



# FIAP

AULA 0

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Welcome to the next evolution in higher education.

# BEM VINDOS

PRÓ REITOR  
**WAGNER SANCHEZ**





COORDENADOR  
**RAFAEL RONQUI**

 [profrafael.ronqui@fiap.com.br](mailto:profrafael.ronqui@fiap.com.br)



# NOSSAS AULAS

# HORÁRIOS DE AULA TECNOLOGOS

Horário Manhã:

Primeira Aula : 7:40 às 9:40

Intervalo : 9:40 às 10:00

Segunda Aula: 10:00 às 12:00

Horário Noite:

Primeira Aula : 19:00 às 21:00

Intervalo : 21:00 às 21:15

Segunda Aula: 21:15 às 23:15

# CRITÉRIOS DE AVALIAÇÃO

PROJECT CHECK POINT  
CHALLENGE AND  
FEEDBACKS

40%

1 SEMANA DE FEEDBACK

GLOBAL SOLUTION

60%

1 SEMANA DE FEEDBACK

PROJECT CHECK POINT  
CHALLENGE AND  
FEEDBACKS

40%

1 SEMANA DE FEEDBACK

GLOBAL SOLUTION

60%

1 SEMANA DE FEEDBACK

Primeiro Semestre = 40%

Segundo Semestre = 60% 

MODELO AVALIATIVO ANUAL



PROVAS

# SUBSTITUTIVAS

Caso o aluno perca alguma etapa da avaliação  
**Global Solution e Exame**, poderá solicitar uma  
avaliação **SUBSTITUTIVA**



# CRITÉRIOS DE APROVAÇÃO

A Média Anual (MA), será obtida pela média das duas Médias Semestrais.

$$\text{MA} = (40\% \times \text{MS 1º semestre} + 60\% \times \text{MS 2º semestre})$$

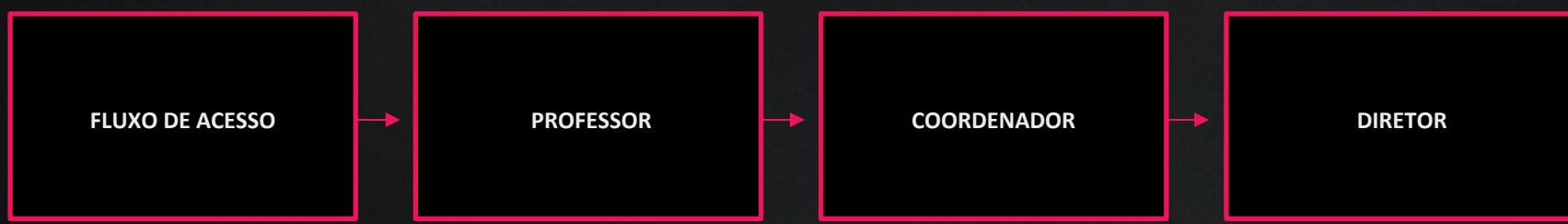
Os critérios de aprovação baseiam-se na média semestral (para cursos semestrais) ou na média anual (para cursos anuais) obtida pelo aluno, conforme tabela abaixo:

MÉDIA FINAL (ANUAL OU SEMESTRAL)	SITUAÇÃO
0,0 a 3,9	Reprovado
4,0 a 5,9	Exame
6,0 a 10,0	Aprovado



Caso o aluno fique de Exame, a nota necessária  
para a sua aprovação passa a ser:

**Nota para aprovação no Exame = (12 – Média Final)**



# CONTATOS

## SECRETARIA

[helpcenter@fiap.com.br](mailto:helpcenter@fiap.com.br)

---

## FINANCEIRO

[financeiro@fiap.com.br](mailto:financeiro@fiap.com.br)

---

## HELP DESK

[helpdesk@fiap.com.br](mailto:helpdesk@fiap.com.br)

---

## CARREIRAS

[talentlab@fiap.com.br](mailto:talentlab@fiap.com.br)

# CONTATOS

HELP DESK

11 98170-0028



BEM VINDOS  
AO  
FUTURO

```
SELECT love  
FROM world;  
( sem cláusula WHERE )
```

# APRESENTAÇÃO DO PROFESSOR

```
[~]$ whoami
```

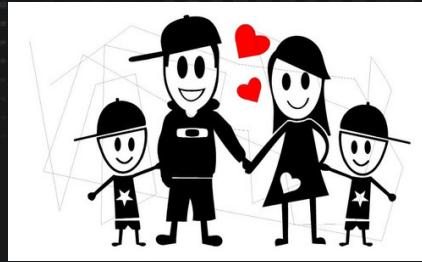
```
{  
  "nome": "João Carlos Menk Junior",  
  "idade": 53,  
  "profissao": [  
    "Arquiteto de Software",  
    "Modelagem e Administração de Banco de Dados",  
    "Professor na FIAP": [  
      "Banco de Dados",  
      "Desenvolvimento de Sistemas",  
      "Sistemas para Internet",  
      "Engenharia Mecatrônica"  
    ]  
  ],  
  "formacao": [  
    "Pós Graduado em Arquitetura de Software - FIAP",  
    "Graduado em Computação - MACKENZIE"  
  ],  
  "certificacoes": [  
    "Oracle",  
    "Azure"  
  ],  
  "experiencia": [  
    "34 anos em TI",  
    "Banco de Dados",  
    "DevOps",  
    "Cloud",  
    "Gestão (Scrum)",  
    "Transformação Digital",  
    "Oracle EBS"  
  ]  
}
```

Colégio Castro Alves  
Zeus informática  
Polengui do Brasil  
Conselho Regional de Medicina  
Casas Pernambucanas  
Allianz  
FIAP  
Procwork  
Ultrapar



# MENK

- Casado, dois filhos
- Tecnologia, música, jogos, pessoas





Apresentação  
da  
Disciplina

# *DevOps Tools & Cloud Computing*

João Carlos Menk Junior  
[profjoao.menk@fiap.com.br](mailto:profjoao.menk@fiap.com.br)

