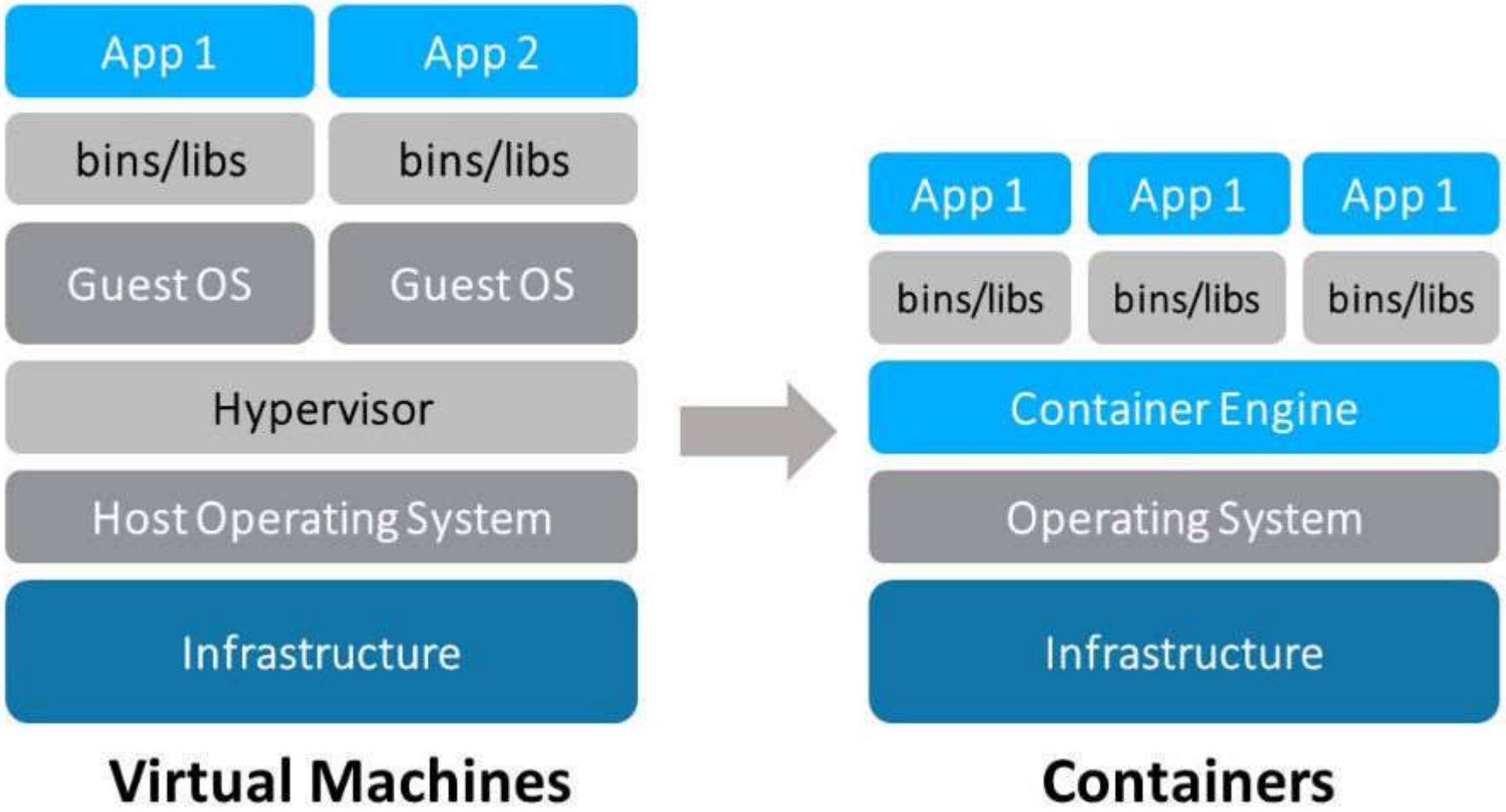

- Email: anilmahadev@outlook.com
- X: theoramahadev
- LinkedIn: https://www.linkedin.com/in/anilmahadev

# Agenda

- Introduction to Containers
- Why Containers
- Setting up an Oracle Database Container
- Lab Exercise
- Q&A

# What is a Container

# VM vs Container Architecture



# Introduction to Containers

- Containers are lightweight, portable, and self-sufficient units that revolutionize software development and deployment. In this presentation, we'll delve into the essence of containers, exploring how they encapsulate applications, their dependencies, and configuration settings.
- Discover how containers streamline development, enhance scalability, and simplify deployment, making them a cornerstone of modern software engineering

# Why Containers

Containers, the game-changers of modern software development, are here to stay. In this presentation, we'll explore the compelling reasons behind the widespread adoption of containers.

Discover how containers boost efficiency, facilitate consistent environments, and enable seamless scaling.

We'll dive into the advantages of containerization, from resource optimization to simplified maintenance, and how they accelerate the development lifecycle.

As we uncover why containers have become an indispensable asset in the world of technology, driving innovation and agility like never before.

# Setting up an Oracle Database Container - Lab

- Pre-requisites
- Docker Desktop / Podman (Windows, Linux or Mac)
- Link to the github repository
- Elevated privileges in Commandline to run these

# Setting up an Oracle Database Container – Lab

- This will be a single node Oracle Database container
- We will create a base container with the defaults
- Make some modifications and then re-run the new container image with the changes

# *Lab Exercises*

- Please have docker desktop installed on your machine if you wish to follow along

- Docker Desktop: The #1 Containerization Tool for Developers | Docker

- Location of the Github Repo gvenzl/oci-oracle-free: Build scripts for Oracle Database FREE container/docker images (github.com)

# Step 1: Pull down and run the container – Non-persistent version

docker run -d -p 1521:1521 -e ORACLE_PASSWORD=<your password> gvenzl/oracle-free

# Step 2: Pull down and run the container – persistent version

docker run -d -p 1521:1521 -e ORACLE_PASSWORD=<your password> -v oracle-volume:/opt/oracle/oradata gvenzl/oracle-free

# Step 3: Make modification – persistent version

docker commit <container-ID>  <New Image Name>

# Q&A

# *Thank you*