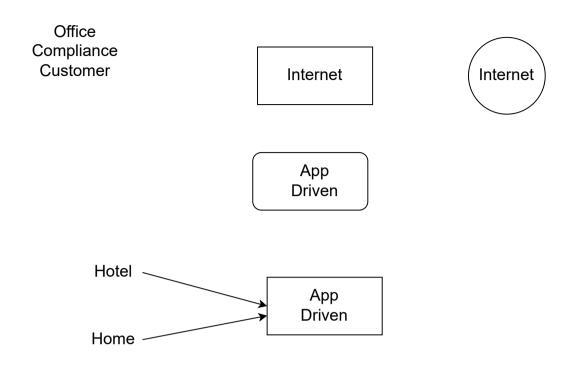
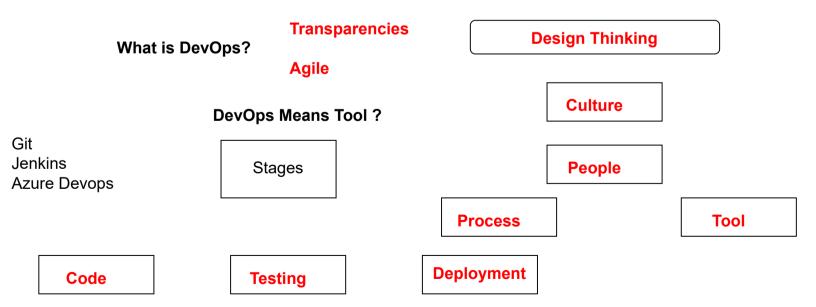
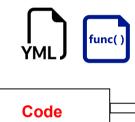
Why DevOps?
Why DevOps Now?

Collaboration ( No Cilo ) Speedup Release and Deployment Software Delivery Everything is code





- You need to Migrate one Customer Application on Microsoft Azure . Application include FrontEnd App
- SQL Database
- File Storage



