





augustonunes



Augusto Nunes



augusto.cbn



KUBERNETES – SUMÁRIO

- Visão Geral
- Auto-Hospedagem
- Serviços Gerenciados e Ferramentas

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- Soluções Turnkey
- Instaladores
- Principais Comandos
- Laboratórios

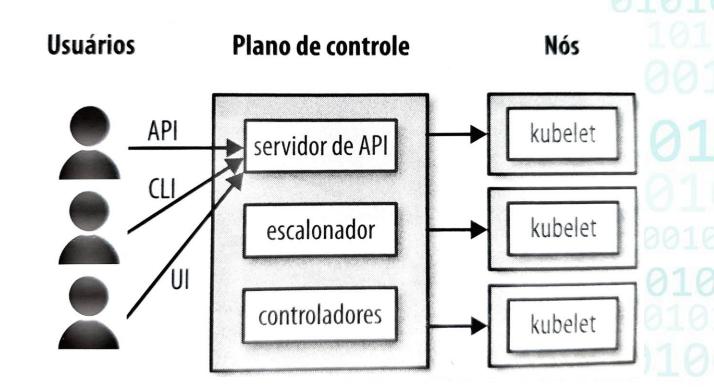




KUBERNETES – PLANO DE CONTROLE

O plano de controle é a principal peça do Kubernetes. Ele executa todas as tarefas necessárias a realização dos trabalhos: escalona contêineres, administra serviços e atende

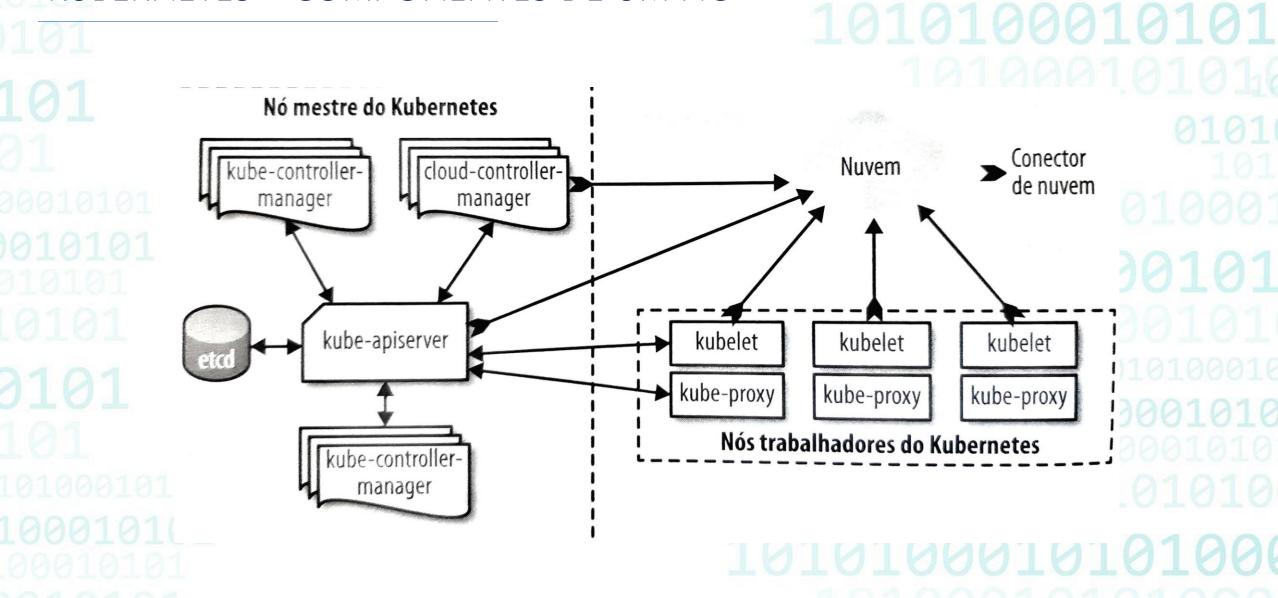
requisições de API.



