LibreOffice CONFERENCE INDONESIA ID

Running The Latest LibreOffice with Docker Container
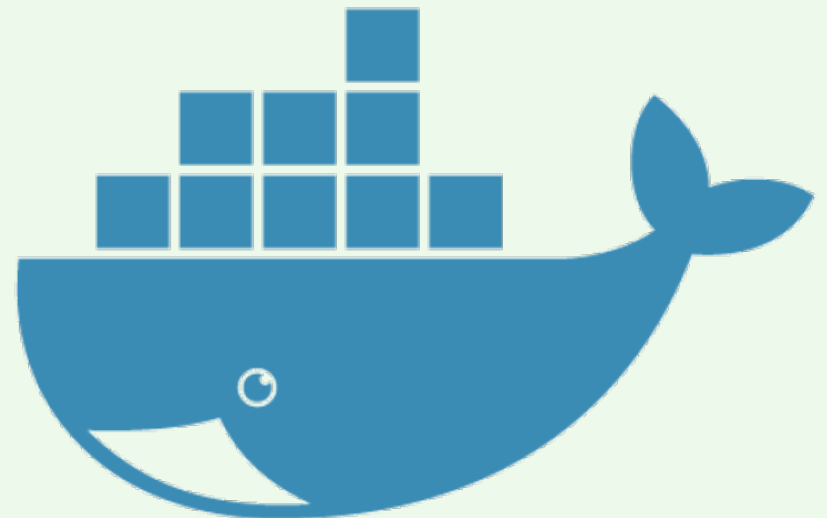
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Me ?

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  – DevOps of DOT Indonesia
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  – Member of KLiM

Contents

- What is LibreOffice?
- What is Docker?
- How to run LibreOffice within Docker?
- Demo Time

What is LibreOffice?

- Free and open source office suite, a project of The Document Foundation.
- Forked from OpenOffice.org in 2010, which was an open-sourced version of the earlier StarOffice.
- Word processing, spreadsheets, slideshows, diagrams and drawings, working with databases, and composing mathematical formulae.

LibreOffice

Virtualization Types

- Hardware Level
  - Full Virtualization: Oracle VirtualBox, VMWare Workstation, Qemu
  - Bare Metal Virtualization: RedHat KVM, Citrix Xen, VMWare Vsphere, Microsoft HyperV
- Operating System Level (OS Container): OpenVZ, LXC
- Application Level (Application Container): Docker, rkt

What is 🐋 docker ?

