

Vision



Co-Creating a Technology Advanced Greener Planet

Mission ESDS 4 B's

by 2027

1Billion

1Billion

Connecting a billion people

Connecting a billion
Smart Devices

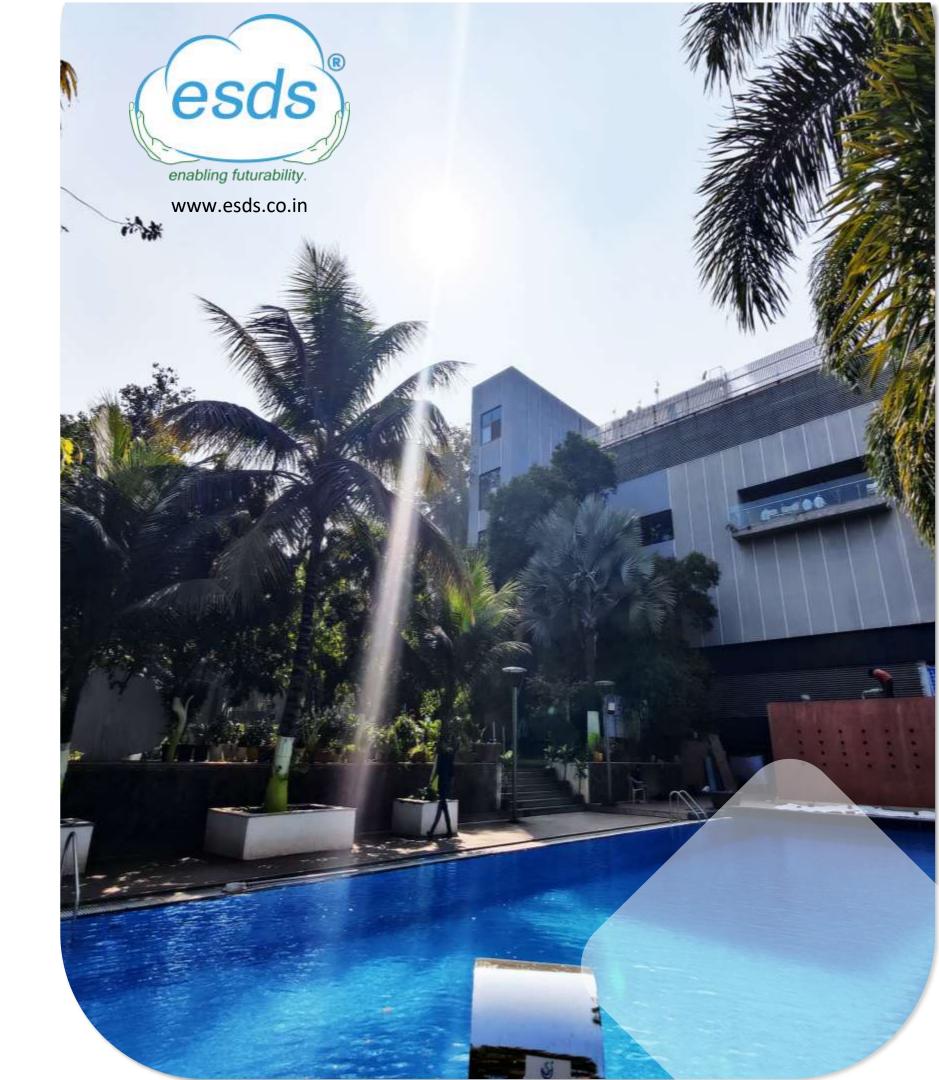
1Billion

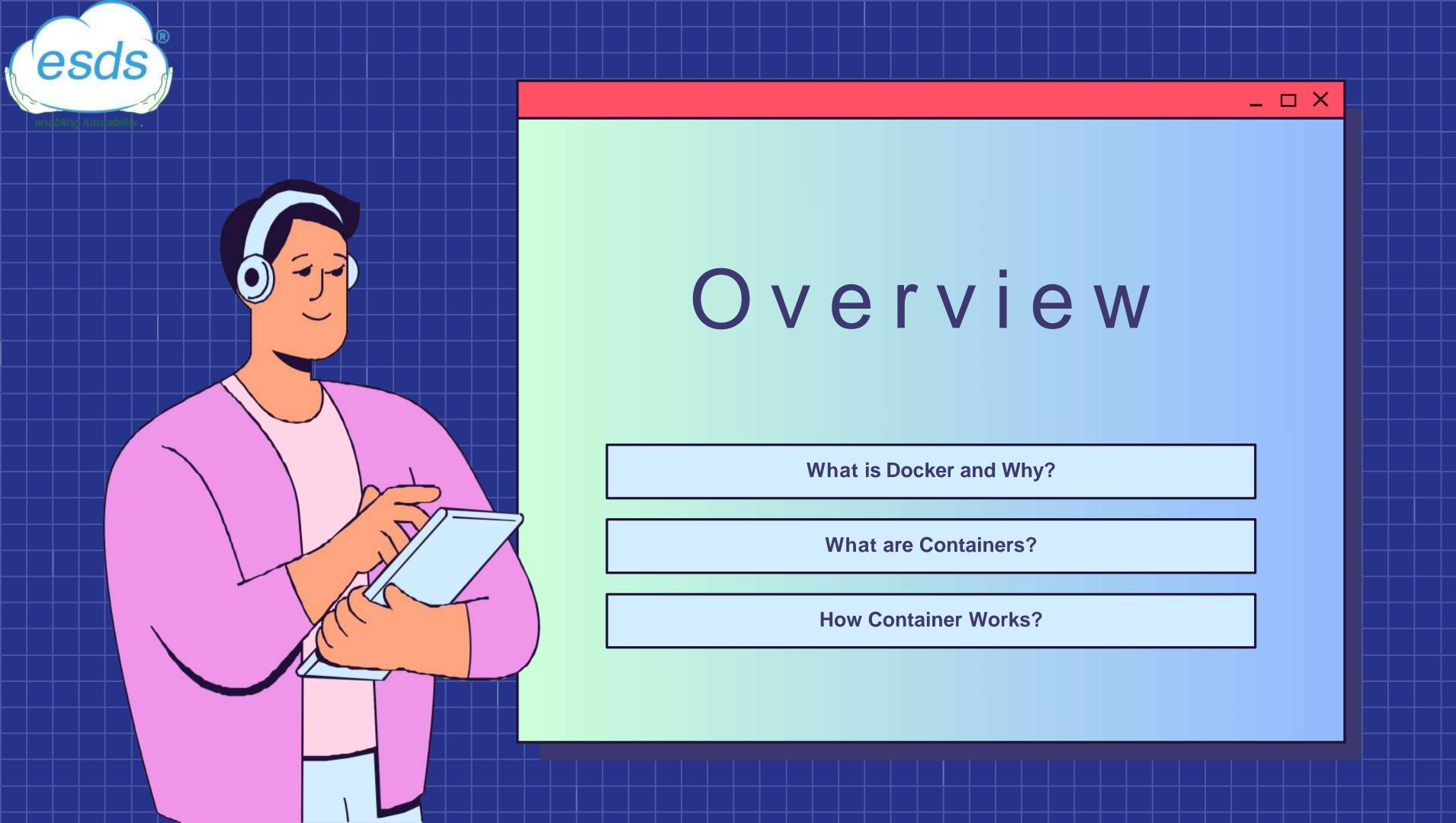
Achieving \$1B turnover

1 Billion

Planting 1 Billion trees

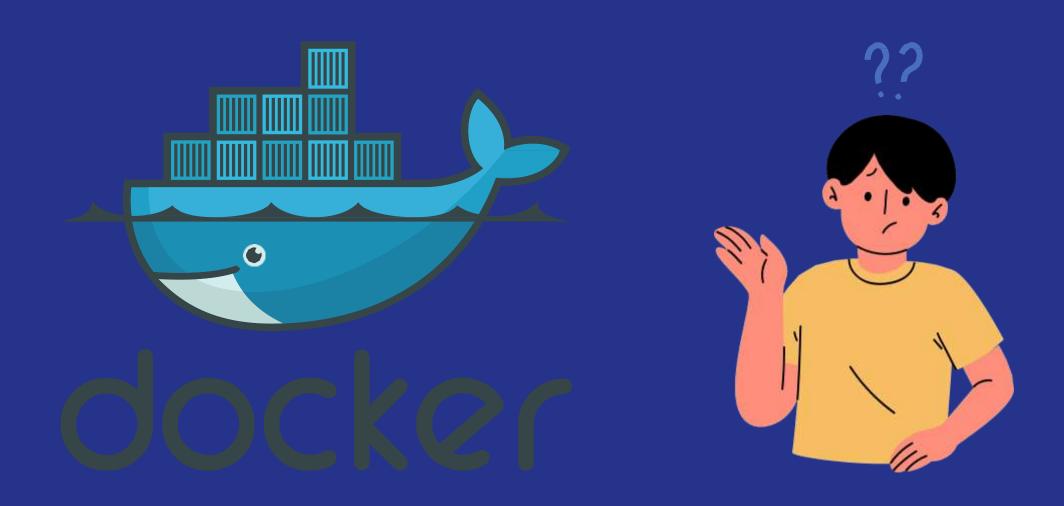








What is a Docker?





What is a Docker?

 Docker is a containerization platform for developing, packaging, shipping, and running applications.

- It provides the ability to run an application in an isolated environment called a container.
- Makes deployment and development efficient.



Why do we need Docker?

















```
if ($(window).scrollTop() > header1_initialDistract()
    header1.css('padding-top', '' | header1_initialDistract()
}
} else {
    header1.css('padding-top', '' | header1_initialDistract()
}

if ($(window).scrollTop() > header2_initialDistract()
}
if (parseInt(header2.css('padding-top', '' | header2_initialDistract()
    header2.css('padding-top', '' | header2_initialDistract()
    header2.css('padding-top', '' | header2_initialDistract()
    header2.css('padding-top', '' | header2_initialDistract()
    header3_initialDistract()
    he
```