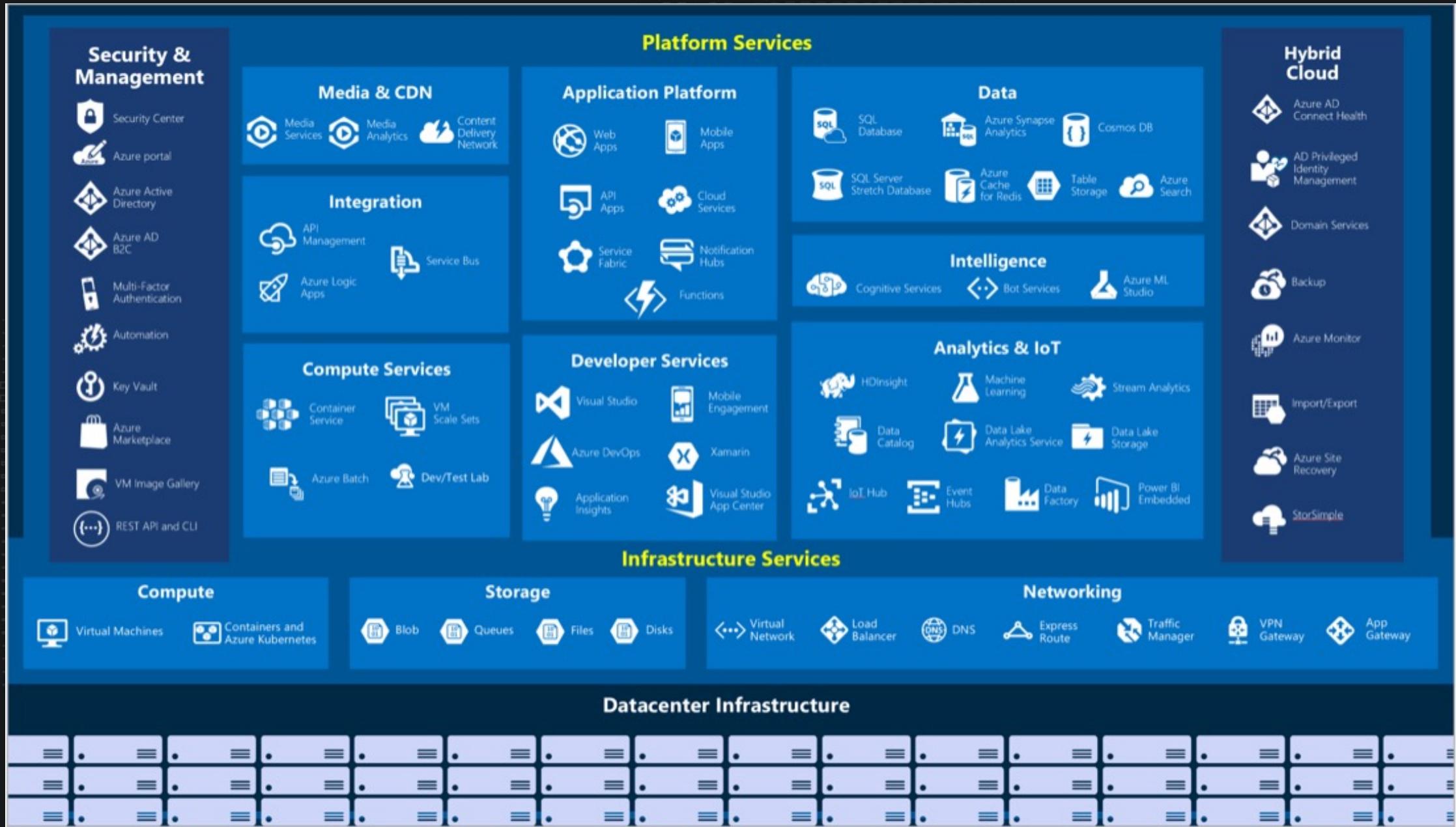
Salvio Padlipskas  
[salvio@fiap.com.br](mailto:salvio@fiap.com.br)

# *DevOps Tools & Cloud Computing*

João Carlos Menk Junior  
[profjoao.menk@fiap.com.br](mailto:profjoao.menk@fiap.com.br)

Salvio Padlipskas  
[salvio@fiap.com.br](mailto:salvio@fiap.com.br)

# Microsoft Azure



Nossa jornada...

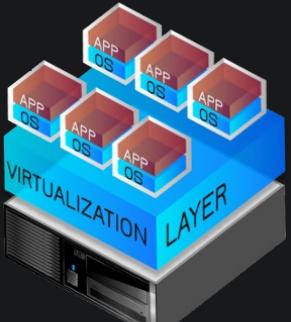
# DevOps & Cloud







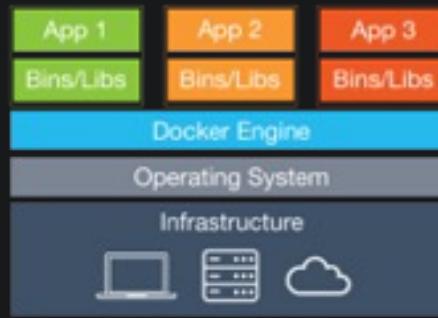
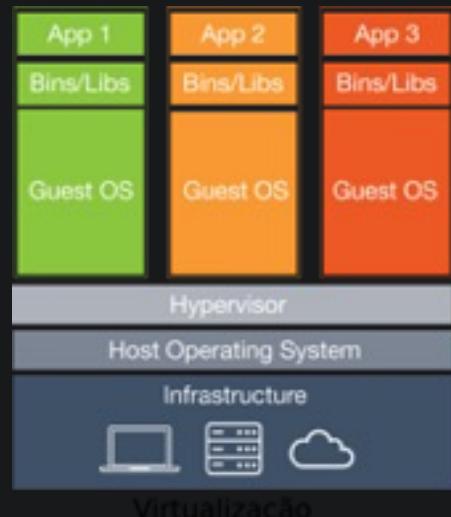
Traditional Server Architecture