- Docker is an open-source project that automates the deployment of applications inside software container
- Docker containers wrap up a piece of software in a complete file system that contains everything it needs to run: code, runtime, system tools, system libraries – anything you can install on **a server**.
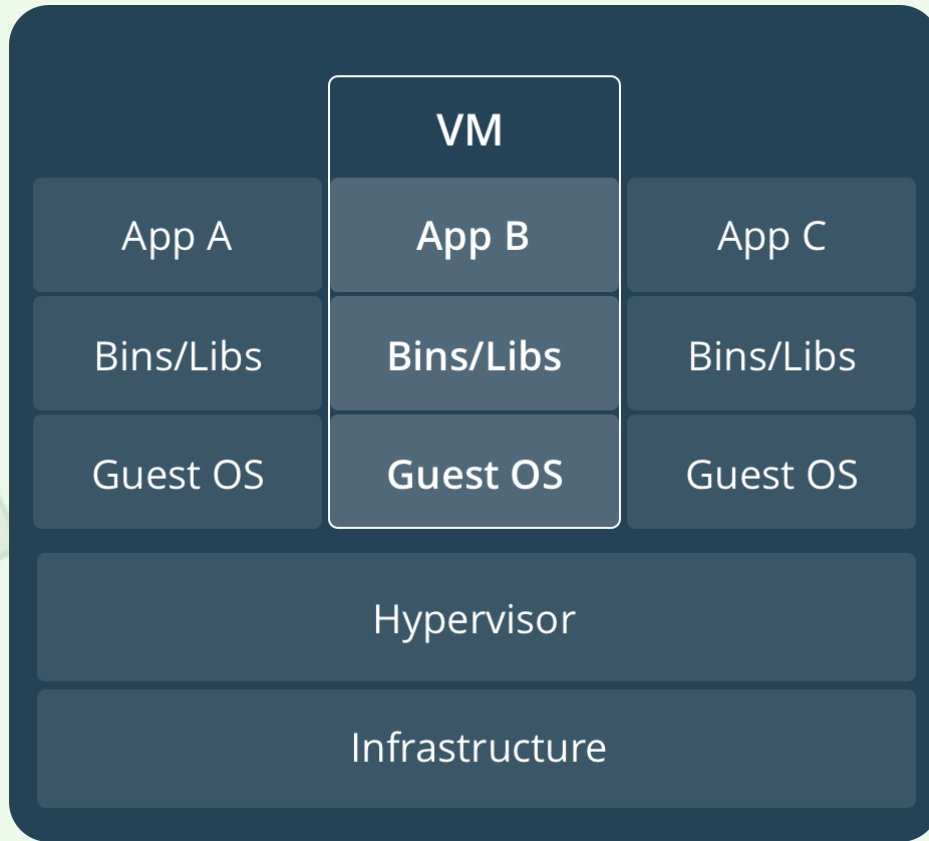
Introduction to Container
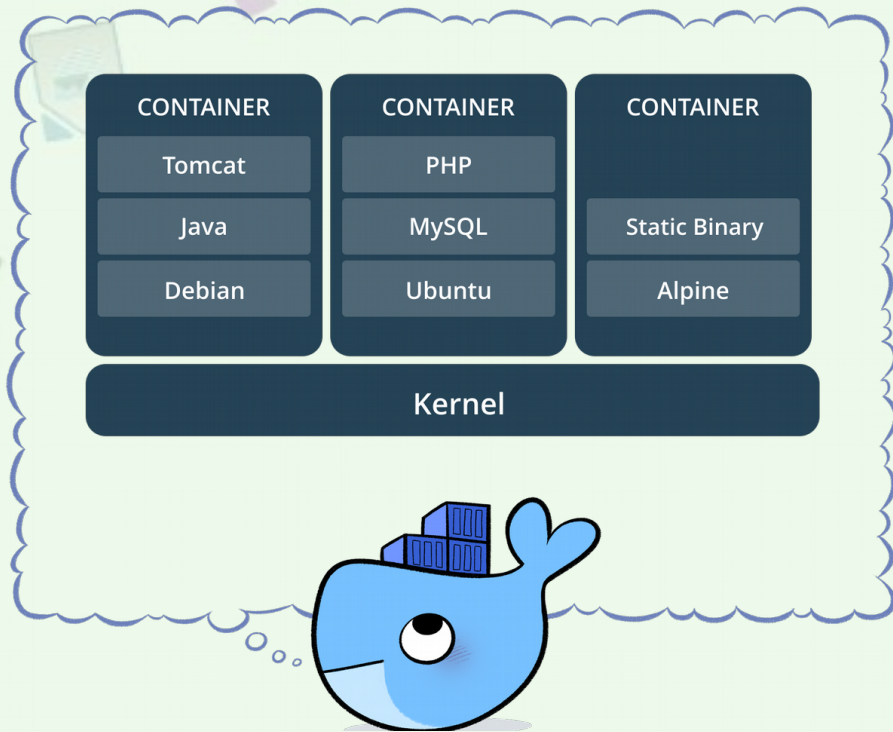
- Standardized packaging for software and dependencies

- Isolate apps from each other

- Share the same OS kernel

- Works with all major Linux and Windows Server

Container vs VM

	VM	
App A	**App B**	App C
Bins/Libs	**Bins/Libs**	Bins/Libs
Guest OS	**Guest OS**	Guest OS
Hypervisor		
Infrastructure		

	CONTAINER	
App A	**App B**	App C
Bins/Libs	**Bins/Libs**	Bins/Libs
Docker		
Host OS		
Infrastructure		

