Windows Server Containers and DSC

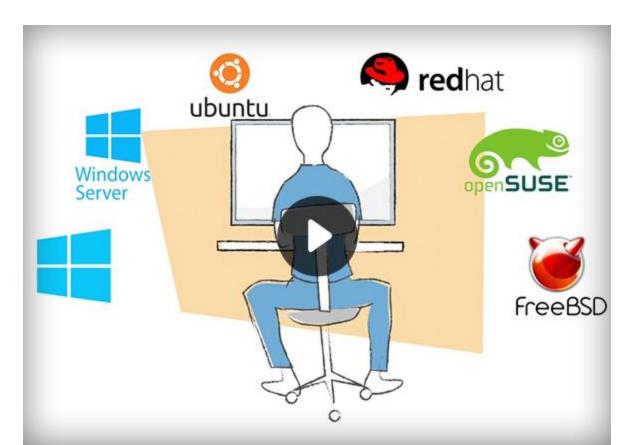
whoami

The goal:

To allow devOps teams to deploy their Application/API on a live running system within seconds of commit.



Server OS virtualization 2006 - 2016



Server virtualization mentality:

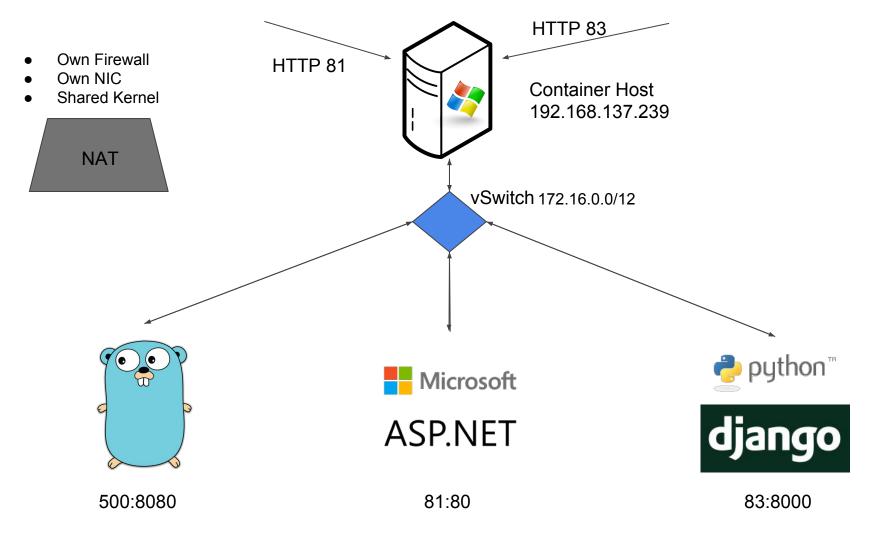
Here's everything, i'm sure within this stuff is exactly what you need somewhere.



Container mentality:

Here's the bare essentials, tell me what you need.





How we achieve our goal

The idea:

Github repositories are the one source of truth and define the *complete* layout of your Application/API.

```
version: '2'
services:
 web:
                                                                Example:
   build: ./web
                                                                Using docker
   networks:

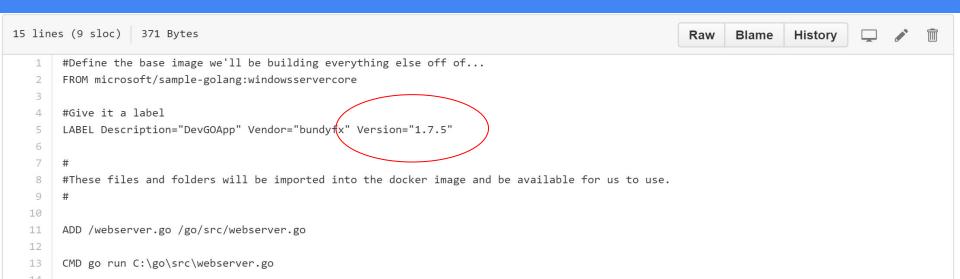
    new

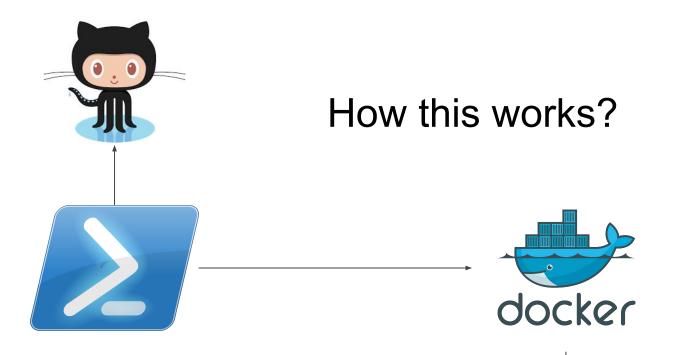
                                                                compose to define the
 worker:
                                                                complete layout of a
   build: ./worker
   networks:
                                                                container and its

    legacy

                                                                associated
 db:
   image: mysql
                                                                environment
   networks:
    new:
      aliases:
       - database
    legacy:
      aliases:
       - mysql
networks:
 new:
 legacy:
```

Our Desired State is the current version number of the Dockerfile on Github. If that changes the container should rebuild.







```
node ("localhost")
11
12 白
             ContainerDeployment 'WebContainer' {
13
   À
                 ContainerName = 'webdev'
15
                 PortMapping = '86:80'
                 ProjectRootPath = 'C:\git\iis'
17
                 ContainerImage = 'mywebapp'
                 ProjectType = 'iis'
18
19
                 SlackWebHook = "$SlackWebHook"
                 GitProjectURL = 'https://github.com/bundyfx/ContainerDeployment.git'
20
21
                 Ensure = 'Present'
22
23
             ContainerDeployment 'DevGoContainer' {
                 ContainerName = 'godev'
24
25
                 PortMapping = '88:8000'
                 ProjectRootPath = 'C:\git\golang'
                 ContainerImage = 'mygolangapp'
27
                 GitProjectURL = 'https://github.com/bundyfx/ContainerDeployment.git'
                 SlackWebHook = "$SlackWebHook"
29
                 ProjectType = 'sample-golang'
                 Ensure = 'Present'
31
32
```

Demo