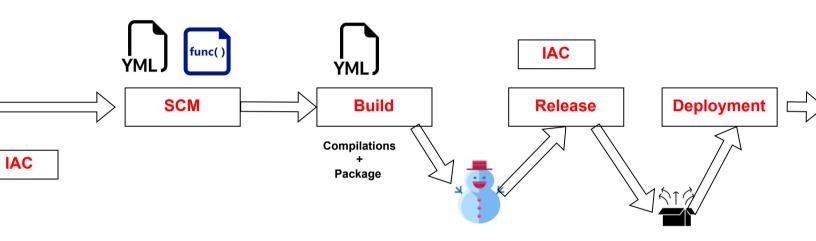
App Code



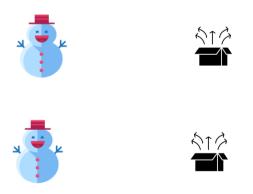


FEATURES

USER STORY



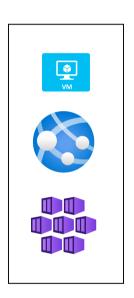
TASK



SCM

Centralized

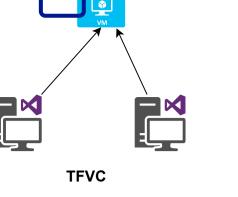


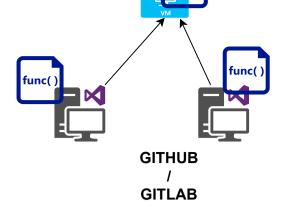


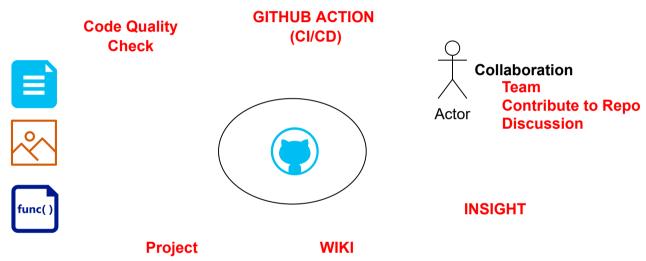
**Platform** 

Open browser in inc

- 1. Create New Hotm
- 2. Redeem your Azu
- 3. Login on Azure w

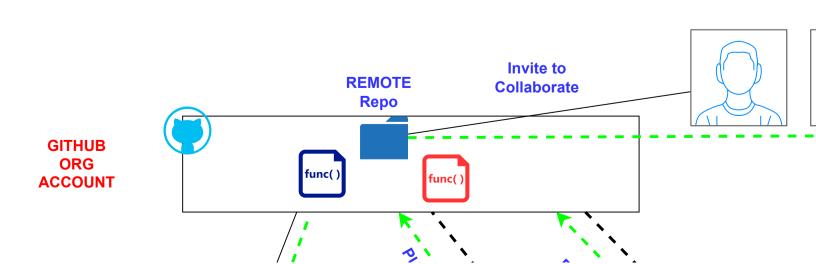


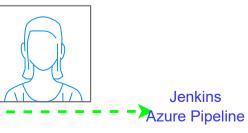


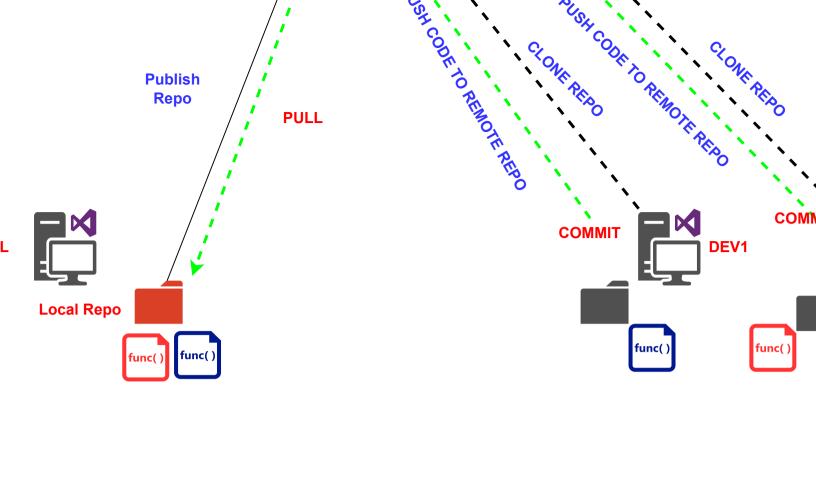


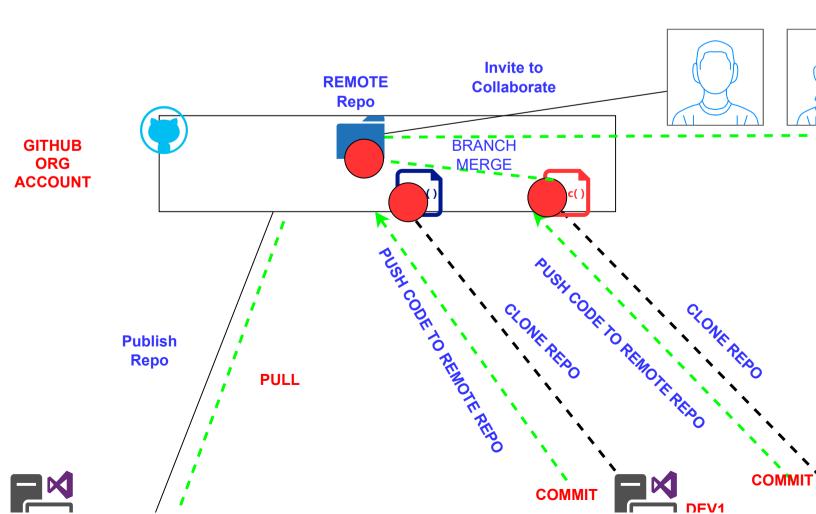
ognito/private mode ail/outlook account

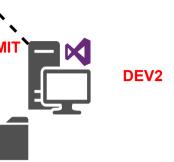
re pass on https://www.microsoftazurepass.com/ith your new account

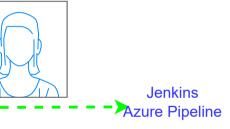






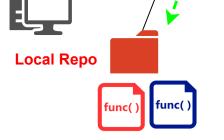


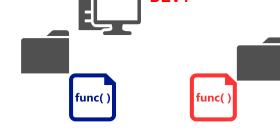




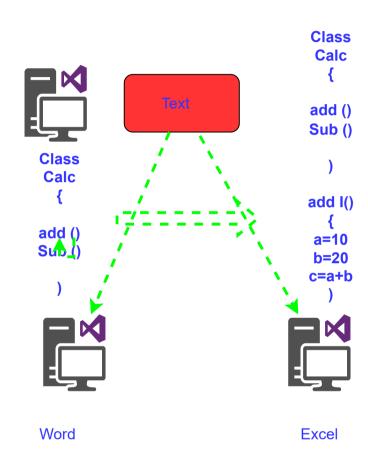
## A Custome Azure.

