

# DEVOPS

DIA 10 DE 10





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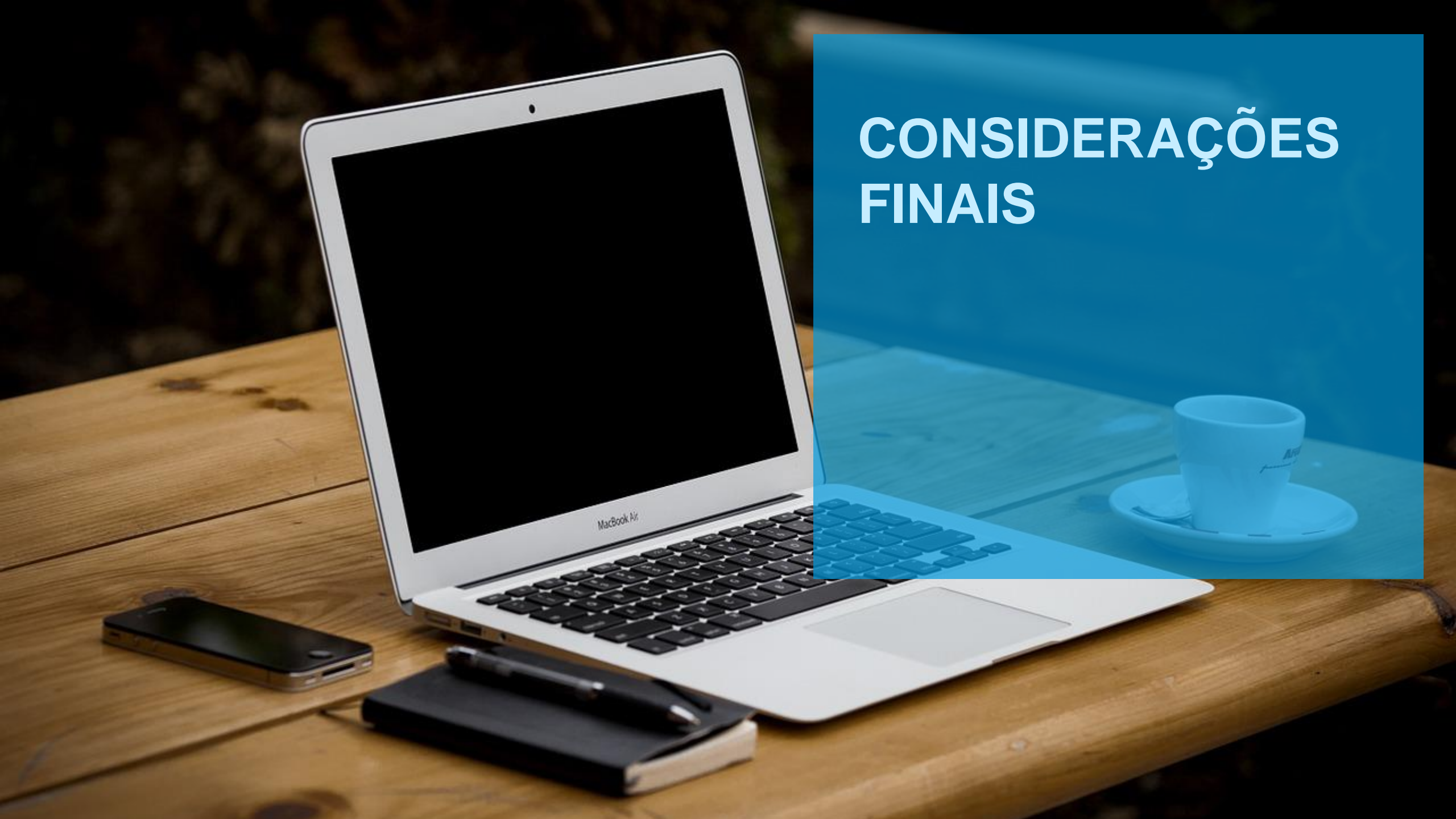


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# CONSIDERAÇÕES FINAIS



# SUMÁRIO

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- Kubernetes - Services
- Docker Compose
- Laboratórios