VMs are an infrastructure level construct to turn one machine into many servers
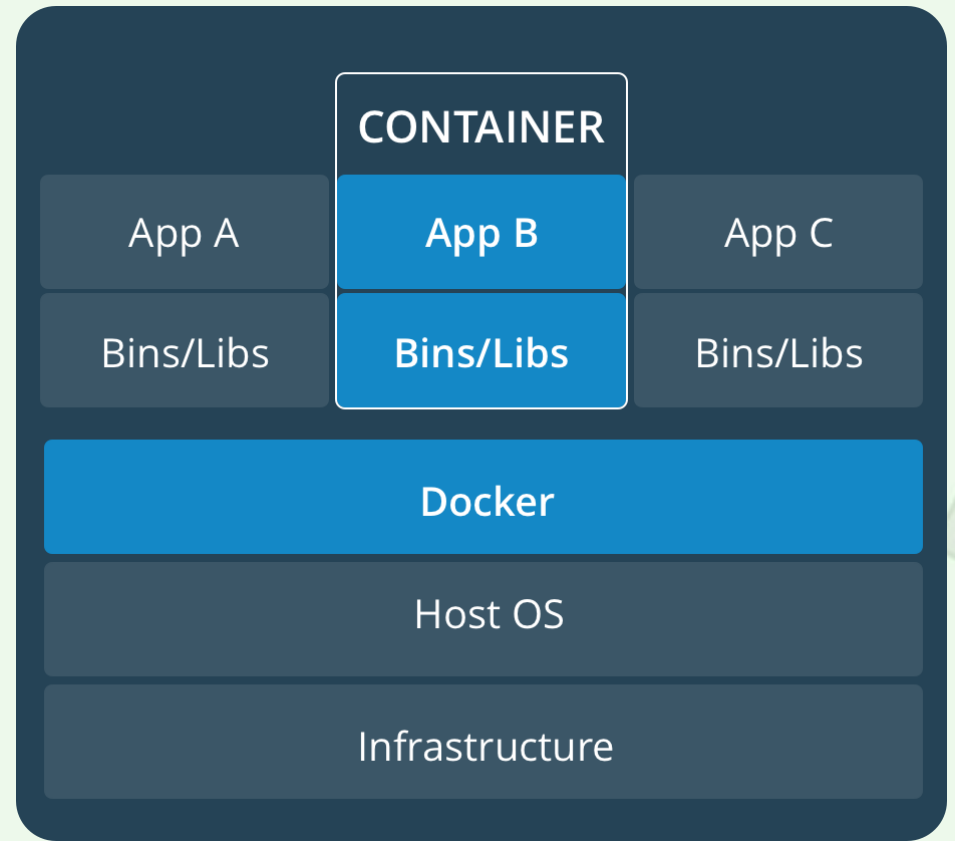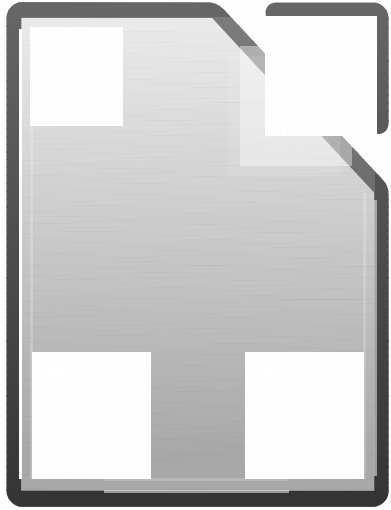
Containers are an app level construct

