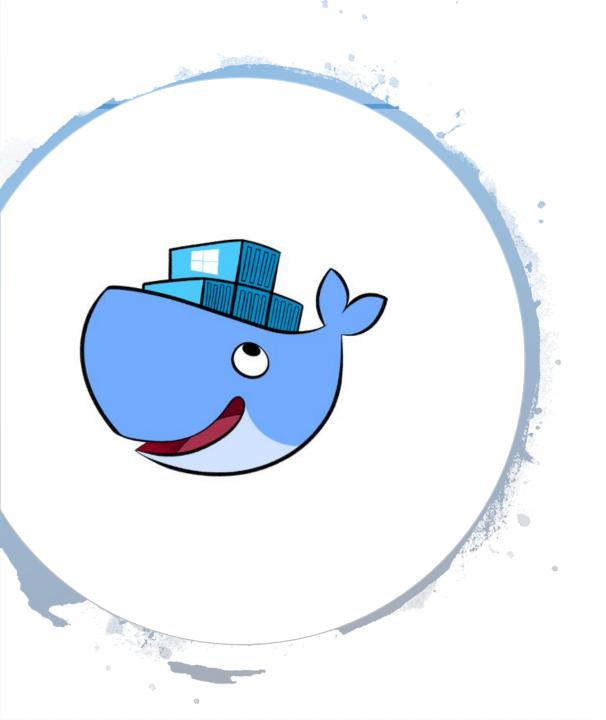
# 7° Docker Meetup BH

Dockerizando no ambiente Windows

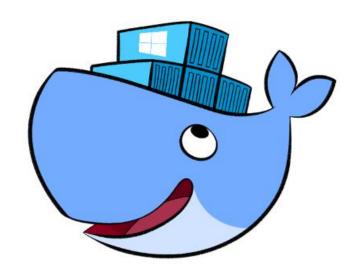




#### Conteúdo

- Docker no Windows?
- Por que Containers e não VMs?
- Processo de Instalação
- Executando seu primeiro container docker no Windows
- Casos de Uso
- Docker Windows ou Linux?

## Docker no Windows?



### História

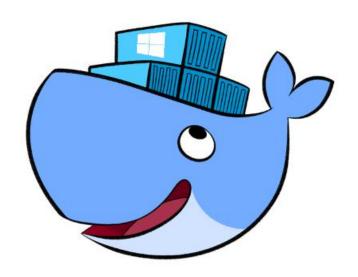
2013 – Docker e Solomon Hykes

2014 – Projeto Windows Server Containers

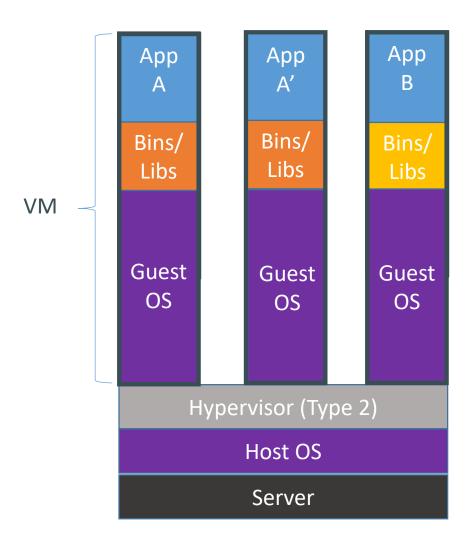
2016 – Windows Server 2016 - Solomon Hykes e Taylor Brown



# Por que Containers e não VMs?

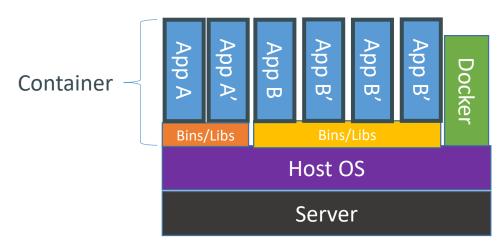


### Por que Containers e não VMs?



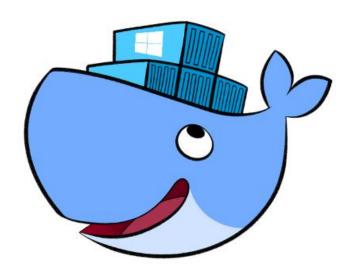
Containers executam isolados, mas compartilham o SO, binários e bibliotecas

...O resultado é uma implementação significativamente mais rápida, muito menos sobrecarga, migração mais fácil, reinicialização mais rápida





# Processo de Instalação









# Formas de Instalação no Windows

## Processo de Instalação

Install-Module DockerMsftProvider –Force

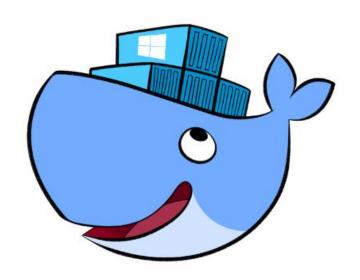
Install-Package Docker -ProviderName DockerMsftProvider -Force

(Install-WindowsFeature Containers).RestartNeeded

Restart-Computer



# Executando seu primeiro container Docker no Windows



#### Executando seu primeiro container Docker no Windows

docker run hello-world:nanoserver

Unable to find image 'hello-world:nanoserver' locally

nanoserver: Pulling from library/hello-world

bce2fbc256ea: Pull complete

3ac17e2e6106: Pull complete

8cac44e17f16: Pull complete

5e160e4d8db3: Pull complete

Digest: sha256:25eac12ba40f7591969085ab3fb9772e8a4307553c14ea72d0e6f98b2c8ced9d

Status: Downloaded newer image for hello-world:nanoserver

Hello from Docker!