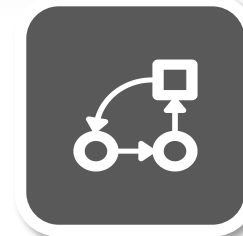


# KUBERNETES

## SERVICES

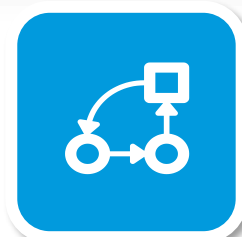
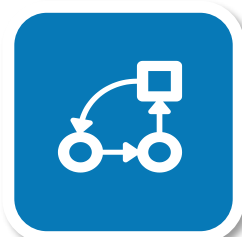
# KUBERNETES - SERVICES

Conexão de rede com um Pod.



Realizar o roteamento de uma chamada para um Pod, através de um IP/DNS.

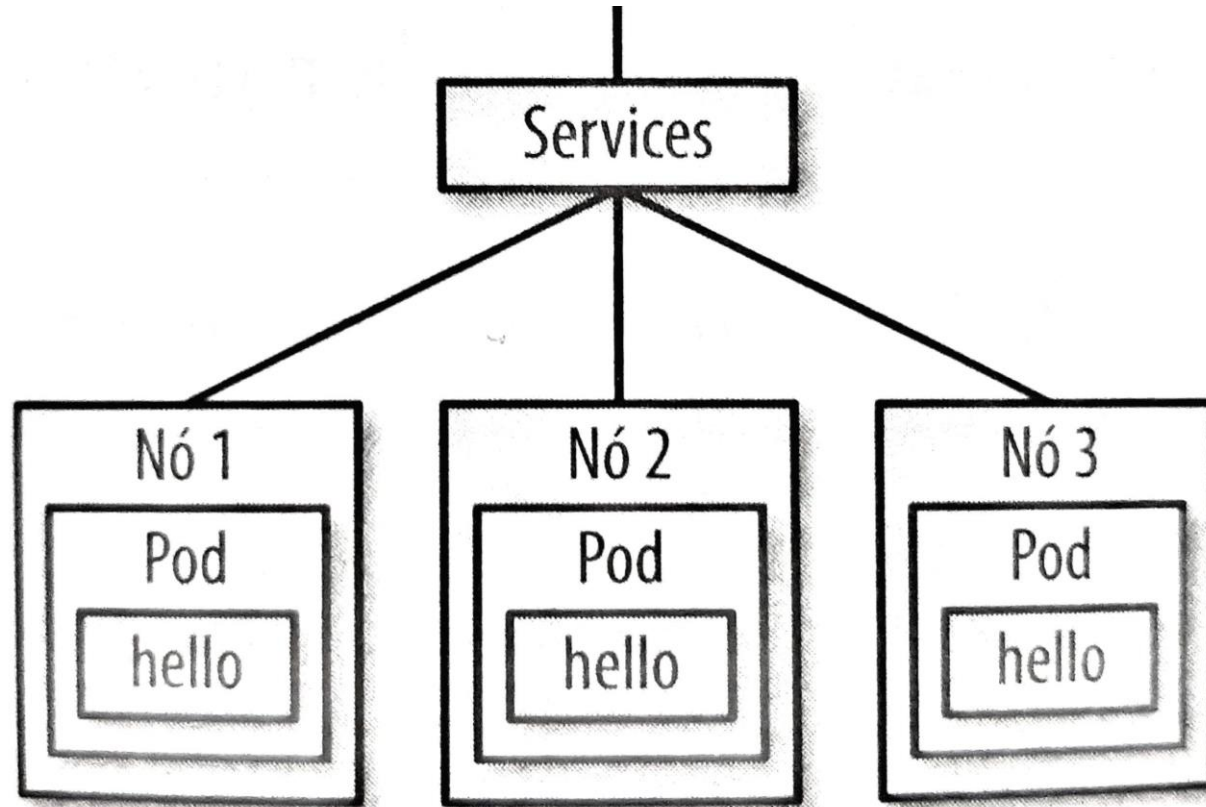
Funciona como um web proxy ou um balanceador de carga.