Working Successfully









Working Successfully

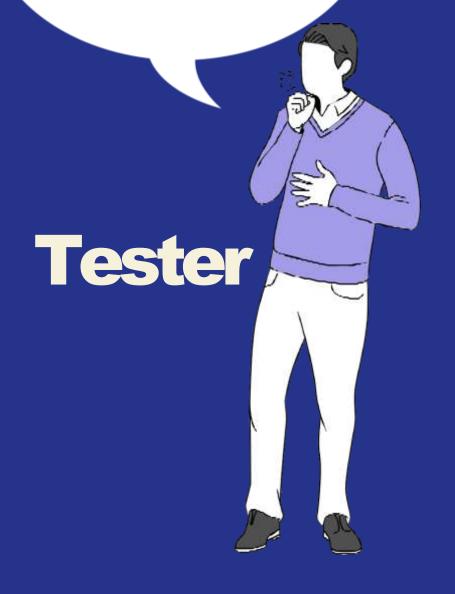








Let me test on my machine















Tester













Tester









But it is working on my machine





Tester

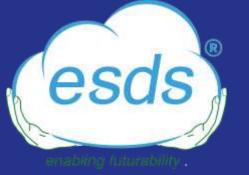


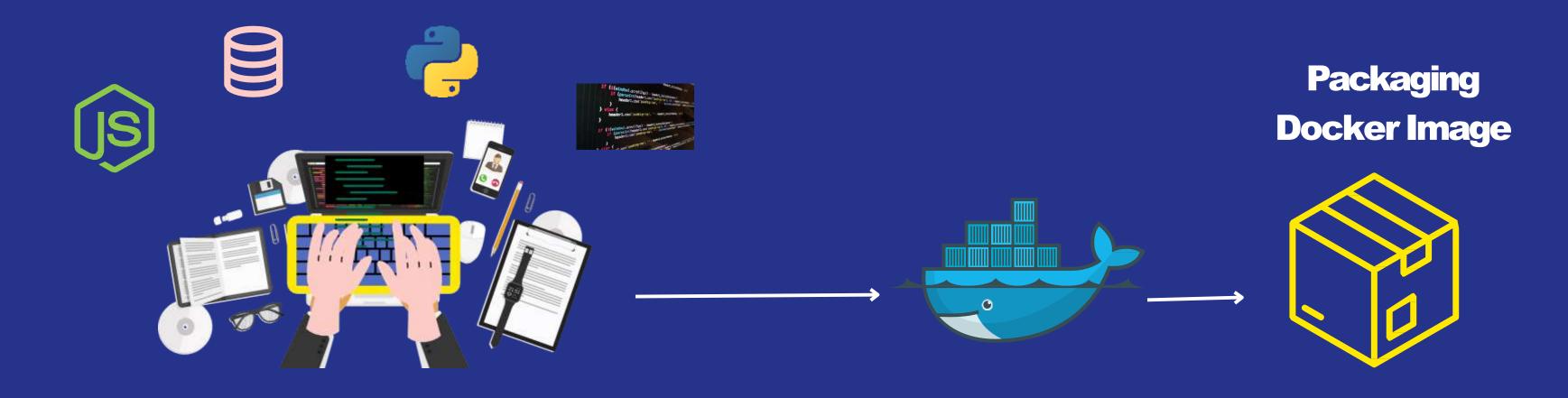


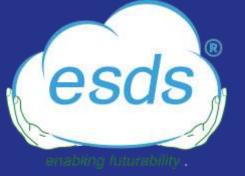














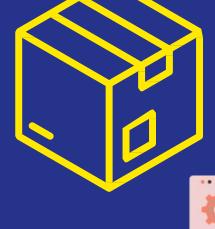




















Tester

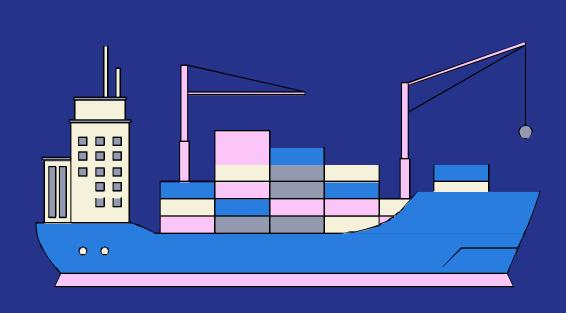






What is a Container?

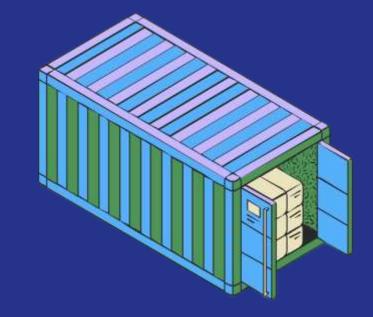








What is a Container?



- A way to package an application with all the necessary dependencies and configuration.
- It can be easily shared
- Makes deployment and development efficient.



