Pluralsight - Docker on Windows Cheat Sheet

by andresest83 via cheatography.com/91798/cs/20535/

Docker Analogy

LEGACY	DOCKER	COMMAND
Find software	Docker Hub	
Download software	Pull an image	docker pull
Install software	Create container from image	docker create
Start software	Run the container	docker start
Stop software	Stop the container	docker stop
Uninstall software	Remove the container	docker rm
Not possible	One command for everything!!	docker run

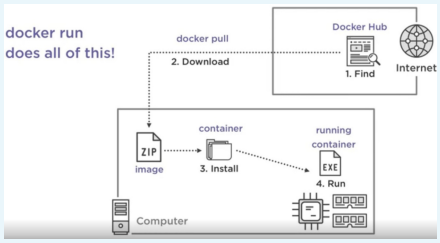
Windows Container Types

	W.SERVER Container	HYPER-V Container
ISOLATION	Process	VM
W.SERVER 2016	Yes	Yes
WINDOWS 10	No	Yes

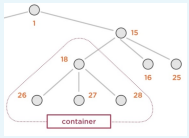
Install Docker WS2016

1. Update Windows
2. Install-Module -Name DockerMsftProvider -Repository PSGallery -Force
3. Install-Package -Name docker -ProviderName DockerMsftProvider -Verbose

Docker vs Traditional Sw



Process Isolation



Docker Image Elements



Commands

docker run -p 80:80 hello--world	Basic hello-world container
docker inspect iis	Return low-level information on Docker objects (e.g: iis container)
docker run --rm	Remove container after it stops its execution
docker run --isolation=hyperv	Run container in hyperv isolation mode
docker save microsoft/iis:nanoserver -o iis.tar	Export image to .tar file
docker run --rm -v c:/Users:/data alpine ls /data	Mount drive

Commands (cont)

docker run --rm -it -v c:/Users/wes:/wes apline tar -xf /wes/iis.tar -C iis	Saving files from the container to the host
docker run --rm -it -v c:/Users/wes:/wes alpine tar -xf /wes/iis.tar -C /wes/iis	Unzipping tar in Linux and saving output in Windows

Windows Examples

1. docker run microsoft/dotnet:nanoserver
2. docker run -it microsoft/dotnet:nanoserver dotnet --version
3. docker run -it microsoft/dotnet:nanoserver powershell

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