- Custo harde
- Custo
- App sWher





#### Calculator



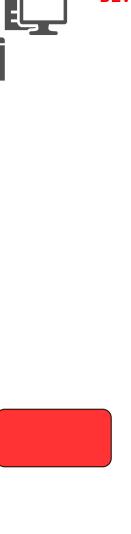
er has developed web app in Dotnet and customer want to host this app in Microso

omer to Install its own Antivirus on Backend server, customer also want to apply ening on backend.

omer want whenever code get change app should get automated updated.

should be deployed in different stages like Dev, UAT and Prodnever load increases on backend it should scale

Dud i /Dulti i



oft

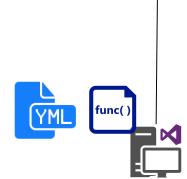
certain

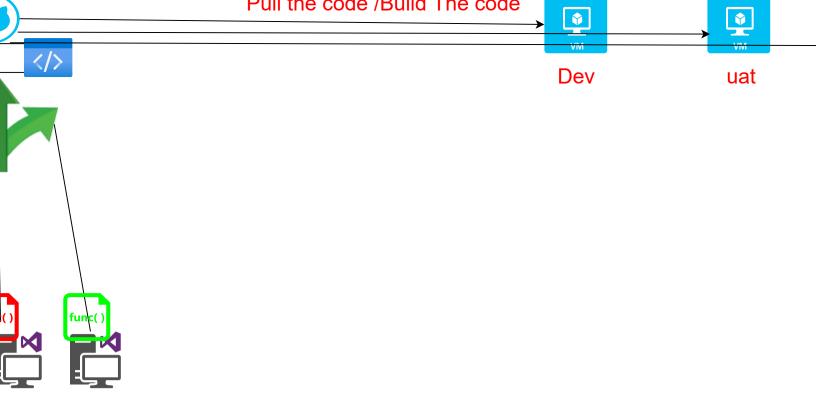


A Custo Azure.

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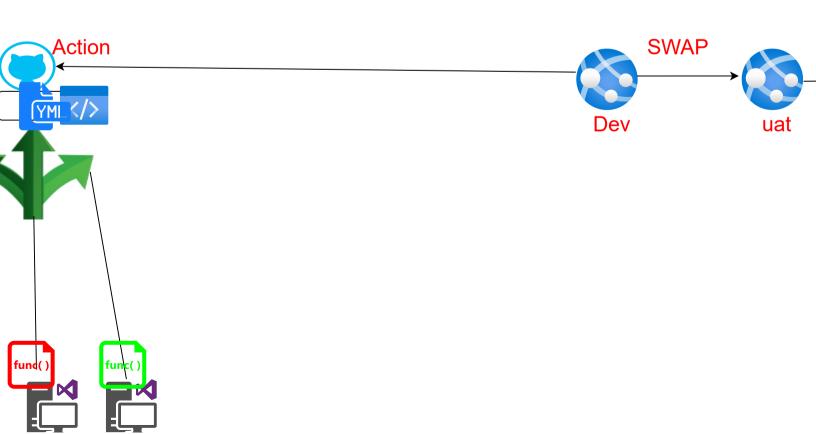
OS Compiler Build Solution File





omer has developed web app in Dotnet and customer want to host this app in Mic

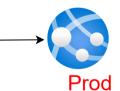
ustomer do not want to manage the Backend ustomer want whenever code get change app should get automated updated. pp should be deployed in different stages like Dev, UAT and Prod/henever load increases on backend it should scale