Container

APP1

Lib, Dependencies, **Tools**

Docker Engine







Operating System





Hardware 🔔





Container

Container

APP1

Lib, Dependencies, Tools

APP2

Lib, Dependencies, Tools

Docker Engine







Operating System





Hardware 🔼





Container

Container

Container

APP1

Lib, Dependencies, Tools

APP2

Lib, Dependencies, Tools

APP3

Lib, Dependencies, **Tools**

Docker Engine







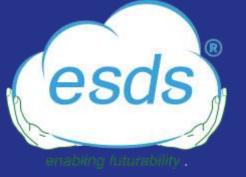
Operating System





Hardware 🔼





App1





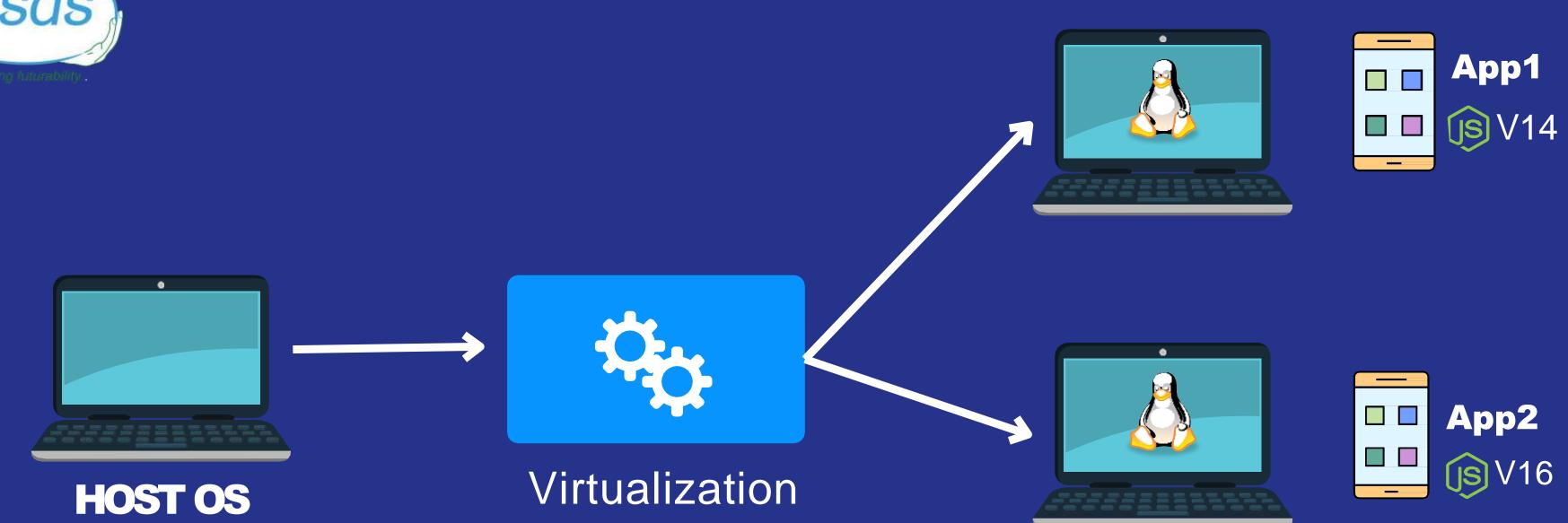
