DEVOPS
DIA 10 DE 10

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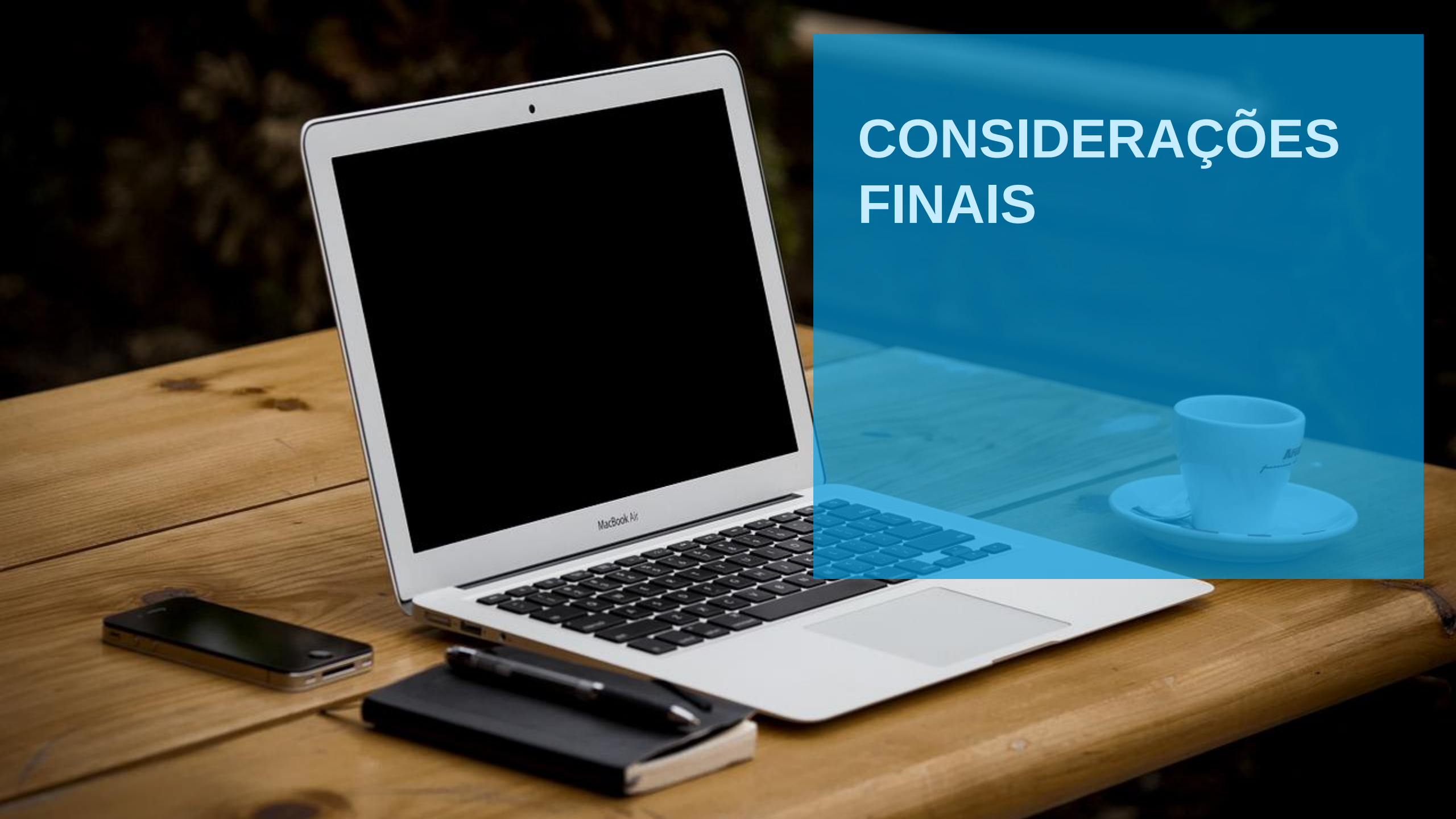
CONSIDERAÇÕES FINAIS



SUMÁRIO

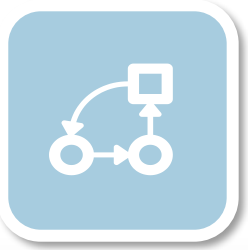
- Kubernetes - Services
- Docker Compose
- Laboratórios

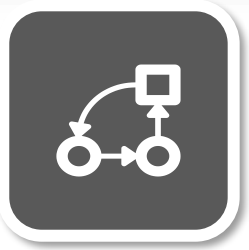
KUBERNETES

SERVICES

KUBERNETES - SERVICES

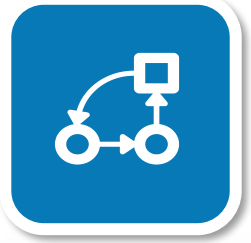
Conexão de rede com um Pod.