Virtualized Server Architecture



## O que é? Como funciona?



Ferramentas



>  
SSH

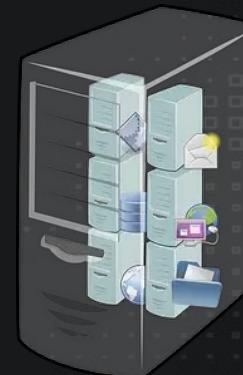


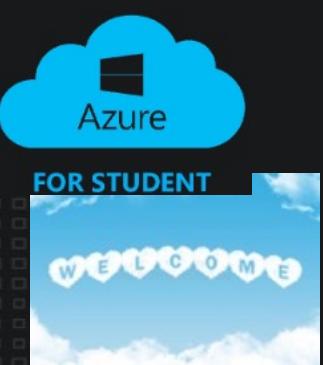
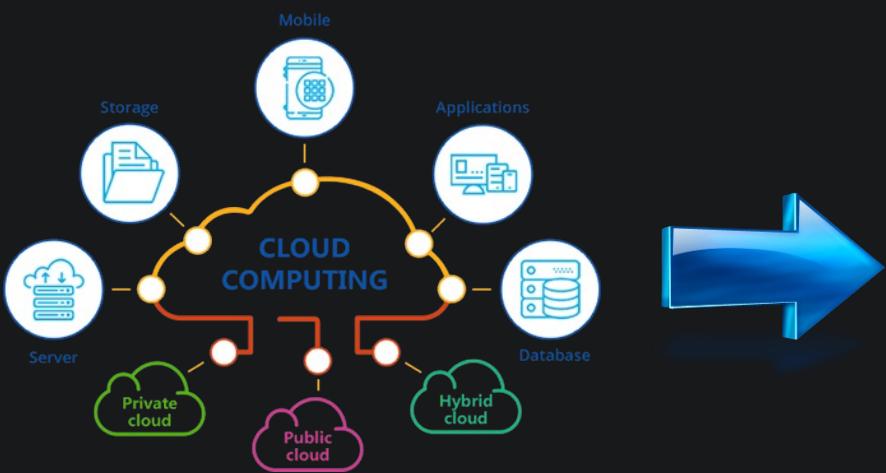
## Criação de um Servidor Virtual Oracle Linux (RHEL) On-premisse

### Comandos básicos no Linux

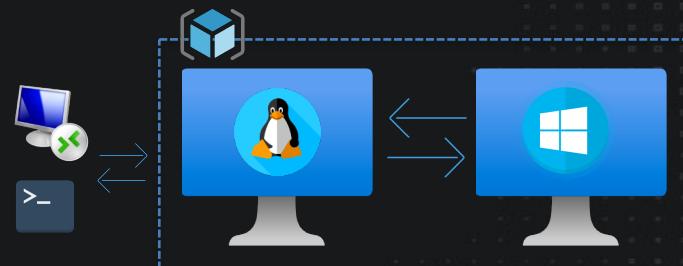
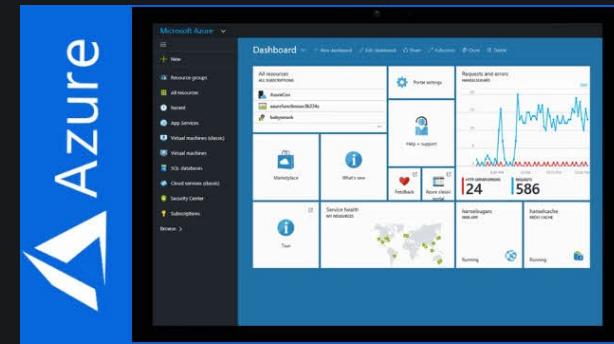
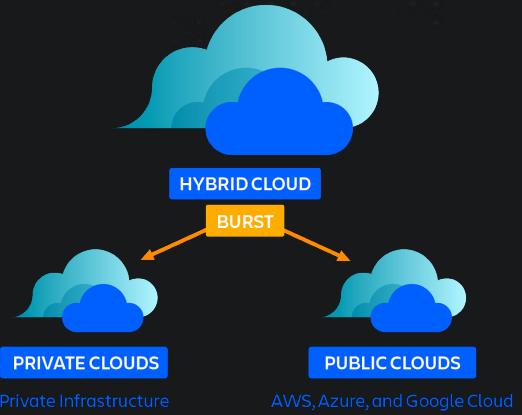
Docker

Docker Compose

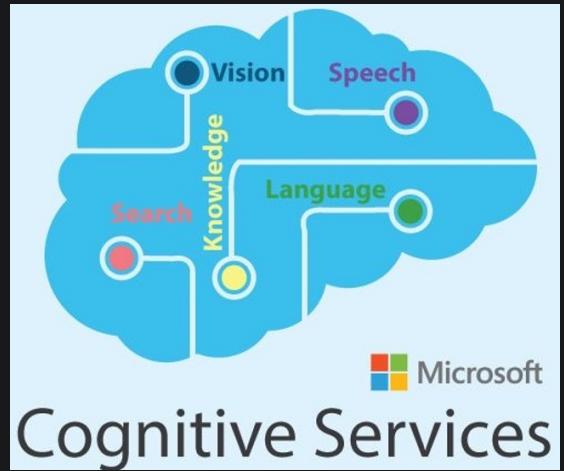




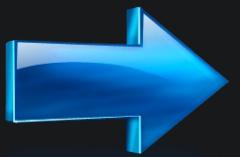
## O que é? Como funciona?



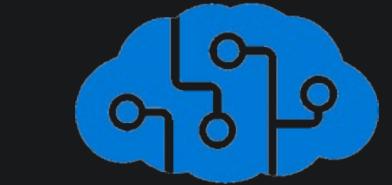
Conhecendo a Microsoft Azure  
Pricing Calculator  
Criando VMs em Nuvem – Linux - IaaS  
Criando VMs em Nuvem – Windows - IaaS



Cognitive Services



O que é? Como funciona?