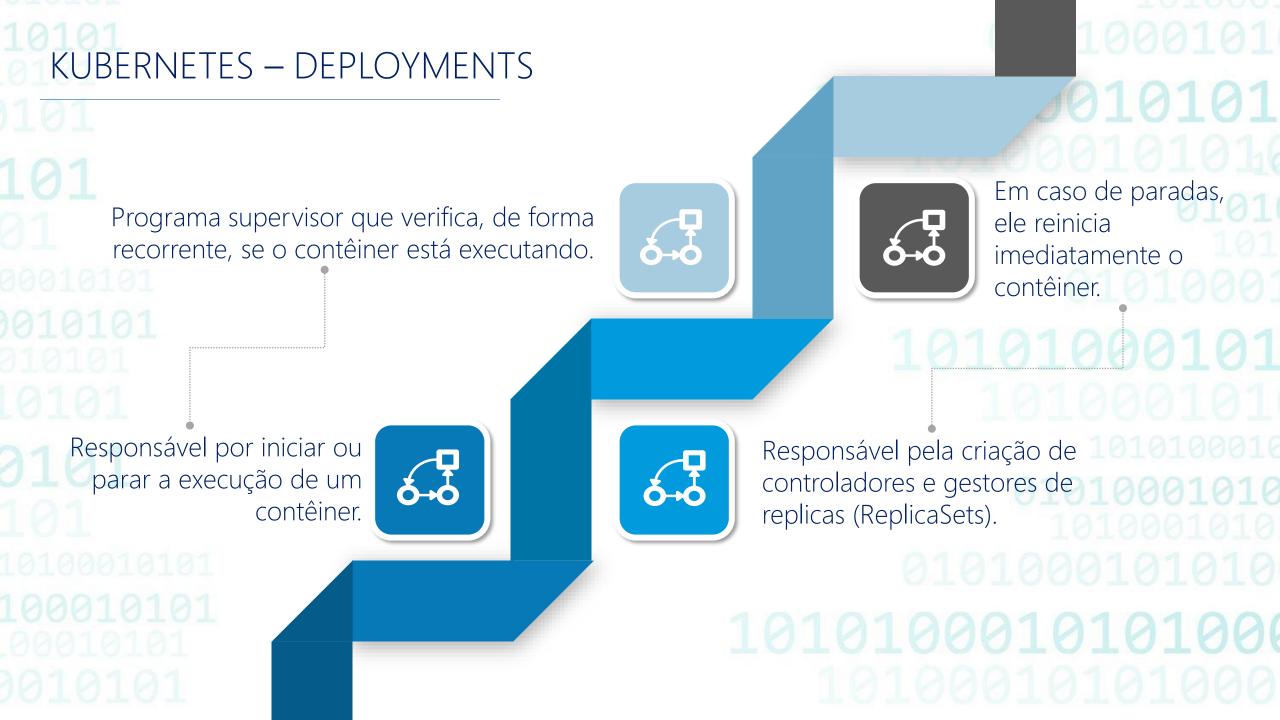




KUBERNETES – COMPONENTES DE UM NÓ

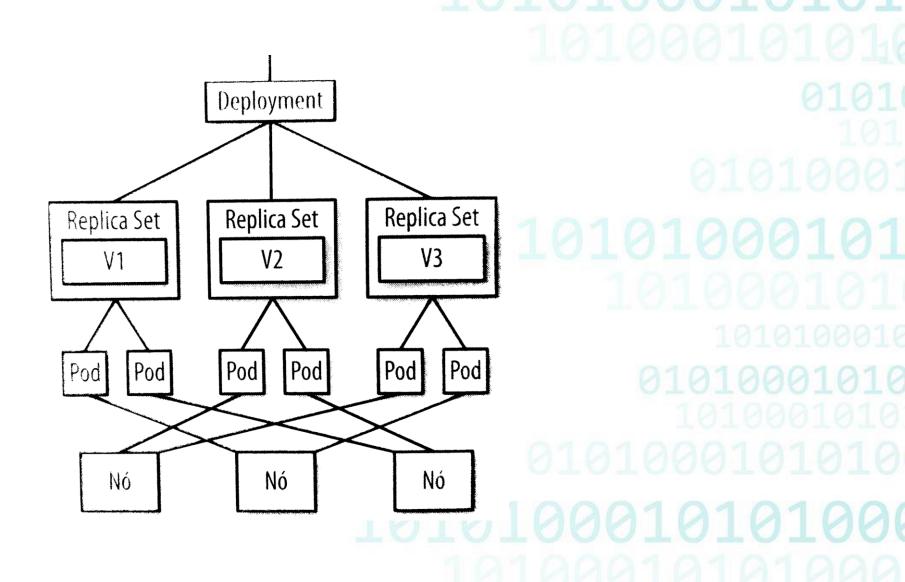




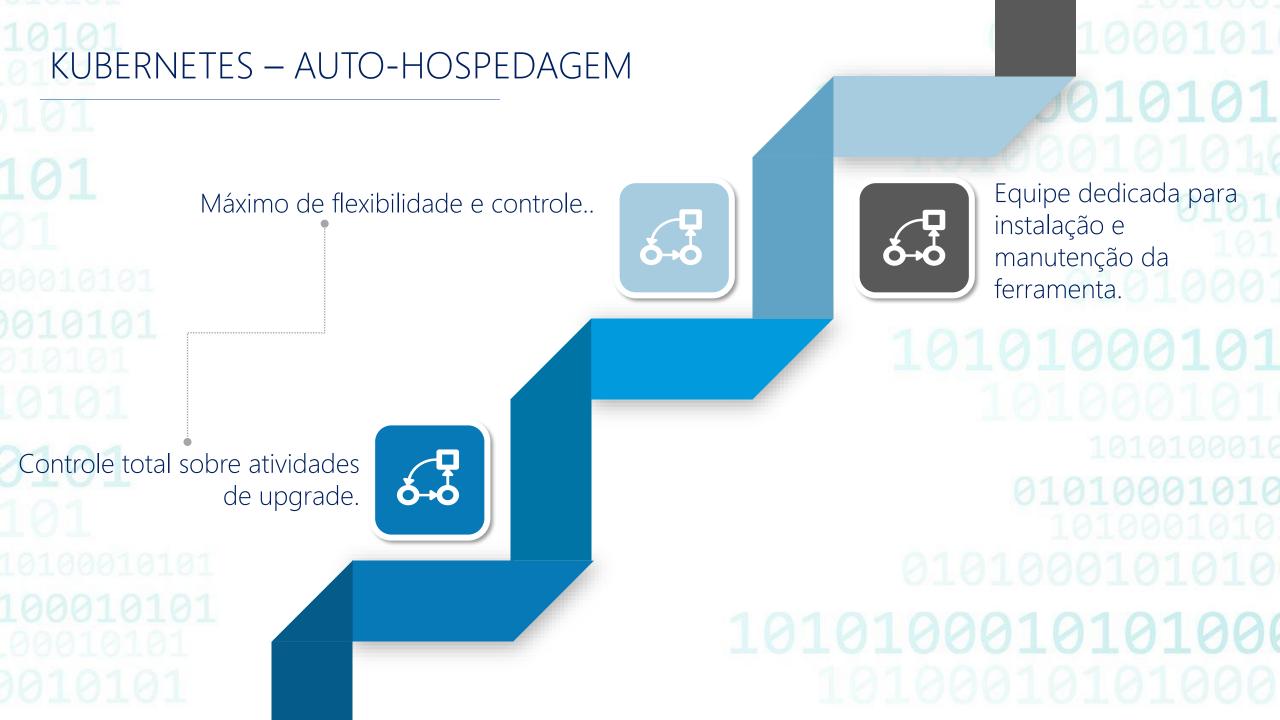




KUBERNETES – REPLICASET













KUBERNETES - AUTO-HOSPEDAGEM - DESAFIOS



At a previous job, we decided against doing K8s. A disgruntled engineer spent the entirety of their tenure being grumpy about this decision.

It takes well over a million dollars just in engineer salary to get K8s up and running from scratch. And you still might not get there.

Traduzir Tweet



(A) K10g @KarlKFI · 21 de jul de 2018

Em resposta a @ibuildthecloud e @drnic

Even with kubeadm and a team of 6 you can't get upstream K8s production ready in 6 months. We tried.

Hard Problems:

- High Availability
- Single Sign On
- Multitennancy
- Resource Isolation
- Permission Management
- Upgrades
- Backups
- Package Management
- CI/CD Integration

12:57 AM · 22 de jul de 2018 · Twitter for iPhone

KUBERNETES — AUTO-HOSPEDAGEM - DESAFIOS



Cindy Sridharan is a distributed systems engineer. She's the author of a book on Distributed Systems Observability with O'Reilly and the co-author of an upcoming book on distributed systems engineering in the cloud. She runs the Prometheus user group in San Francisco, has been a reviewer of several technical books and on the program committee of leading industry conferences on systems engineering. She lives in San Francisco and in her spare time enjoys hiking the gorgeous outdoors of the Bay Area, reading way too many papers and occasionally blogging about building resilient and maintainable systems.