This message shows that your installation appears to be working correctly.



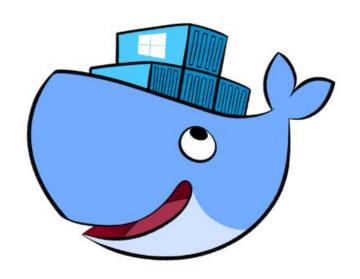
#### Executando sua primeira aplicação container Docker no Windows

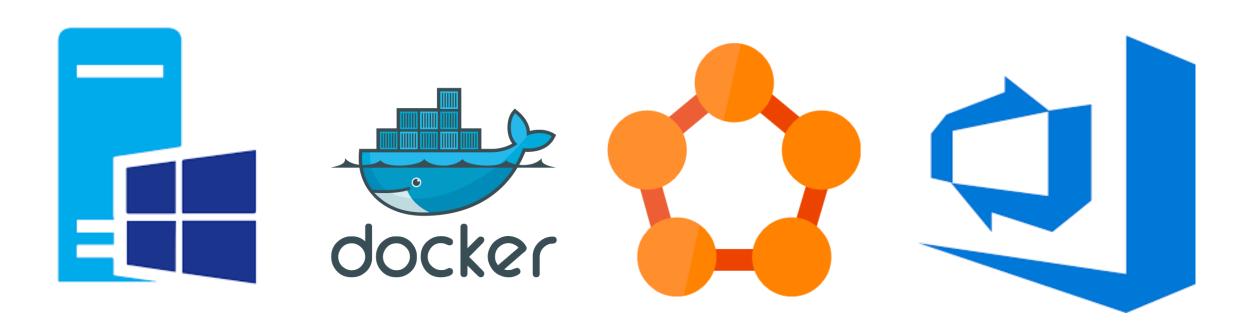
docker container run -d -p 80:80 --name iis microsoft/iis

docker run -it --rm -p 8000:80 --name aspnet\_sample mcr.microsoft.com/dotnet/framework/samples:aspnetapp



# Mas Edson, e na Nuvem como fica?

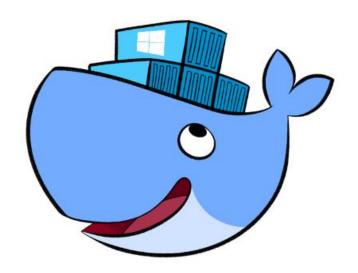




# Casos de Uso



## Docker Windows ou Linux?



#### Docker Windows ou Linux!

#### Semelhanças

- Contêineres de aplicativos.
- Executados nativamente.
- Ambos administrados pelo Docker
- •Eles fornecem os mesmos recursos de portabilidade e modularidade em ambos os sistemas operacionais.
- Docker Swarm
- •Service Fabric
- Kubernetes

#### Diferenças

- •Windows Server 2016+ e Windows 10.
- Compatibilidade de imagens.
- Network

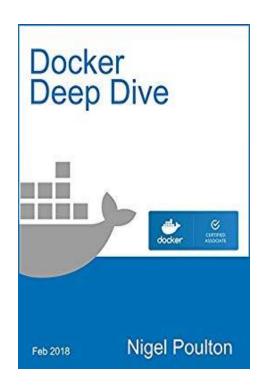


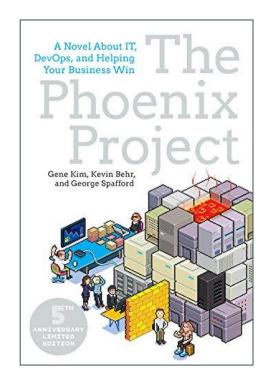
#### Aprenda Mais!

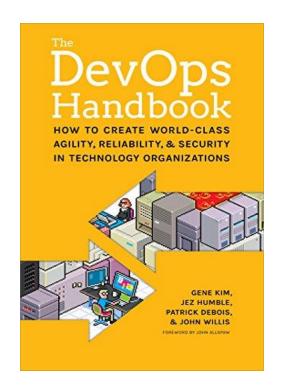
- <a href="https://docs.microsoft.com/pt-br/virtualization/windowscontainers/quick-start/quick-start-windows-server">https://docs.microsoft.com/pt-br/virtualization/windowscontainers/quick-start-windows-server</a>
- <a href="https://docs.microsoft.com/pt-br/dotnet/standard/microservices-architecture/container-docker-introduction/docker-defined">https://docs.microsoft.com/pt-br/dotnet/standard/microservices-architecture/container-docker-introduction/docker-defined</a>
- https://github.com/docker
- https://github.com/docker/labs/tree/master/windows
- https://docs.docker.com/docker-for-windows/
- https://msdn.microsoft.com/en-us/magazine/mt797649

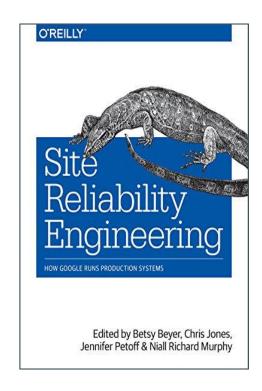


#### Literatura!











## Muito Obrigado!