App2



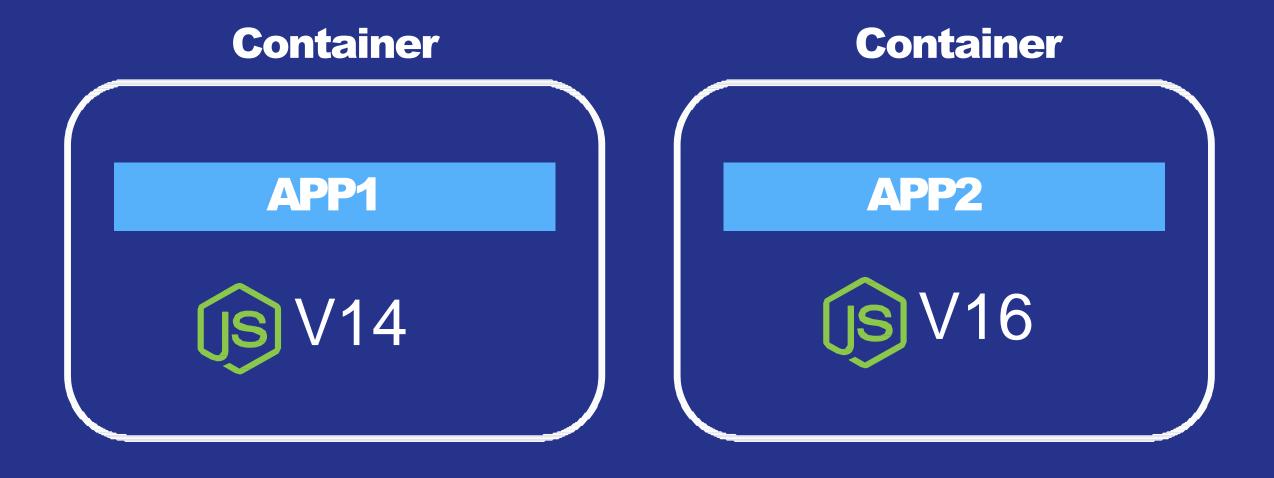


















Operating System





Hardware 🔔

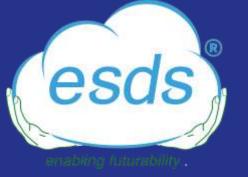




Docker vs VIVs

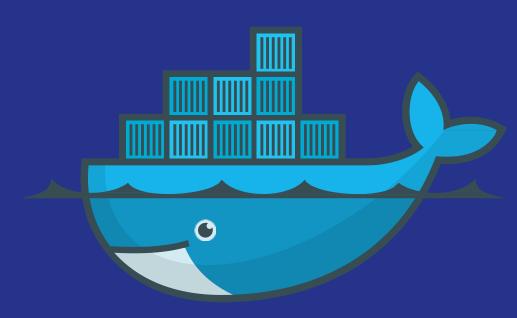


Docker Containers	VMs
Low impact on OS, very fast, low disk space usage	High impact on OS, slower, high disk space usage
Sharing, re-building and distribution is easy	Sharing, re-building and distribution is challenging
Encapsulate apps instead of whole machine	Encapsulate whole machine