Vision



Speech



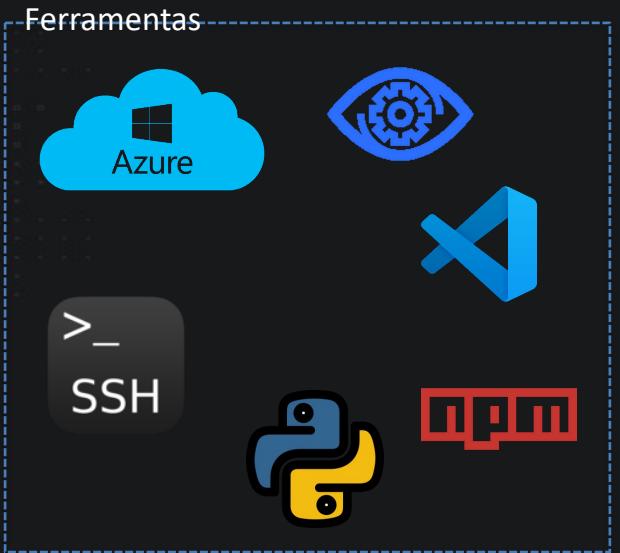
Language



Decision



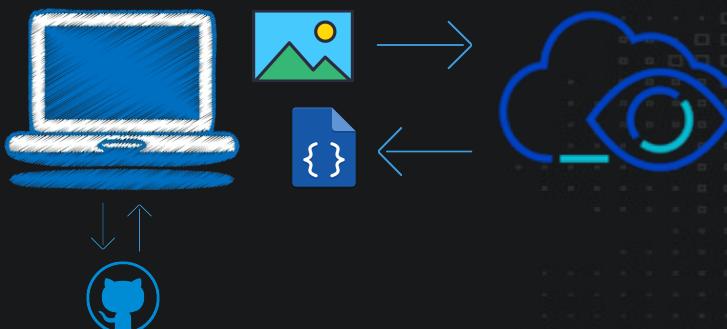
Web Search



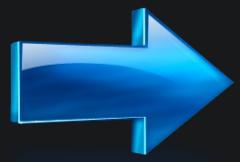
Utilizando Computer Vision da Azure - PaaS:

Projeto 01 - Python

Projeto 02 - JS



Microsoft Azure  
IoT Hub



O que é? Como funciona?

Ferramentas



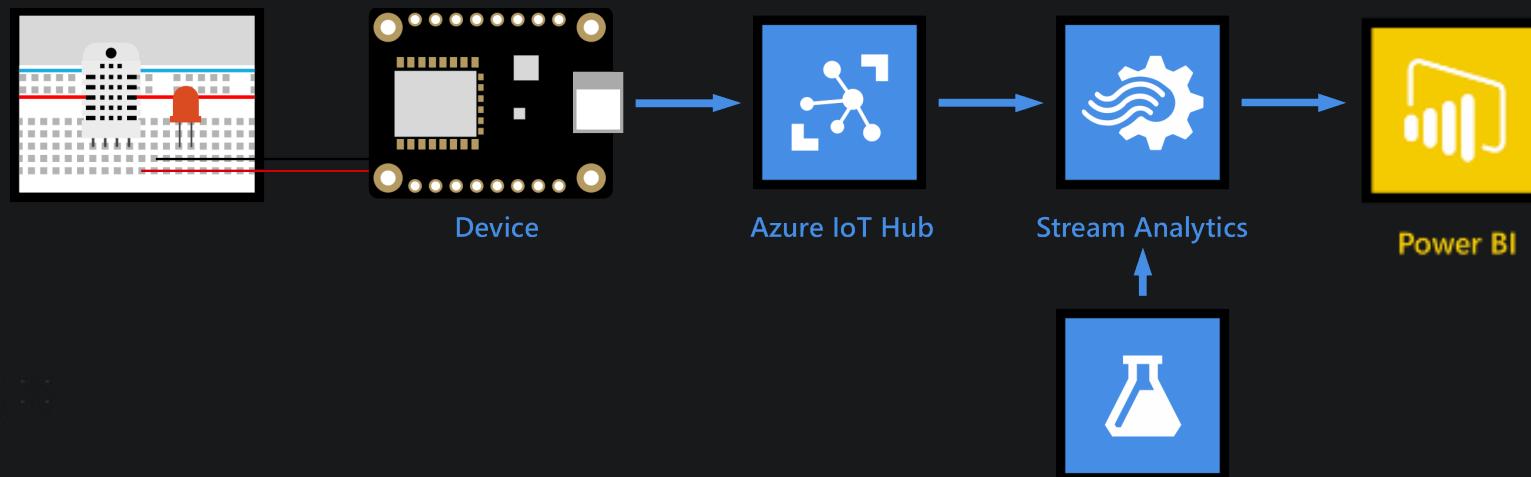
Azure IoT Hub



Stream Analytics



Power BI



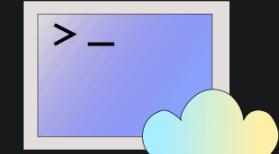
Projeto IoT Hub - PaaS

Machine Learning

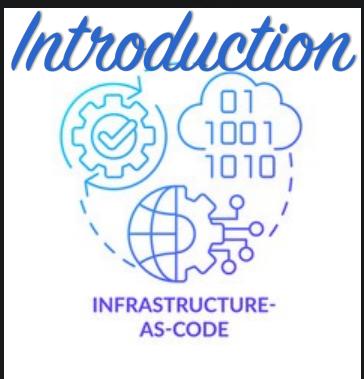
Ferramentas



AZURE CLOUD SHELL



O que é? Como funciona?

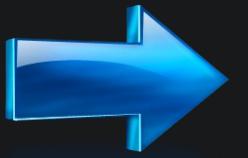


Azure CLI

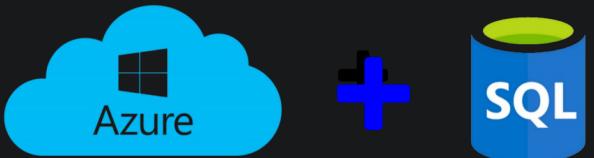


Cloud Infrastructure

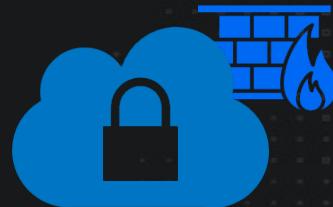




O que é? Como funciona?