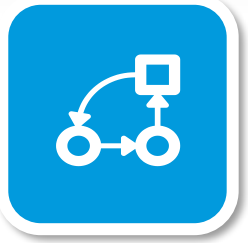




Realizar o roteamento de uma chamada para um Pod, através de um IP/DNS.

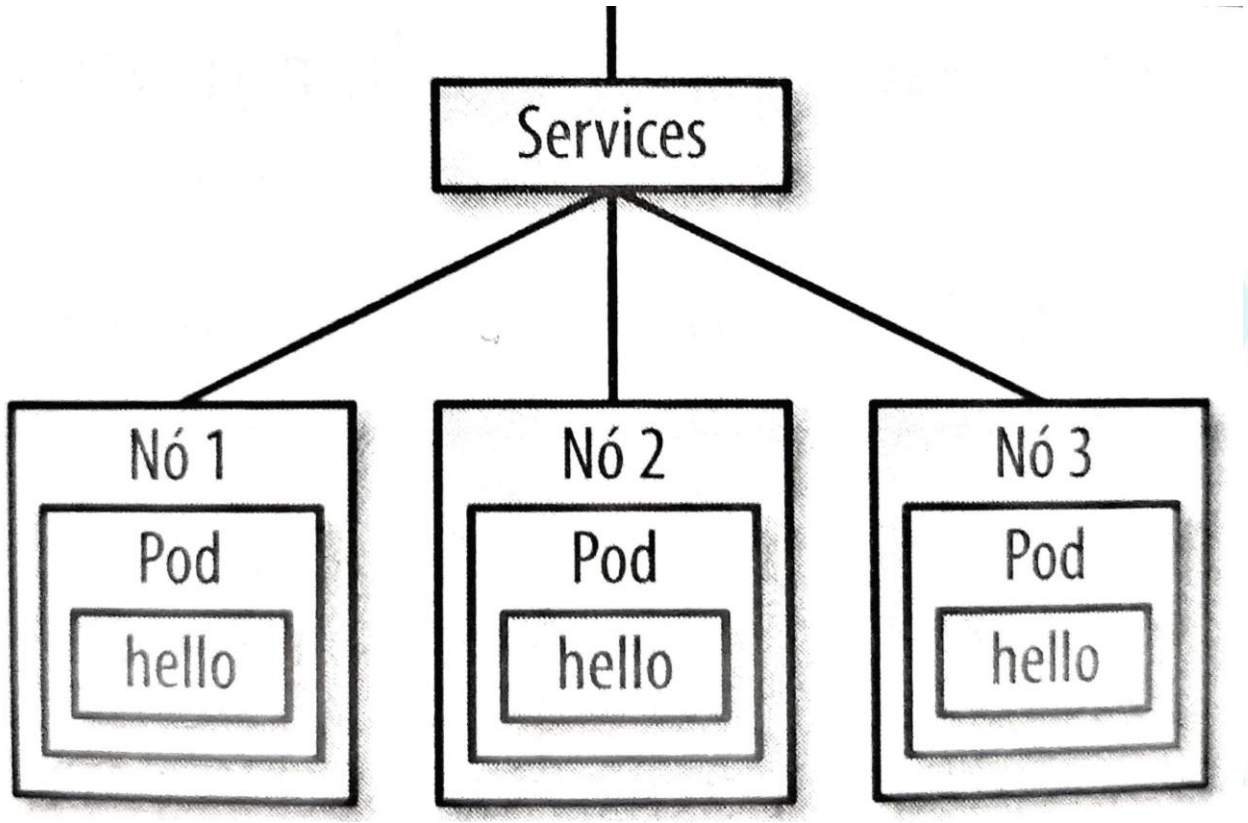
Funciona como um web proxy ou um balanceador de carga.