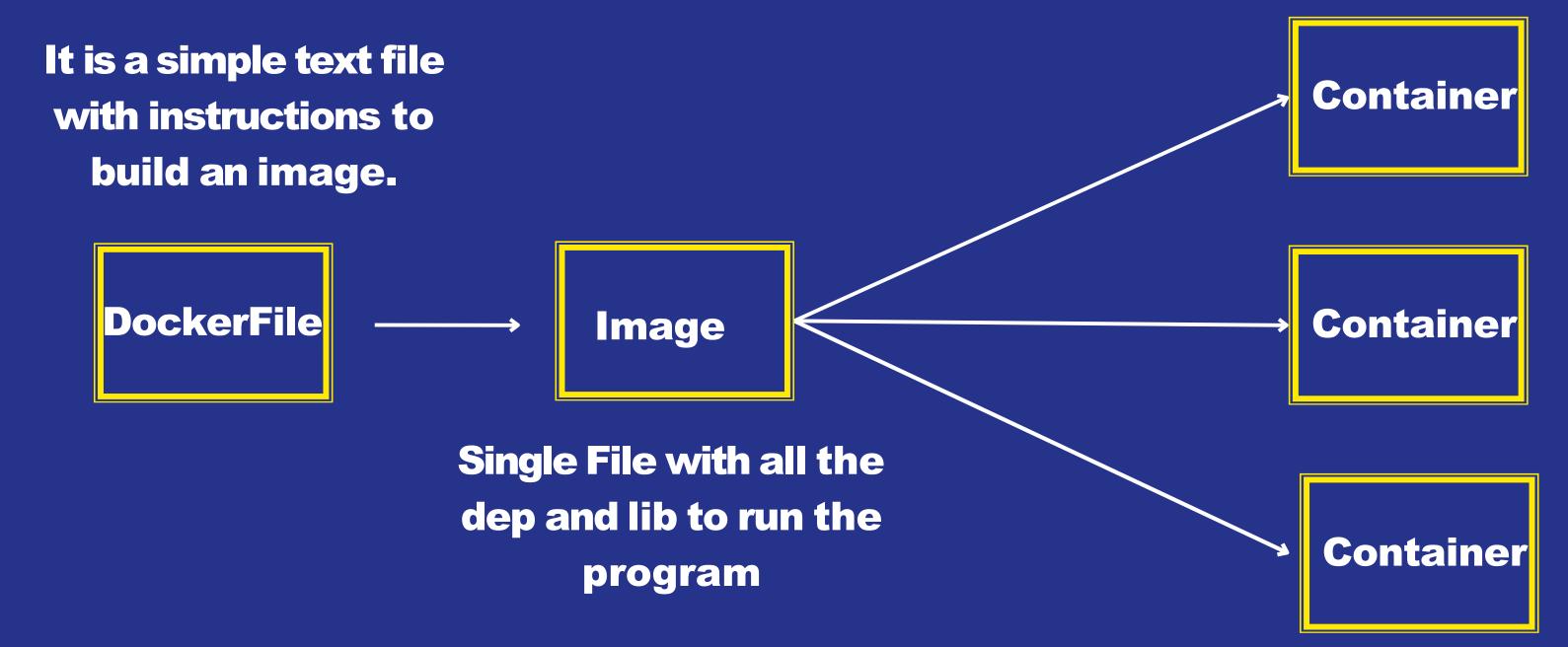
Main components of Docker

- DockerFile
- Docker Image
- Docker Container
- Docker Registry





Instance of an Image



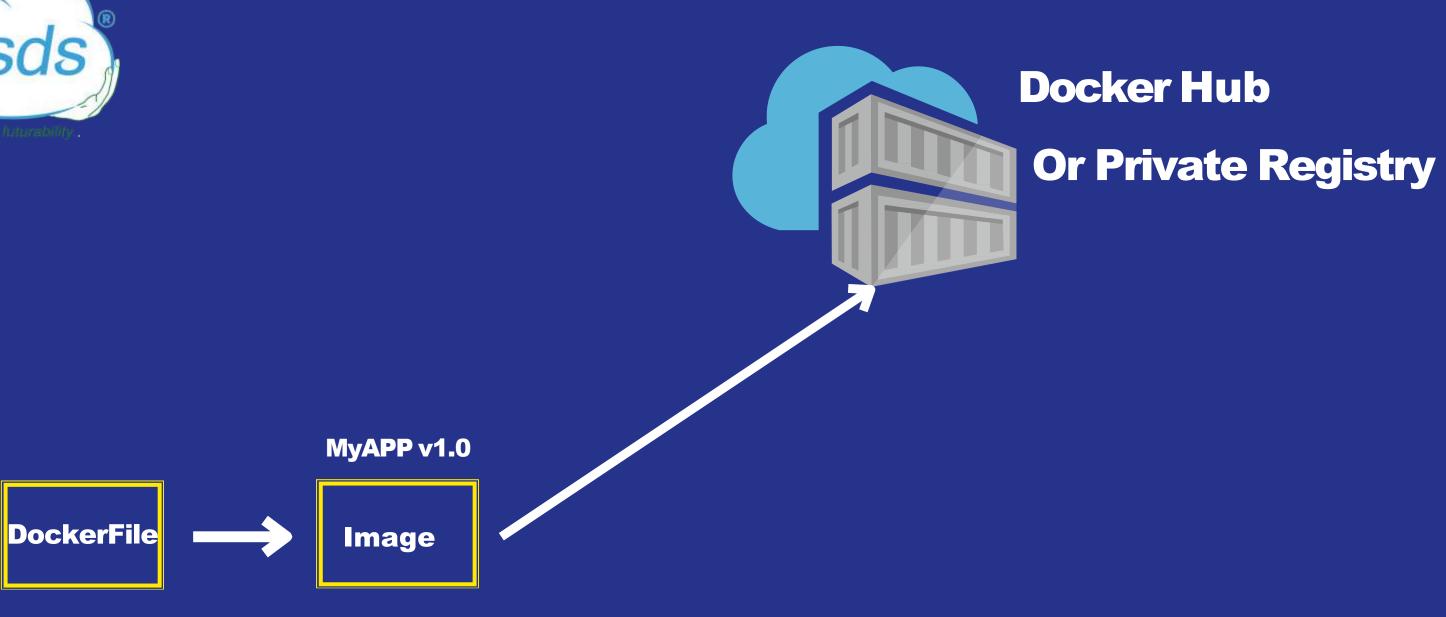


Docker Registry

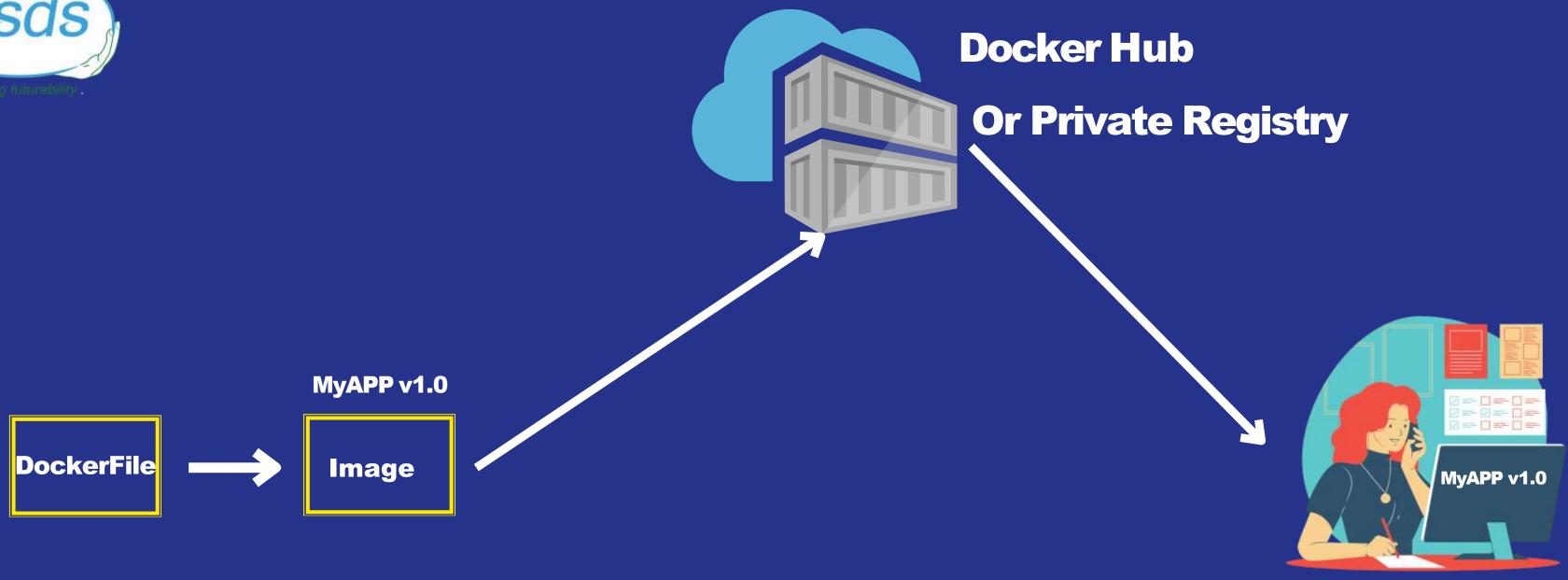
A Docker registry is a central repository for storing and distributing Docker images.













- Docker is a powerful technology that allows developers to create, package, and deploy applications in containers.
- It provides a consistent environment for development, testing, and deployment, and it's compatible with any platform that supports Docker.
- By using Docker, developers can focus on building great applications instead of worrying about infrastructure and compatibility issues.

Thank you!