Container & VM
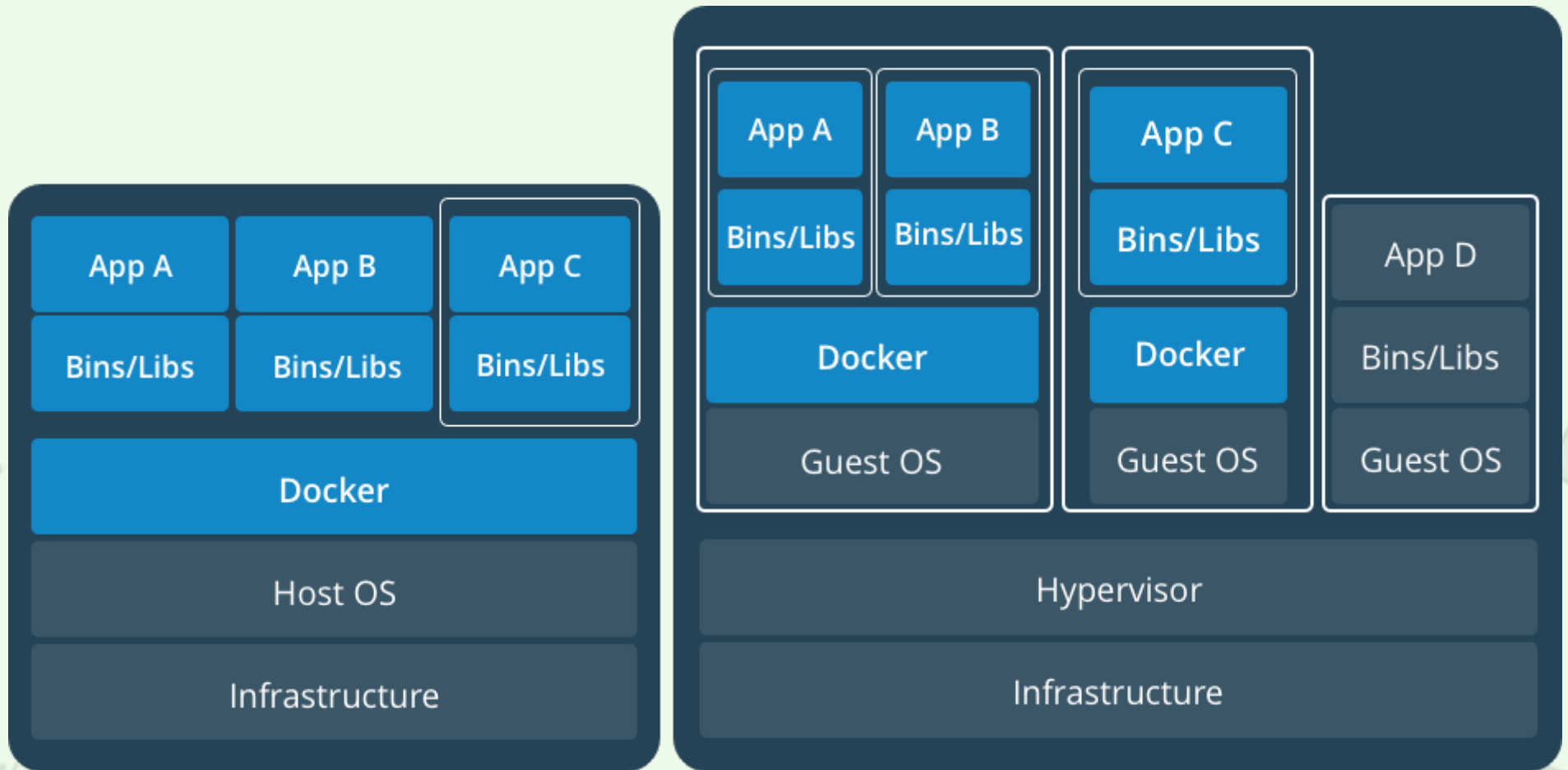
Containers and VMs together provide a tremendous amount of flexibility for IT to optimally deploy and manage apps.
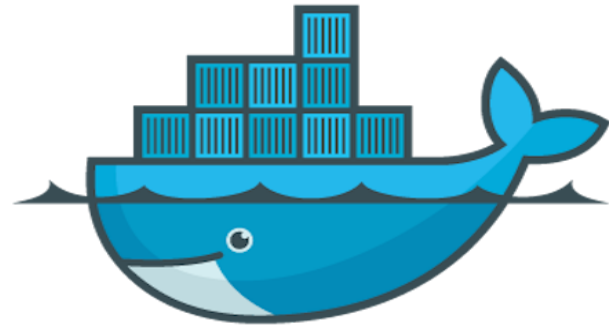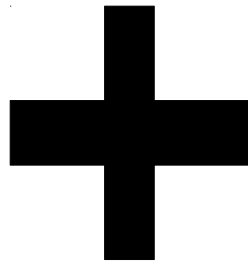
Yes we can!

How?

How to run LibreOffice within Docker?

- Install Docker
- Create Docker Image with Dockerfile
- Build the image
- Run it

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BlankOn Mascot

Install Docker

```
sudo curl -sSL https://get.docker.io/ | sh
```

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Dockerfile

```
$ sudo usermod -aG docker user

$ sudo apt install git

$ git clone https://github.com/samsulmaarif/docker-libreoffice.git

$ cd docker-libreoffice

$ ls
build.sh  Dockerfile  README.md  start-libreoffice.sh
```

Build Docker Image

```
$ docker build -t samsulmaarif/docker-libreoffice .
```

**Note the dot (.)
in the end of the line**

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OR pull it from Docker Hub

$ docker pull samsulmaarif/docker-libreoffice

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Run it

```
$ docker run  -v $HOME/Documents:/home/libreoffice/Documents:rw \
      -v /tmp/.X11-unix:/tmp/.X11-unix \
      -e uid=$(id -u) \
      -e gid=$(id -g) \
      -e DISPLAY=unix$DISPLAY \
      --name libreoffice \
      samsulmaarif/docker-libreoffice
```

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LibreOffice (pada 7113749ab5fd)

File   Tools   Help

📁 Open File

📁 Remote Files

🕐 Recent Files ▼

📄 Templates ▼

Create:

📄 Writer Document

📊 Calc Spreadsheet

📰 Impress Presentation

📐 Draw Drawing

🧮 Math Formula

🗄 Base Database

Welcome to LibreOffice.

Drop a document here or pick an app from the left side to create one.

Help   Extensions

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THANK YOU!