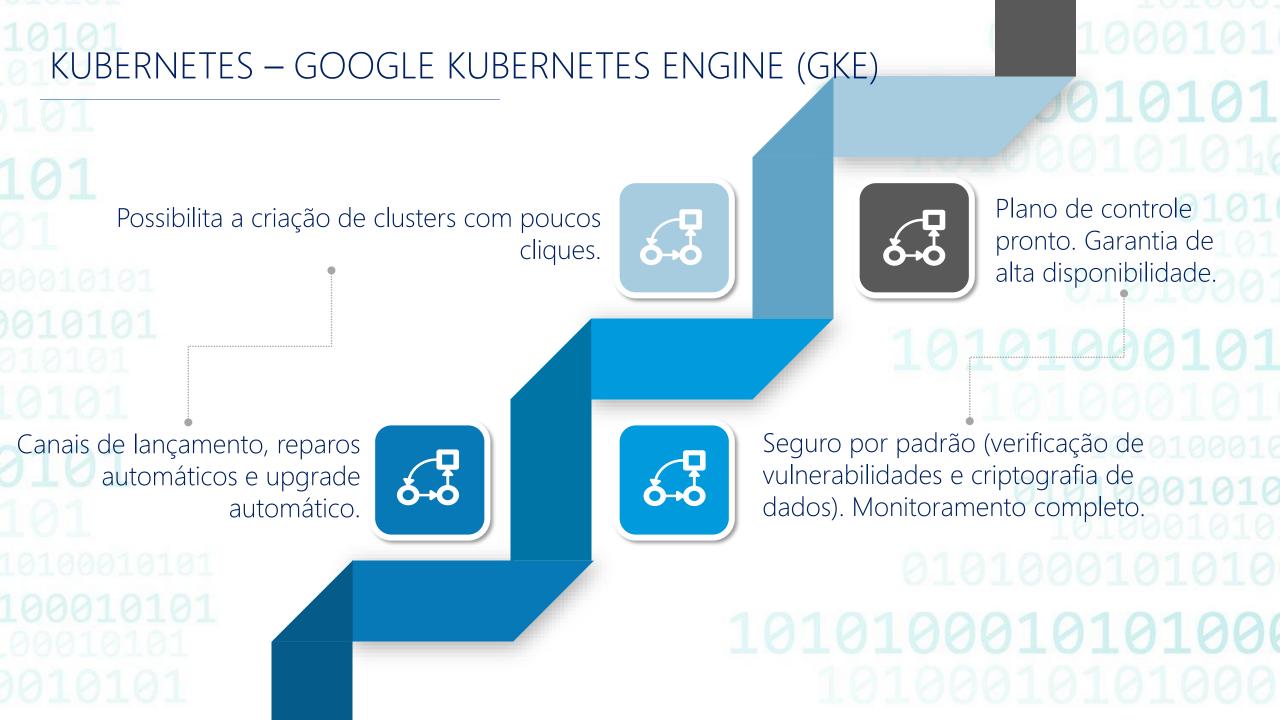
Find Cindy Sridharan at



@copyconstruct

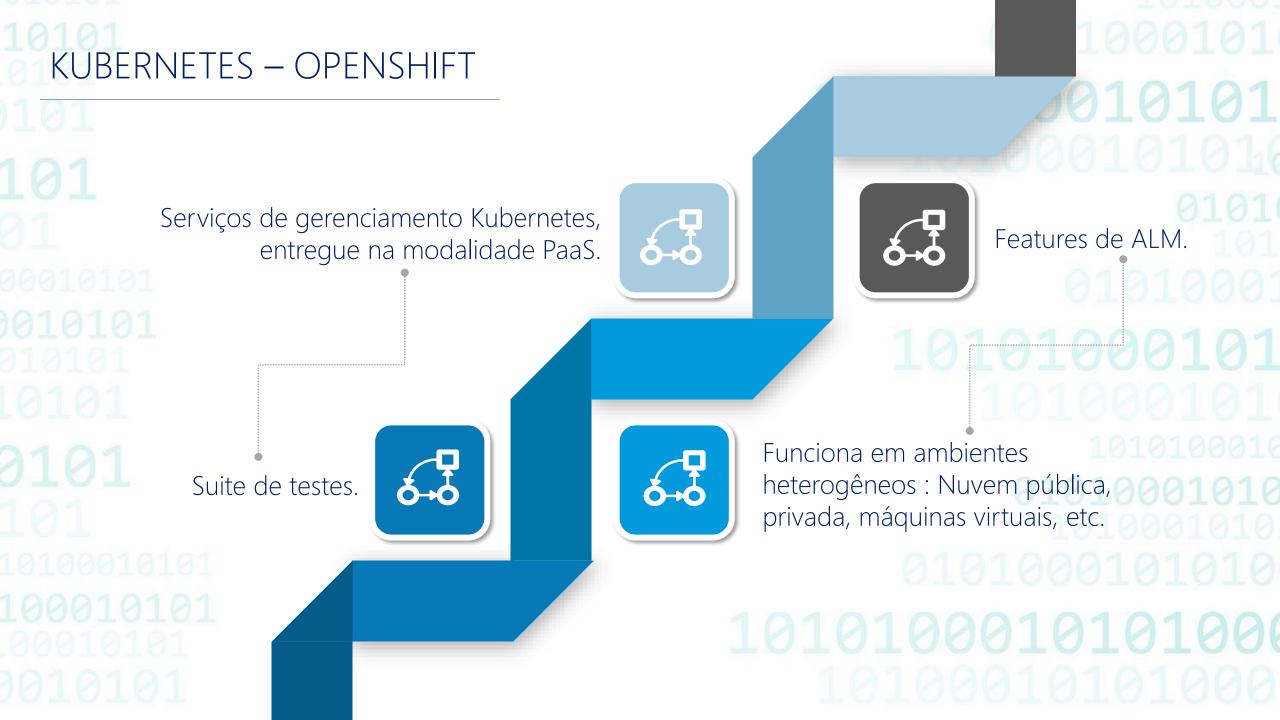