Prod

rosoft



## Standard

JSC

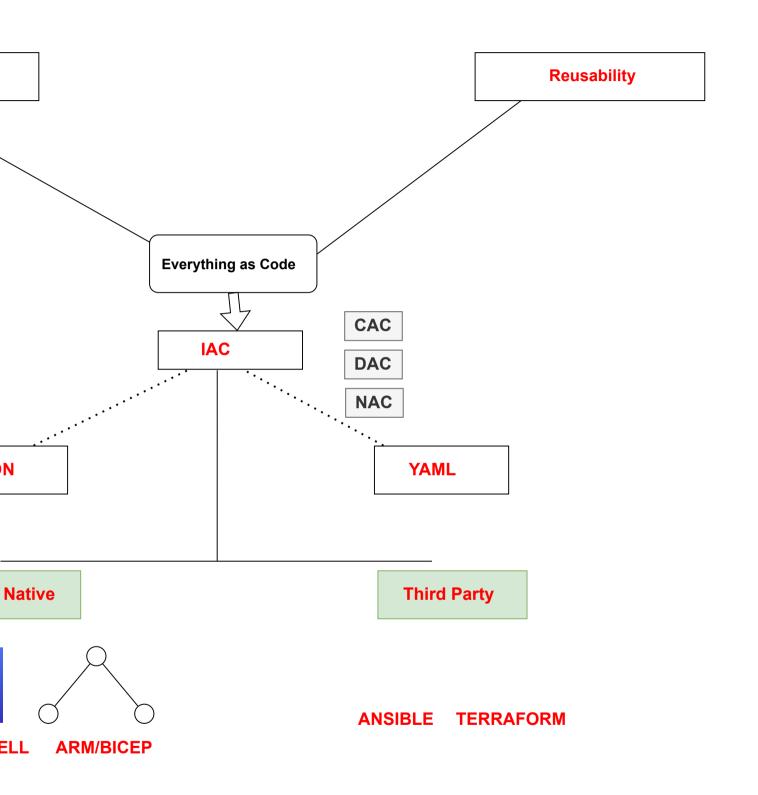
Azure





CLI

**POWERSH** 

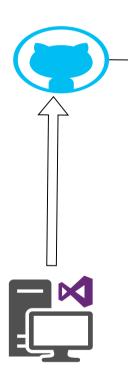






az group list az vm list vm netwok delete

az group create --



--output table

name ghghghgh --location eastus



Create an App with code from git

**ARM /BICEP** 

Resource Script Parameter Script

VMName = String VMImages =

rce = VM ne =

VMIma VMAdr VMAdr

- What R
- What all the value
- Sequent created
- Depend









## **ARM Donot Remember about its Pa**

DISK 128 SKU D2BS esource we need to create /Delete? I properties of the resource we will supply ıe? ce how resource components should get (in order) lencies az create deployment **EASTUS REGROUP RESOURCENAME** API API Terraform Maintain the history of its action in the past. st Action **DISK 128 TERRAFORM** SKU D2BS SIMPLE-VM ARM Resource File State File

**TFRRAFORM** 

TF

VMAdmin = String , 12 Charater

VMAdminPass=

ges =

nin = ninPass= EASTUS REGROUP RESOURCENAME

SIMPLE-VM

arameter File

Backup State File

INIT

Peruser : 6 \$-25\$

Parller Execution per sec

Management Group

Subscription

Resource Group

12Itto ti Oittii

LOCAL INSTALL

TERRAFORM CLOUD

**PLAN** 

**APPLY** 

**DESTROY** 

### **Azure DevOps Service**

- This is separate cloud service like Azure, o365,EMS,ERP
- This is separate licensed not by default part of Azure Licensed
- It has separate URL
  - o office.microsoft.com
  - o portal.azure.com
  - dev.azure.com
  - Azure DevOps can also integrate with Azure AD for Auth and Auth
  - To get the server we need azure for build and release
  - It is cloud version of TFS
  - Azure DevOps can manage any cloud platform