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

KUBERNETES - SERVICES



KUBERNETES - SERVICES

```yaml
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

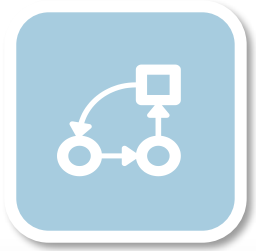
LABORATÓRIO 14

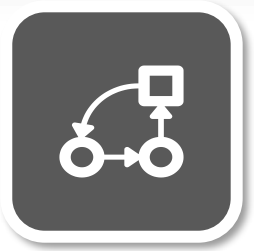
DOCKER

COMPOSE

DOCKER - COMPOSE

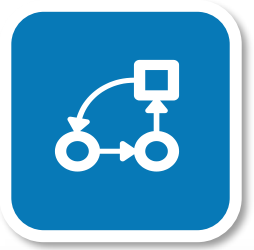
Ferramenta para execução única de múltiplos contêineres.

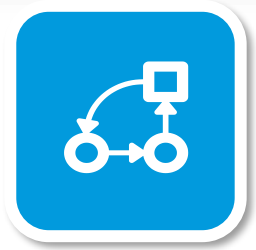




A configuração é feita através de arquivos *.yaml.

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

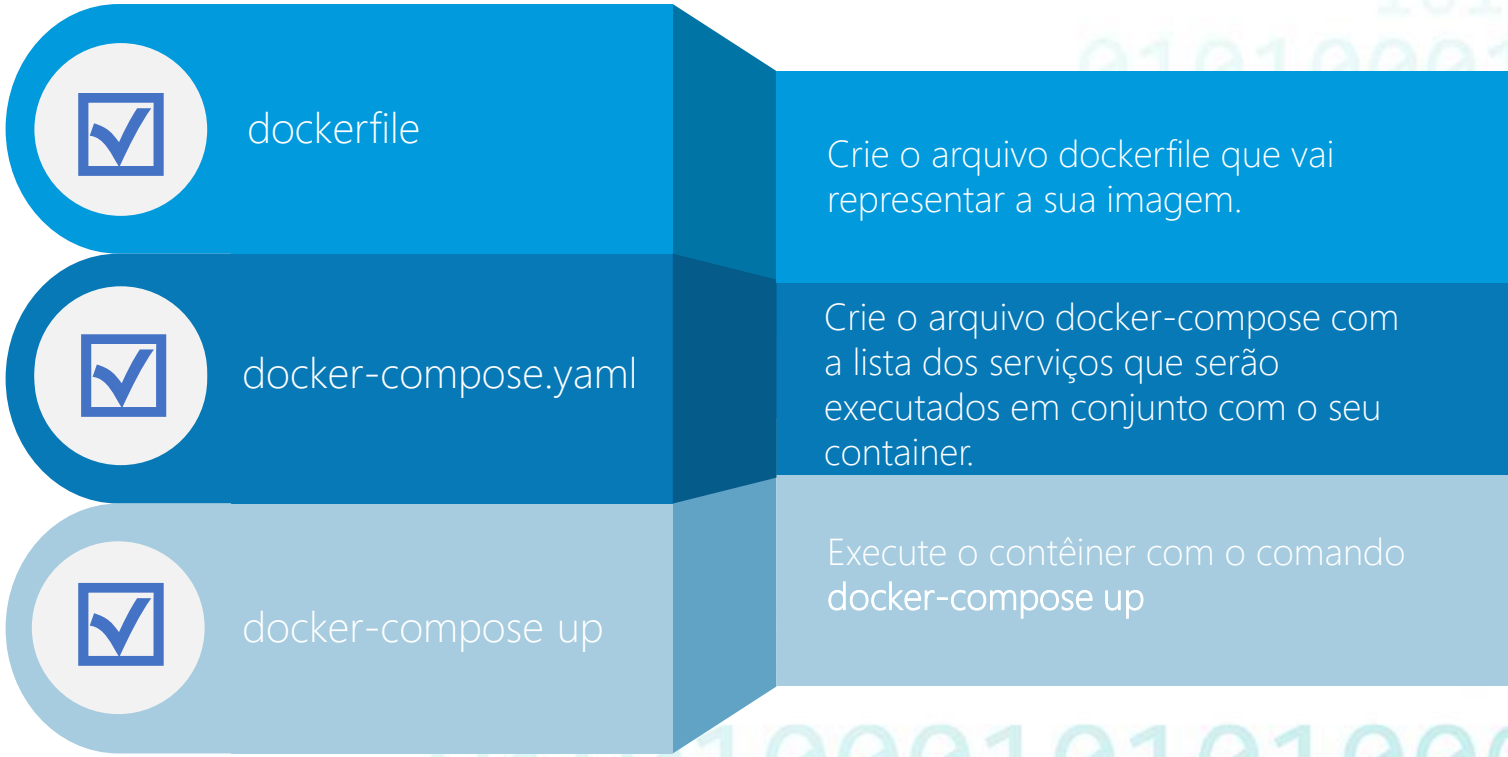




Suporta configurações distintas para os diversos ambientes: dev, hom, prod, etc.

DOCKER - COMPOSE

1. Configure o seu container
2. Crie a lista de serviços
3. Execute o compose



DOCKER - COMPOSE

```yaml
version: '3.6'

networks:
  dockersql-network:
    driver: bridge

services:
  internetbanking:
    container_name: ${DOCKER_REGISTRY-}internetbanking
    image: ${DOCKER_REGISTRY-}internetbanking
    build:
      context: .
      dockerfile: Dockerfile
    environment:
      - ConnectionStrings__DefaultConnection=Data Source=192.168.1.105,1401;User ID=sa;Password=@CurSoDev0ps1;
    networks:
      - dockersql-network
    depends_on:
      - sql.database

  sql.database:
    container_name: customsql.database
    image: microsoft/mssql-server-linux:2017-latest
    networks:
      - dockersql-network
```

DOCKER – COMPOSE - OVERRIDE

```yaml
version: '3.6'

services:
  internetbanking:
    environment:
      - ASPNETCORE_ENVIRONMENT=Development
    ports:
      - "9091:80"

  sql.database:
    environment:
      - SA_PASSWORD=@CurSoDev0ps1
      - ACCEPT_EULA=Y
    ports:
      - "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