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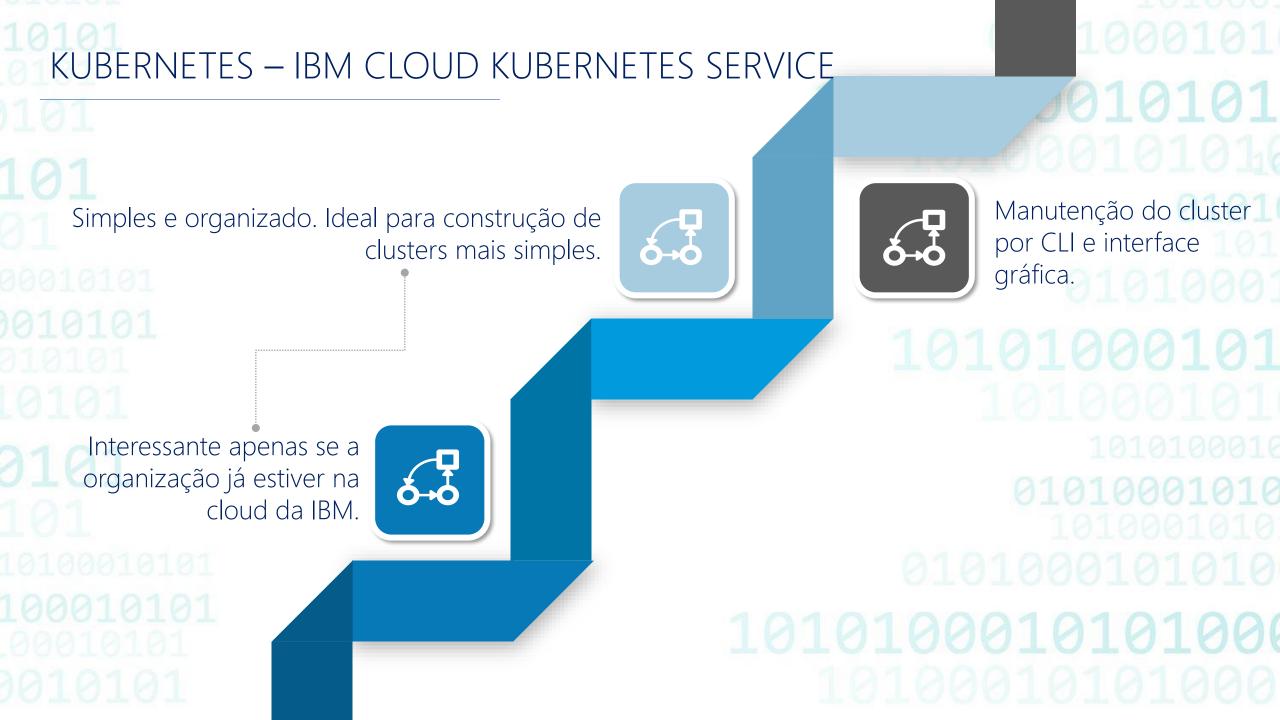