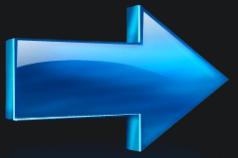
Ferramentas



Banco de Dados Relacional em Nuvem - PaaS



Web App



O que é? Como funciona?



Serviços de Aplicativos - PaaS/SaaS:

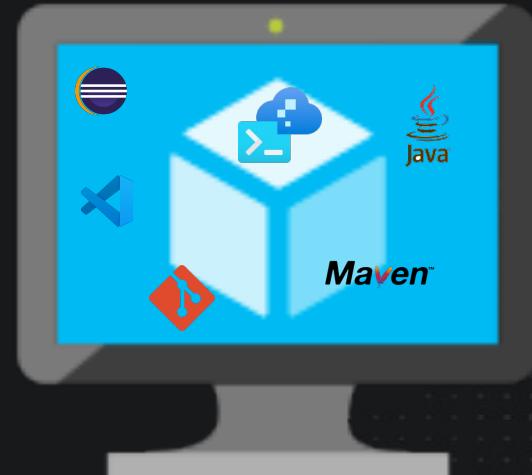
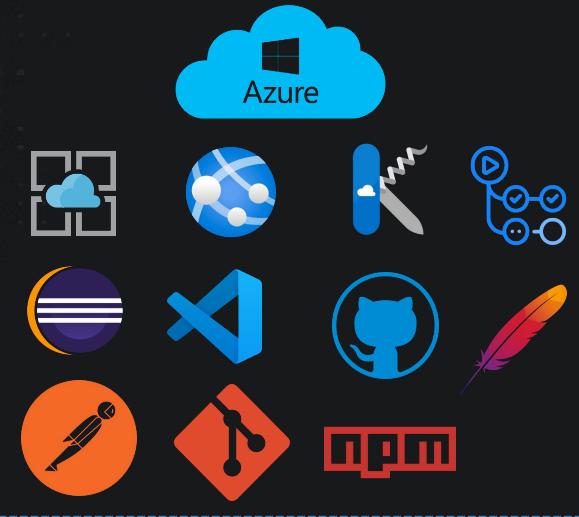
Java Spring Boot com Front

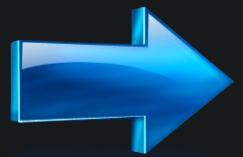
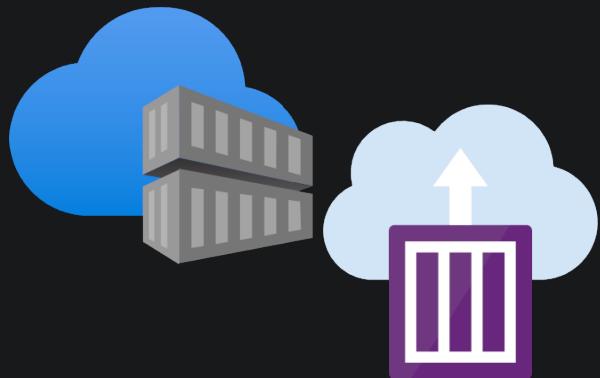
NodeJS / ReactJS com Front

.NET com Front

Java Spring Boot API (BackEnd)

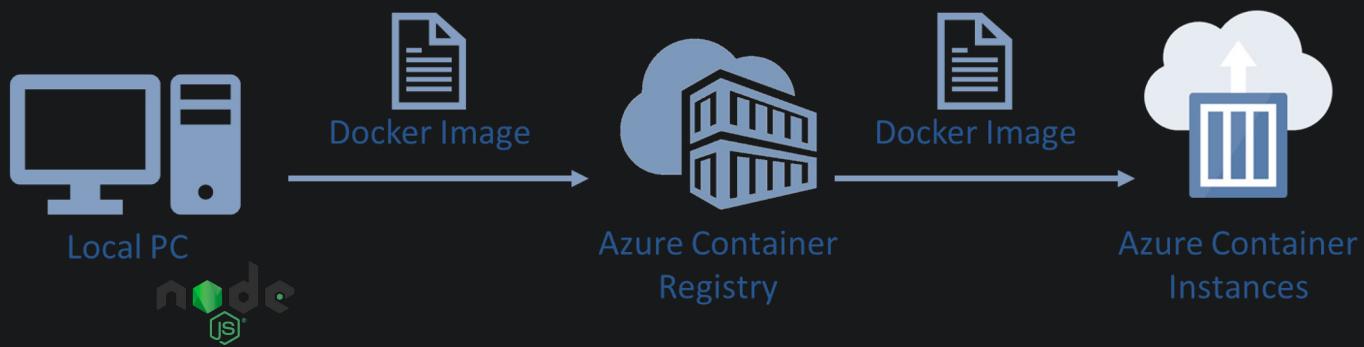
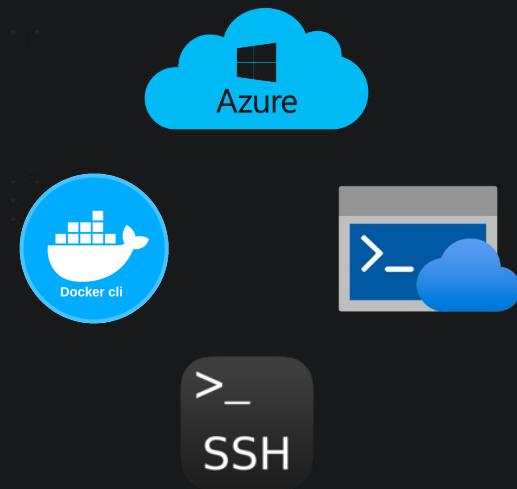
Ferramentas



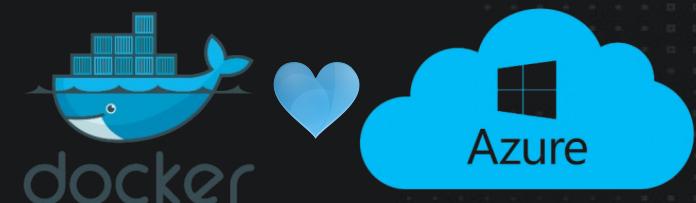


O que é? Como funciona?