Project1

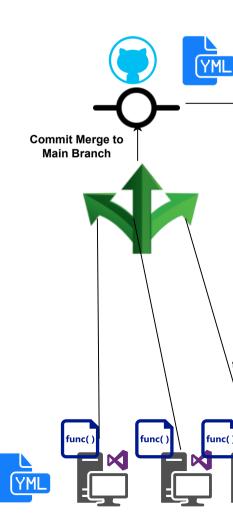


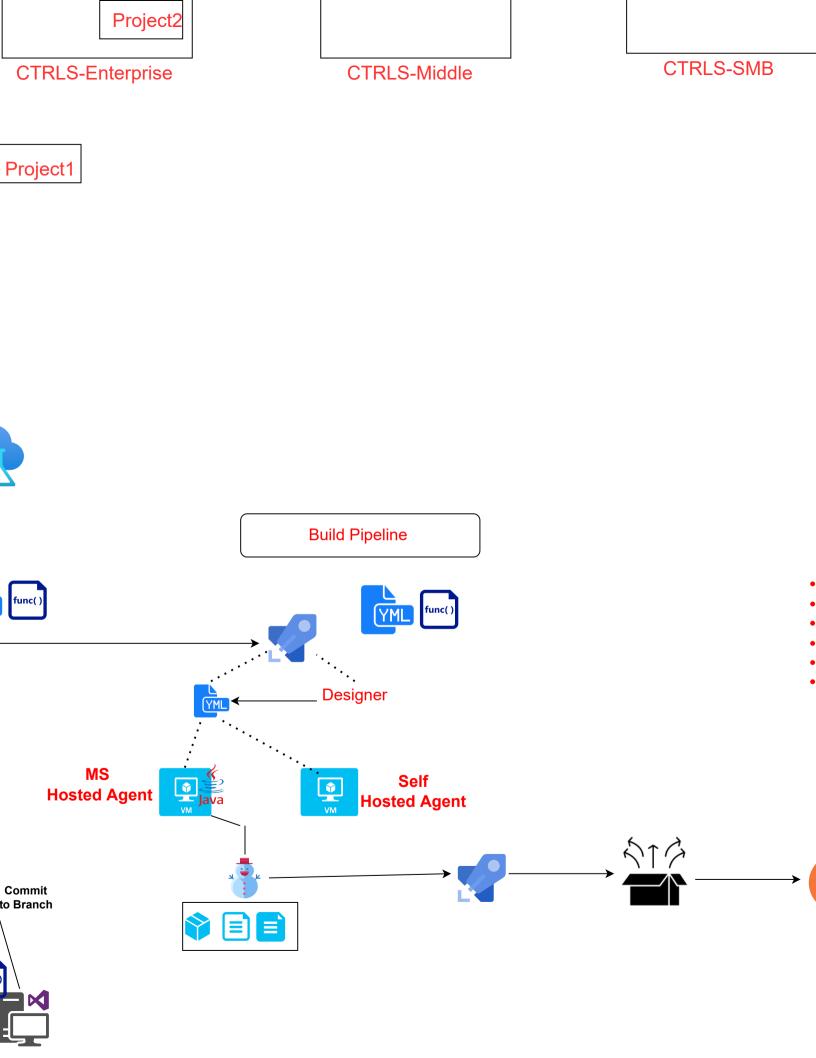




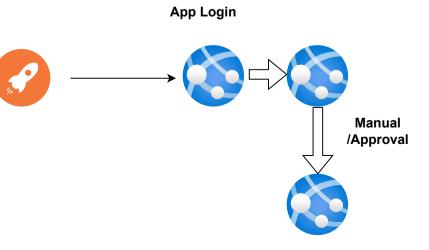




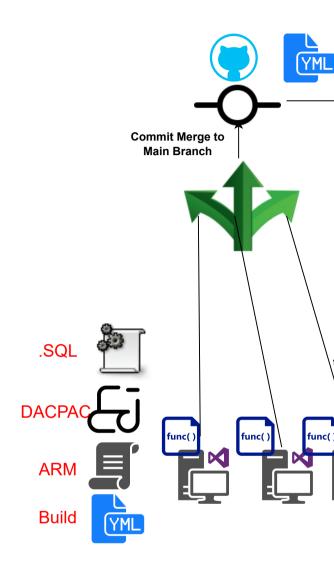




Where is the Code?
Which version (Dotnet 3/5)
Sequence in which code need to compile
Which OS this code can compile
Which all packages we need to read(Nuget)
Which package creation tool (msbuild /maven)