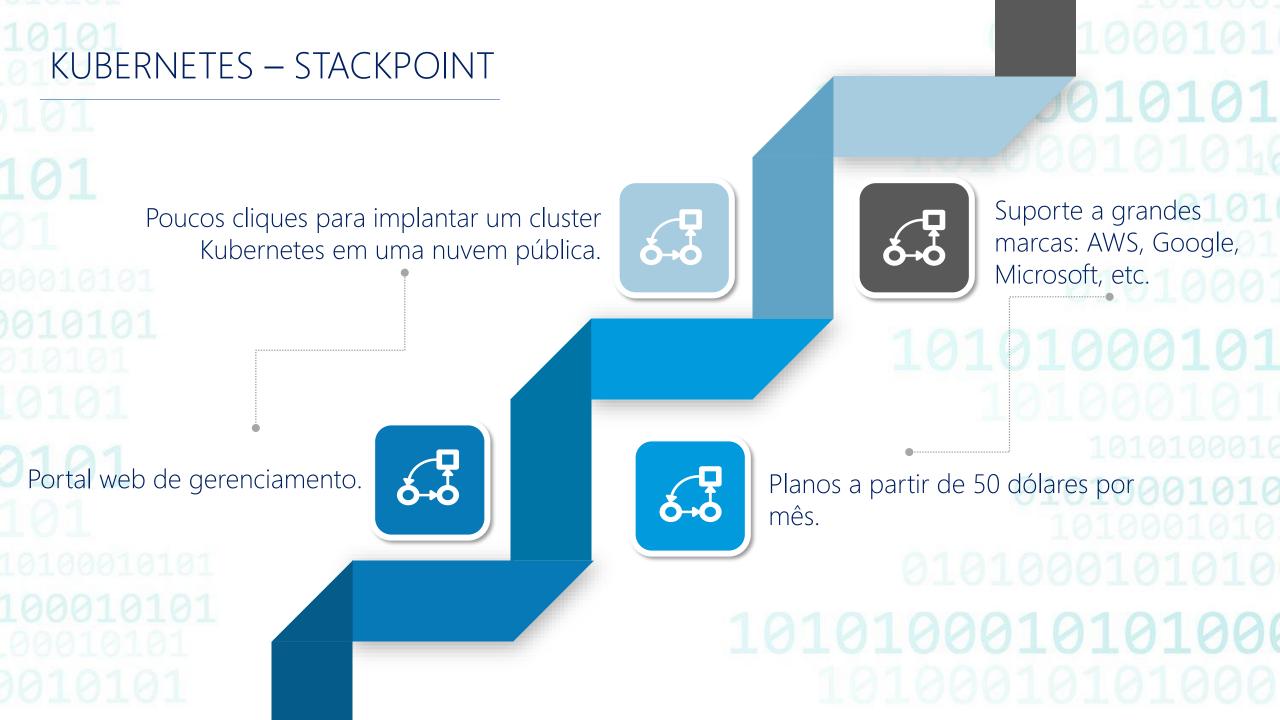


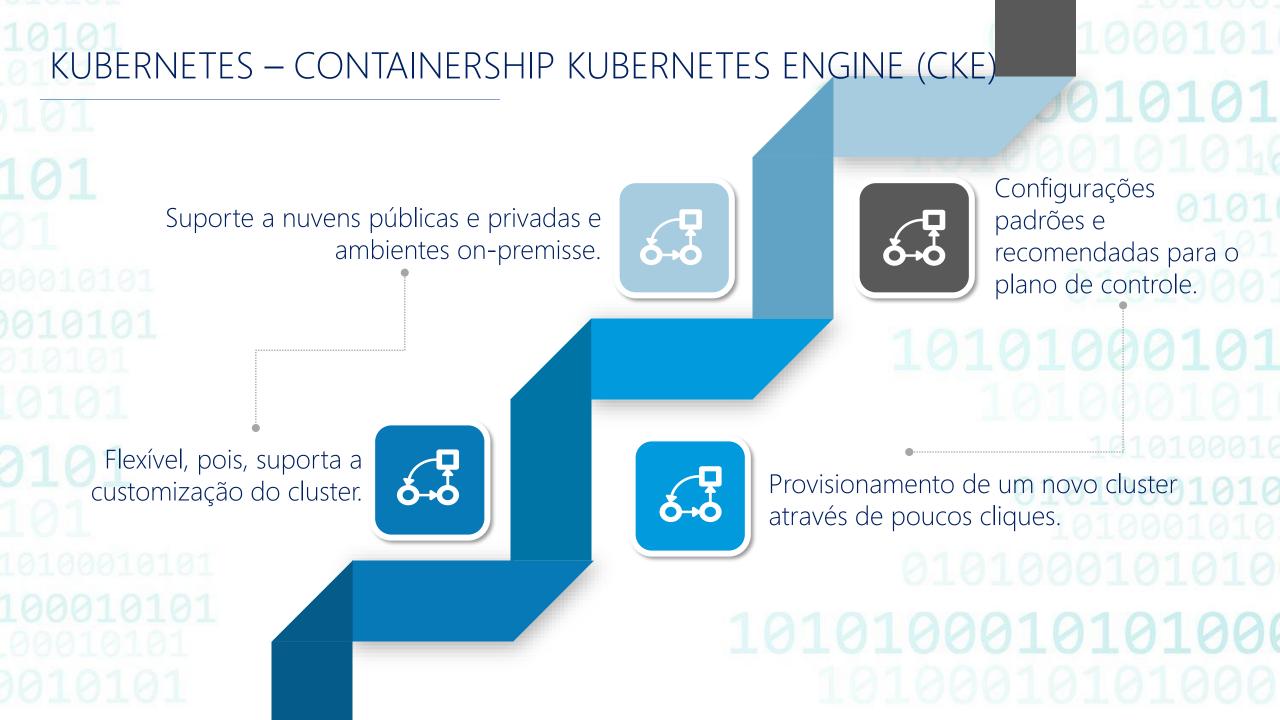






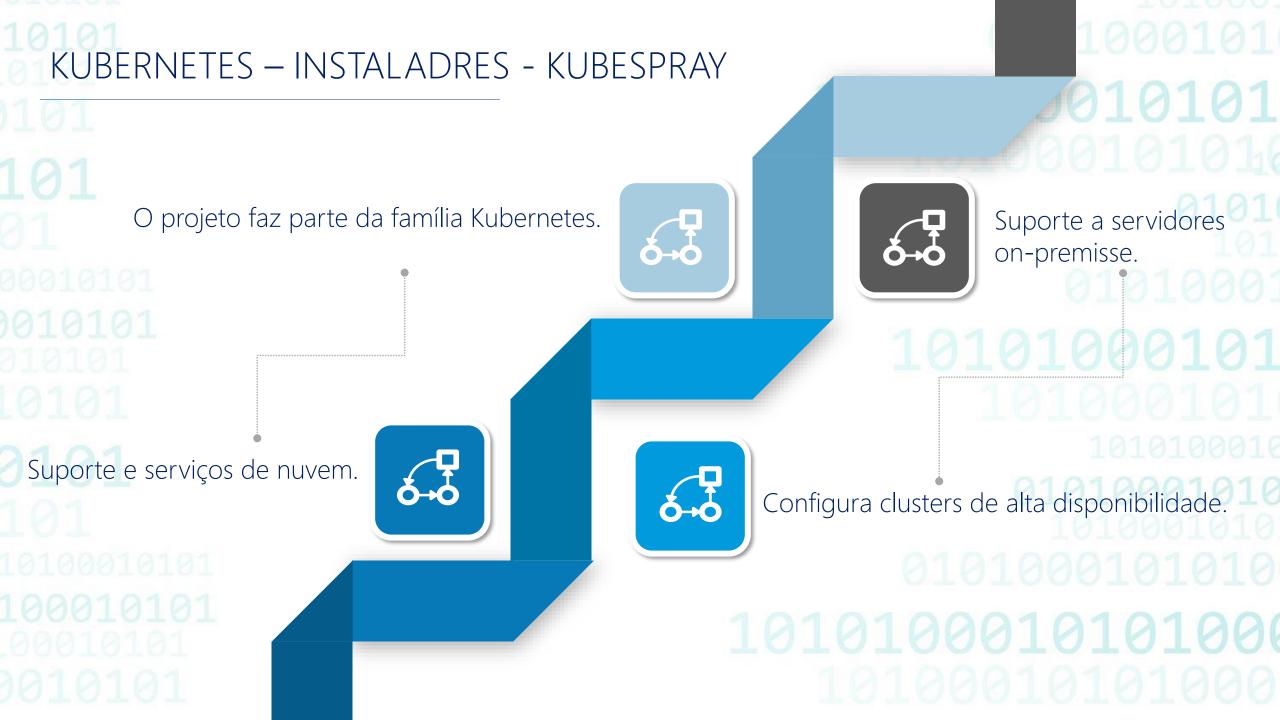


















KUBERNETES – PRINCIPAIS COMANDOS – CREATE DEPLOYMENT

c:> kubectl create deployment [nome] --image [imagem docker]

--image nome da imagem a ser executada

Cria um deployment e consequentemente instância o pod relacionado.