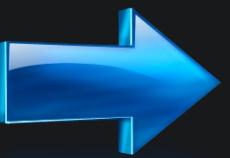
Ferramentas



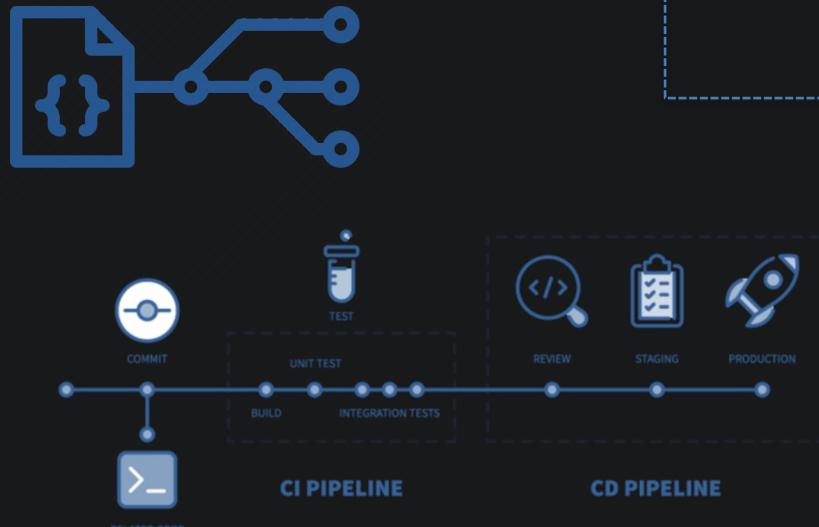
Azure Container Registry (ACR)  
Azure Container Instances (ACI)







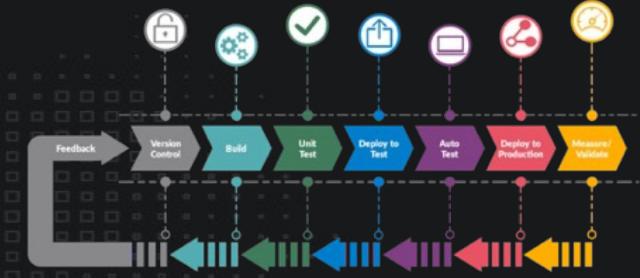
# O que é? Como funciona?



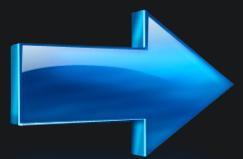
# Conceituando DevOps

## Ferramentas

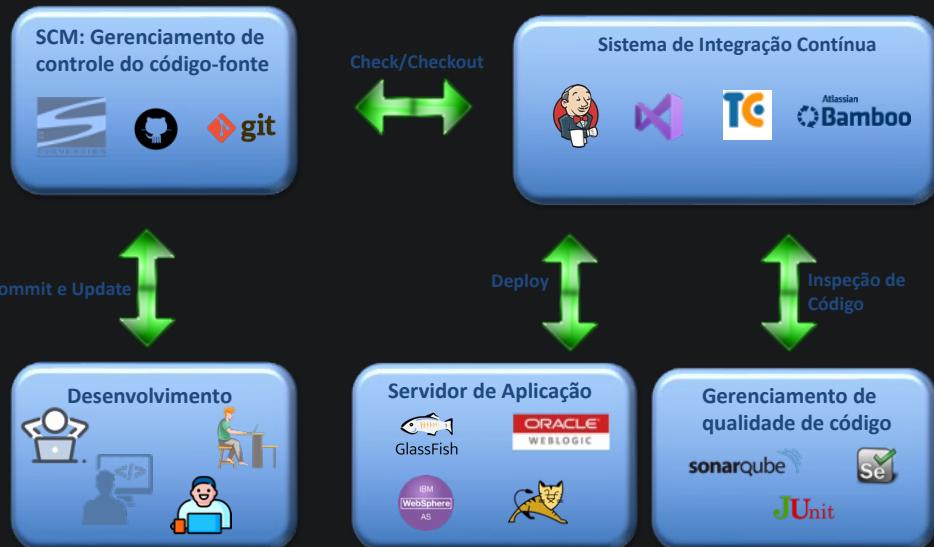




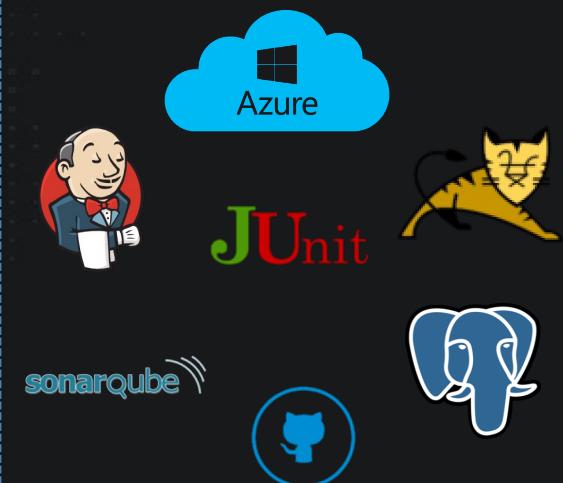
Jenkins  
Tomcat  
Sonar e PostgreSQL

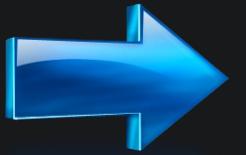


O que é? Como funciona?