Não está restrito a portas web, é capaz de encaminhar tráfego de uma porta a outra.



# KUBERNETES - SERVICES



# KUBERNETES - SERVICES

---

```
apiVersion: v1
kind: Service
metadata:
  name: lab14-service
spec:
  selector:
    app: goves
  ports:
    - protocol: TCP
      port: 1080
      targetPort: 80
  type: LoadBalancer
```



## KUBERNETES – SERVICES – APPLY

---

```
c:> kubectl apply -f [nome do serviço].yaml
```

Cria ou atualiza um serviço.

## KUBERNETES – SERVICES – GET SERVICES

---

```
c:> kubectl get services
```


Exibe uma lista contendo os serviços existentes.



# KUBERNETES

## LABORATÓRIO 14



A low-angle, teal-tinted photograph of a dense city street, likely in New York City. Tall buildings line both sides of the street, creating a canyon effect. The sky is visible at the top. The street is filled with cars and a bus. On the right, there are signs for 'Star Cafe' and 'Breakfast Lunch Dinner'. The overall mood is urban and modern.

# DOCKER

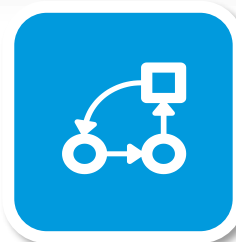
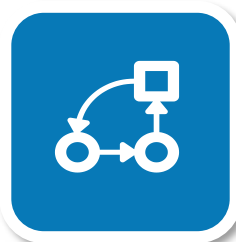
## COMPOSE

# DOCKER - COMPOSE

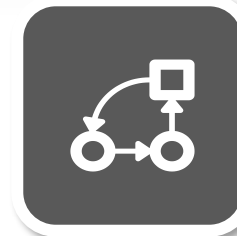
Ferramenta para execução única de múltiplos contêineres.



Com um único comando é possível iniciar a execução dos diversos serviços configurados no arquivo \*.yaml.



Suporta configurações distintas para os diversos ambientes: dev, hom, prod, etc.



A configuração é feita através de arquivos \*.yaml.

# DOCKER - COMPOSE

---

1

Configure o seu container



dockerfile

Crie o arquivo dockerfile que vai representar a sua imagem.

2

Crie a lista de serviços



docker-compose.yaml

Crie o arquivo docker-compose com a lista dos serviços que serão executados em conjunto com o seu container.

3

Execute o compose



docker-compose up

Execute o contêiner com o comando docker-compose up



# DOCKER - COMPOSE

```
1  version: '3.6'
2
3  networks:
4  - dockersql-network:
5    driver: bridge
6
7  services:
8  - internetbanking:
9    container_name: ${DOCKER_REGISTRY-}internetbanking
10   image: ${DOCKER_REGISTRY-}internetbanking
11   build:
12     context: .
13     dockerfile: Dockerfile
14   environment:
15     - ConnectionStrings__DefaultConnection=Data Source=192.168.1.105,1401;User ID=sa;Password=@CurSoDev0ps1;
16   networks:
17     - dockersql-network
18   depends_on:
19     - sql.database
20
21  - sql.database:
22    container_name: customsql.database
23    image: microsoft/mssql-server-linux:2017-latest
24    networks:
25     - dockersql-network
```

# DOCKER – COMPOSE - OVERRIDE

```
1  version: '3.6'
2
3  services:
4    internetbanking:
5      environment:
6        - ASPNETCORE_ENVIRONMENT=Development
7      ports:
8        - "9091:80"
9
10   sql.database:
11     environment:
12       - SA_PASSWORD=@CurSoDev0ps1
13       - ACCEPT_EULA=Y
14     ports:
15       - "1401:1433"
```

# DOCKER – COMPOSE

---

```
c:> docker-compose up  
c:> docker-compose up [nome do serviço]  
c:> docker-compose up -f [arquivos para sobrescrita / merge]
```

Executa os serviços especificados no docker-compose.yaml.





# DOCKER

## LABORATÓRIO 15





# AZURE DEVOPS + DOCKER

## LABORATÓRIO 16