KUBERNETES – PRINCIPAIS COMANDOS – PORT FORWARD

c:> kubectl port-forward type/name 0000:9999

type deploy, pod, service, etc.

0000 porta do host

9999 porta exposta no container

Realiza o encaminhamento de portas, entre o host e o container.

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Exibe a lista de nós vinculados ao cluster Kubernetes.

KUBERNETES – PRINCIPAIS COMANDOS – GET DEPLOYMENTS

- c:> kubectl get deployments
- c:> kubectl get deployment [nome do deployment] --output yaml

Lista os deployments ativos no namespace corrente.

KUBERNETES – PRINCIPAIS COMANDOS – DESCRIBE 101 c:> kubectl describe [tipo do recurso]/[nome do recurso]

Exibe os detalhes de um recurso específico do Kubernetes.

KUBERNETES – PRINCIPAIS COMANDOS – GET PODS

- c:> kubectl get pods
- c:> kubectl get pods --selector app=[nome do deployment]

Obtém os pods instânciados para determinado deployment.

KUBERNETES – PRINCIPAIS COMANDOS – DELETE PODS

c:> kubectl delete pods --selector app=[nome do deployment]
c:> kubectl delete all --selector app=[nome do deployment]

all remove o deployment e as réplicas.

Desativa os pods do deployment.

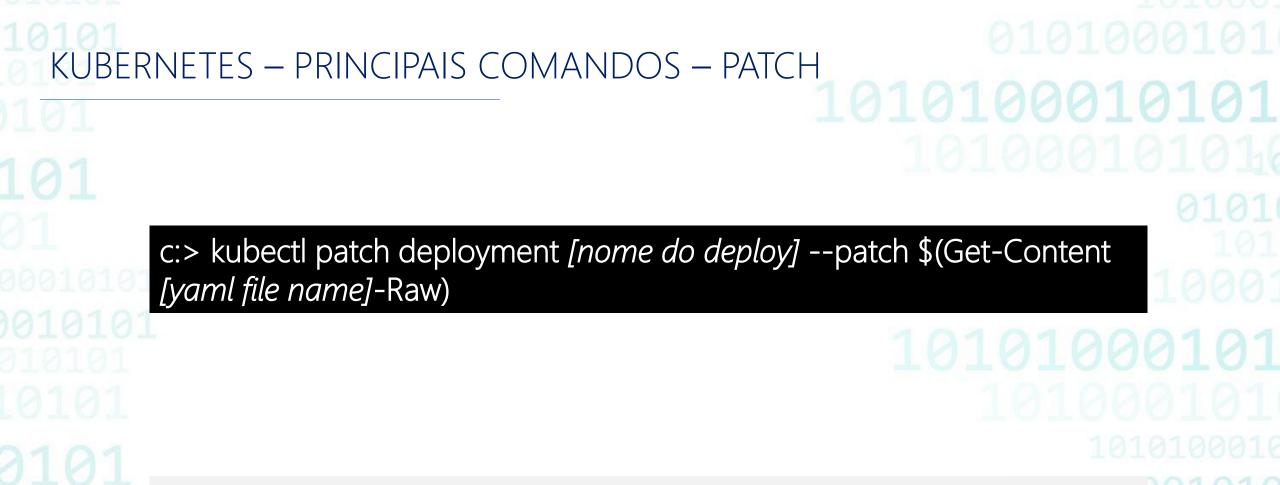
KUBERNETES – PRINCIPAIS COMANDOS – DELETE DEPLOYMENT c:> kubectl delete deployment [nome do deployment] Remove o deployment parametrizado.

KUBERNETES – PRINCIPAIS COMANDOS – SET IMAGE

c:> kubectl set image [tipo do serviço]/[nome do serviço] [nome do contêiner]=[nome da imagem]

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Atualiza a imagem de contêiner de um deployment.



Atualização parcial de um objeto Kubernetes.