Ferramentas

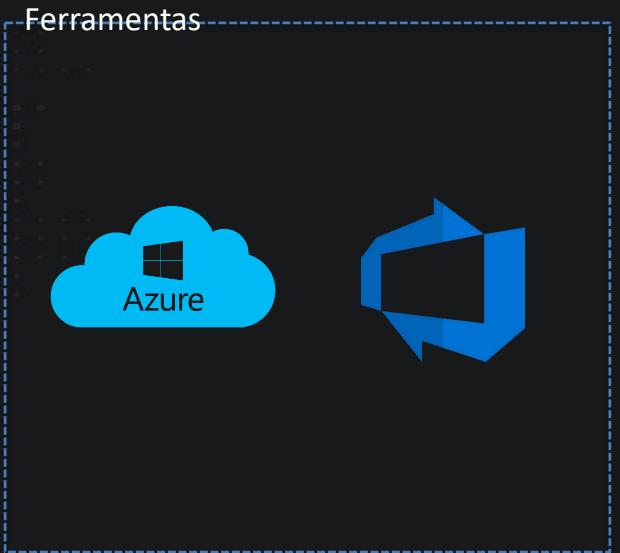
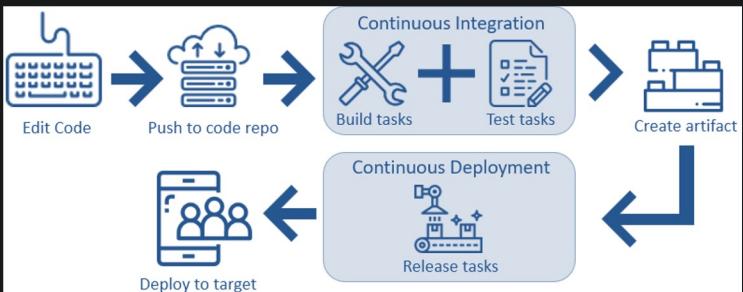
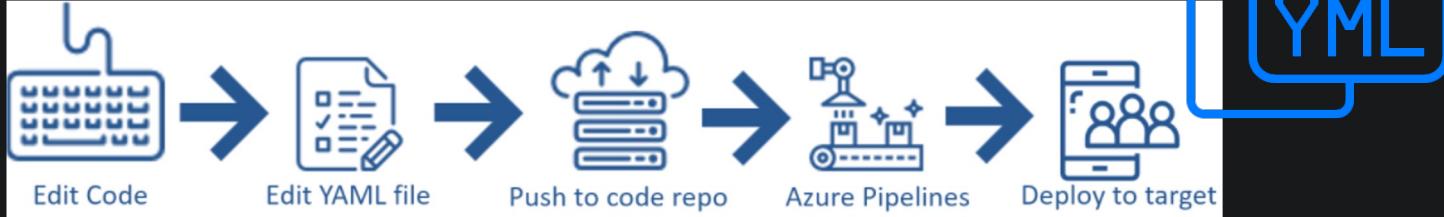




O que é? Como funciona?



## Azure Pipelines



Azure DevOps  
Azure Pipelines



## Estudo de caso: DimDim





## Habilidades

- Preparar, monitorar e gerenciar ambientes e recursos em nuvem, tais como: Banco de Dados, Aplicações, Serviços Cognitivos, IoT e vários outros
- Criar e utilizar um ambiente de DevOps, construindo ambientes que integram as áreas de Desenvolvimento de Software, Infraestrutura e Operações
- Obter uma cultura fortemente colaborativa voltada para as equipes que compõem o ciclo de desenvolvimento de software



## Referências Websites

<http://www.fiap.com.br>

<https://imasters.com.br/>

<https://docs.microsoft.com/pt-br/learn/>

<https://data-flair.training/blogs/>

<https://eduardolegatti.blogspot.com>

<https://www.google.com.br>





# Referências

## SITES PARA DESAFIOS DE PROGRAMAÇÃO

- codewars.com
- hackerrank.com
- urionlinejudge.com.br
- topcoder.com
- hackerearth.com
- leetcode.com
- codechef.com
- codeforces.com
- spoj.com
- codingame.com



## FÓRUNS PARA PERGUNTAS E RESPOSTAS

- stackoverflow.com
- quora.com
- github.com
- reddit.com
- guj.com.br
- stackexchange.com
- codeproject.com
- programmersheaven.com
- coderanch.com

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## CANAIS NO YOUTUBE

- Curso em Vídeo
- Código fonte TV
- Rocketseat
- Filipe Deschamps
- Gabriel Pato
- Programador BR
- Universo Programado
- DevMedia
- Rafaella Ballerini
- Girl Coding
- Gabriela Pinheiro

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## PODCASTS

- Lambda3
- FalaDev
- 2Devs
- Hipsters
- Sinapse
- O universo da programação
- Papo Web

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## PÁGINAS DE PROGRAMAÇÃO NO INSTAGRAM

- @kenzo.software
- @algoritmo\_delas
- @kamila\_code
- @dicasparadevs
- @techly.com.br
- @ga.bielapinheiro
- @gabcodes
- @rafaballerini
- @studytechgram
- @codepw
- @tiger\_codes
- @girl.coding
- @thecoderana
- @delealprala
- @programandosolucoes
- @thecoderbr
- @dicasdodev
- @programadoresbrasil
- @go.droid
- @helpdevsoficial
- @maiattodev
- @eu.rafaellamonier
- @garota\_developer
- @umdevv
- @iza.dev
- @featurecode\_
- @divers\_tech
- @programadormaroto

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## Oracle Linux 8 - ISO

105 GB

[https://drive.google.com/file/d/1QnvuNzGG-\\_OODJIMHUD3S\\_gGz1yyzOXf/view?usp=share\\_link](https://drive.google.com/file/d/1QnvuNzGG-_OODJIMHUD3S_gGz1yyzOXf/view?usp=share_link)



## VirtualBox - Software

[https://drive.google.com/file/d/1Sk\\_oieP5WOEujV7eLGEZ5kKjP21nnonS/view?usp=share\\_link](https://drive.google.com/file/d/1Sk_oieP5WOEujV7eLGEZ5kKjP21nnonS/view?usp=share_link)



[https://drive.google.com/file/d/1xHvlGnq2IroOByyb2hFxBFUOyUwXqeG3/view?usp=share\\_link](https://drive.google.com/file/d/1xHvlGnq2IroOByyb2hFxBFUOyUwXqeG3/view?usp=share_link)