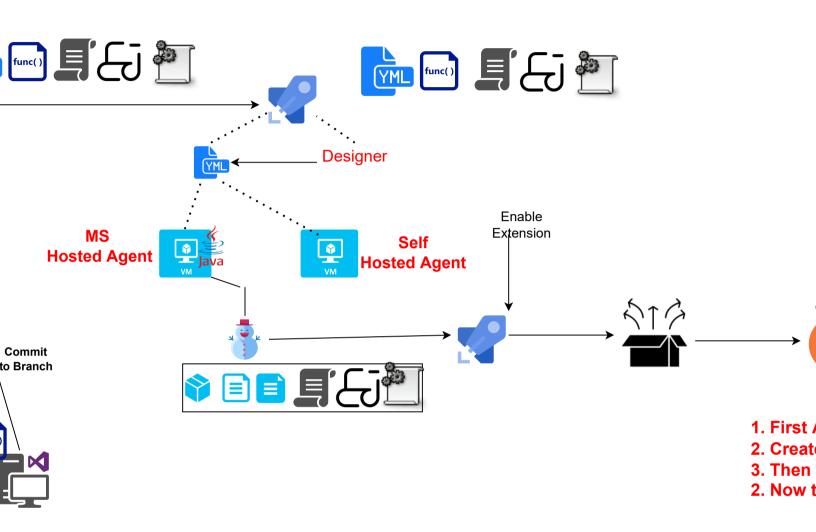


#### • Customer v

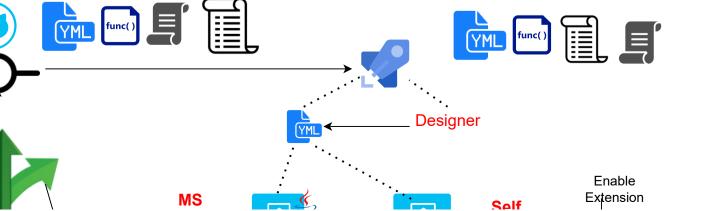




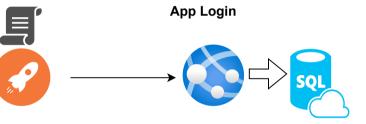
vant to deploy Dotnet Code to azure app with SQL as backend . They want all required infra to be created a



Customer want to deploy Java Code to Kubernetes . They want all required infra to be created and manage

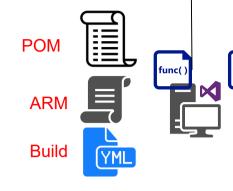


and managed by dev team.



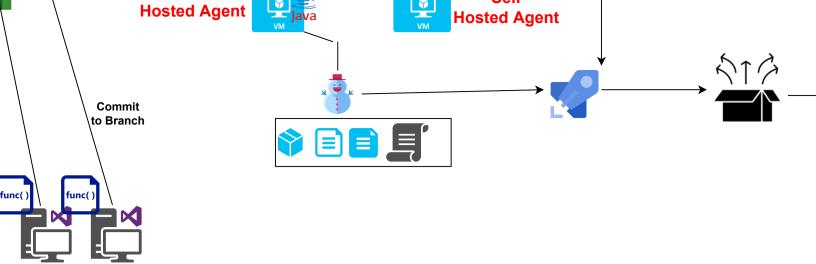
ARM Execute and Create infra e SQL Database in SQL Server Create SQL Table in SQL Database they Copy the AppCode.

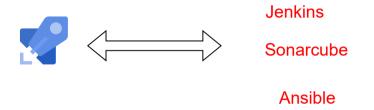
ged by dev team.