## VirtualBox - Extension Pack

[https://drive.google.com/file/d/1iVa7RguIEpHumZEN5uNTKeyMwERkMai1/view?usp=share\\_link](https://drive.google.com/file/d/1iVa7RguIEpHumZEN5uNTKeyMwERkMai1/view?usp=share_link)

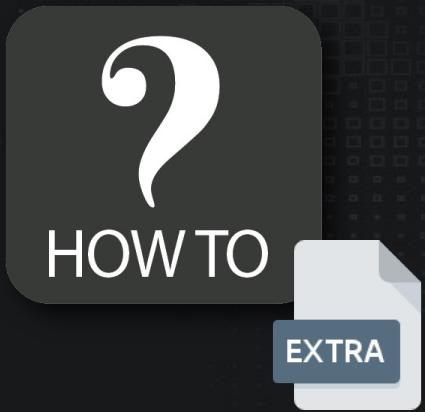


## Oracle Linux 8 - VM Pronta

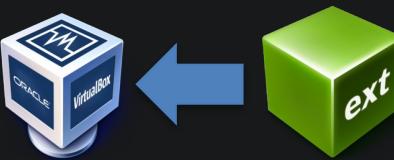


72 GB

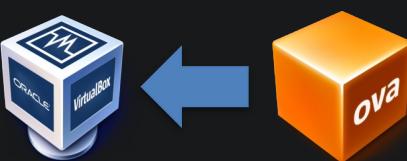
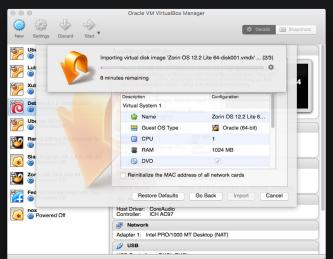
[https://drive.google.com/file/d/1saneAe4I7E94kzX7ejtRfPVMT5nv3Kvm/view?usp=share\\_link](https://drive.google.com/file/d/1saneAe4I7E94kzX7ejtRfPVMT5nv3Kvm/view?usp=share_link)



Instalar o VirtualBox e Extension Pack



Importar uma imagem no Virtualbox



Docker Install – Windows e Mac

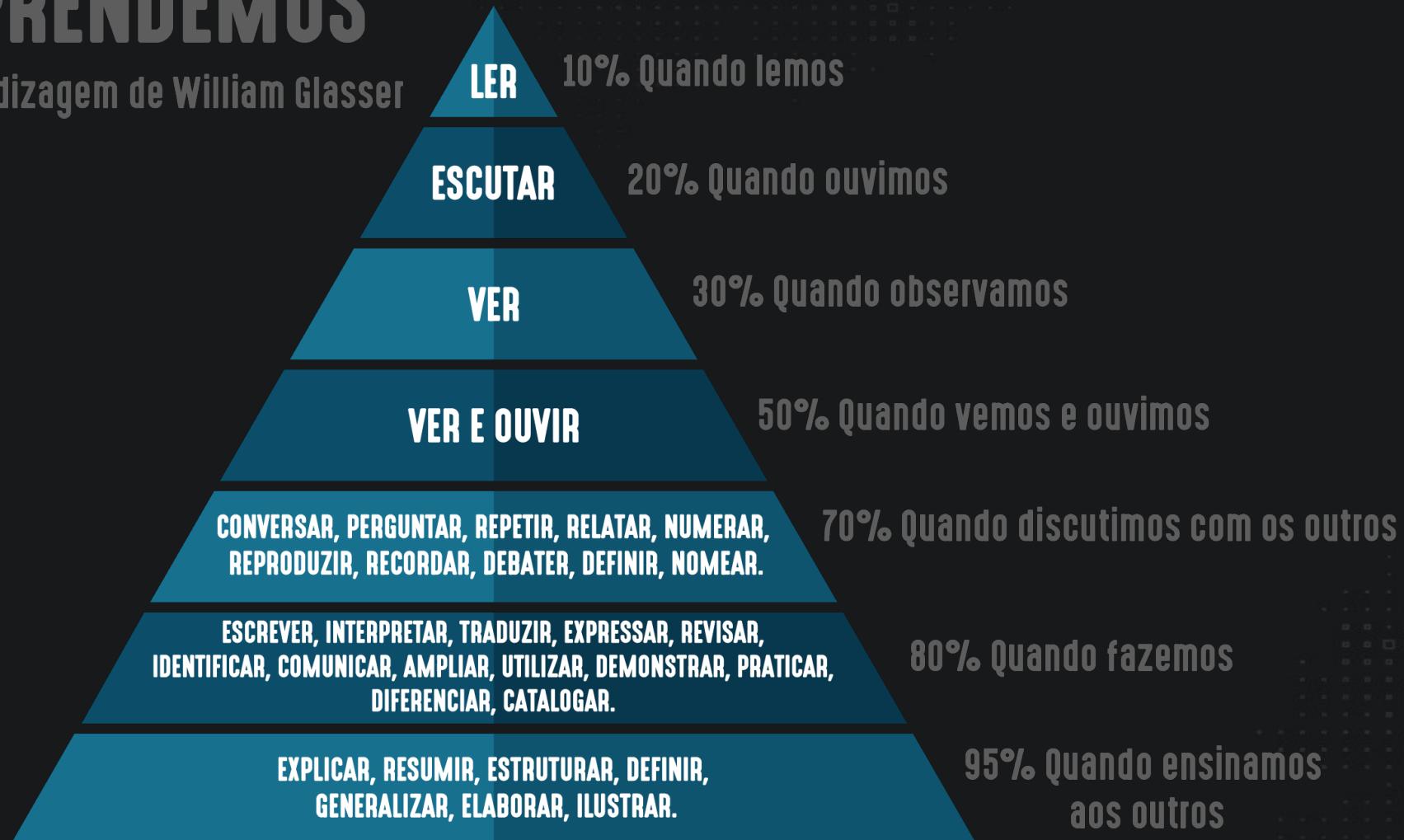




VAMOS NOS  
CONHECER MELHOR?

# COMO APRENDEMOS

A pirâmide de aprendizagem de William Glasser





FIAP

THE WAY WE ARE