Azure DevOps Star

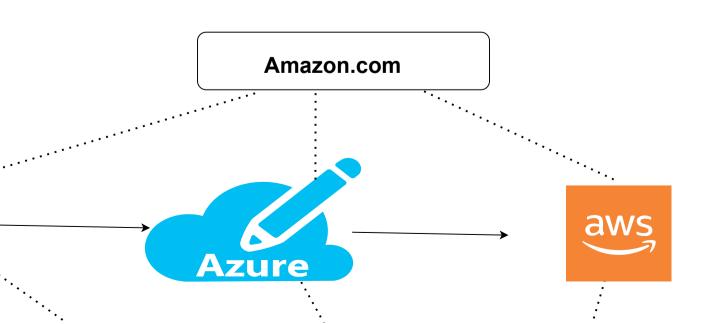






ter

Azure DevOps Handson Azure DevOps Demo Generator



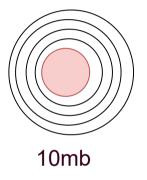


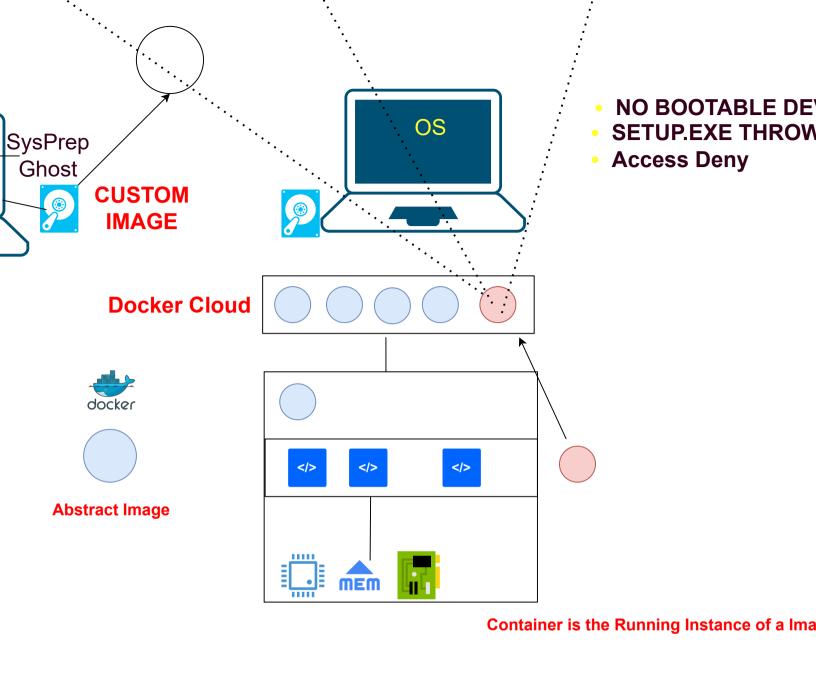
- 1. First ARM Execute and Create infra
- 2. Now they Copy the AppCode.

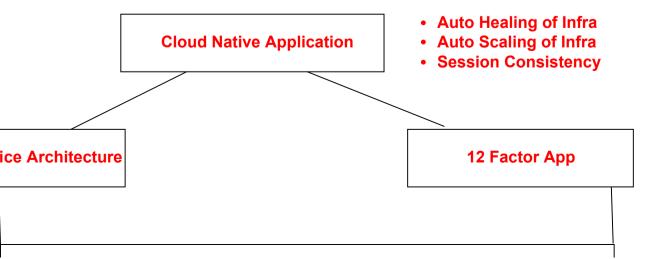




# **IMAGE**







## VICE FOUND / ERROR

ge

- It is used for Low 1
- It does not support



Maste

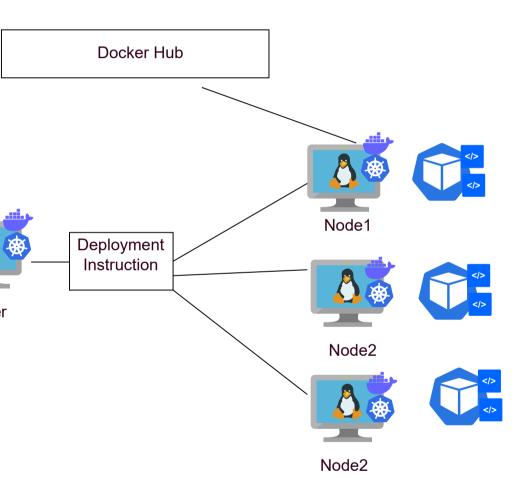




ouched App / Testing App
Autoscaling / Autohealing



- It is for Critical Application workload
- It support Autoscaling
  - Container Autoscaling
  - Node Autoscaling
- It support Autohealing
  - 1. Kubernetes service is free , you will o of nodes.
  - You not need to Manage the Kubernetes



nly pay for the compute of no

Master Node