

PACKER

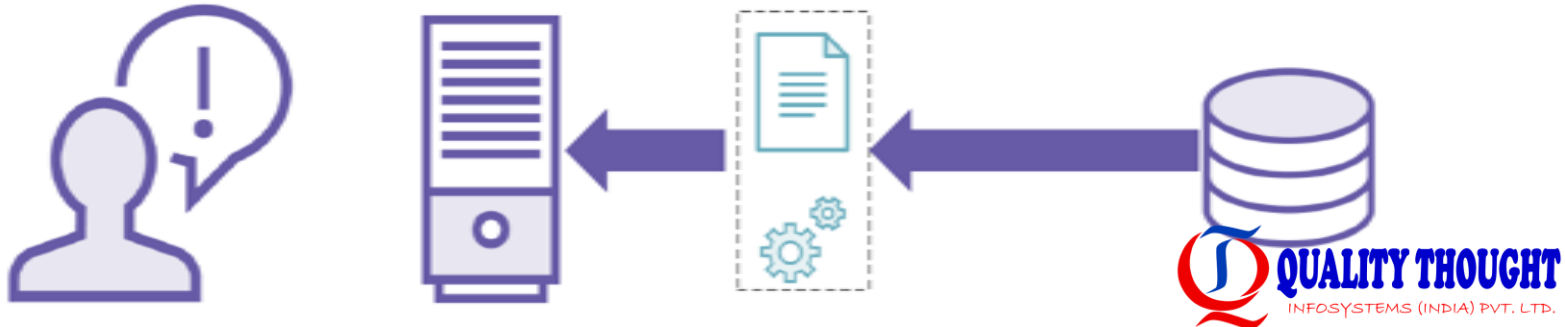


Immutable Infrastructure

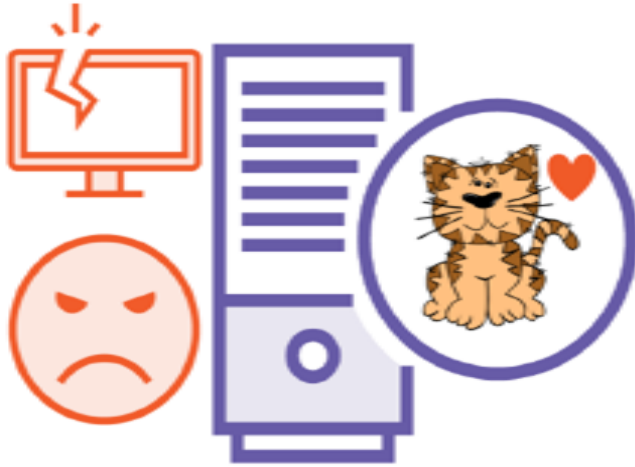
Immutable

Adjective:

Unchanging over time, or unable to be changed



Cats and Cattle, Oh My!



Mittens!



XB306-1

XB306-2

XB306-3

...

Servers - Cats vs. Cattle

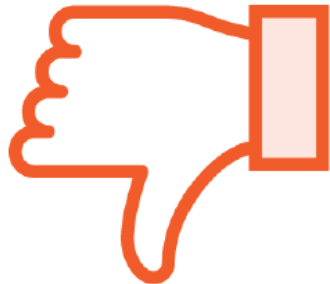
Cats

Kept alive at all costs

Need manual intervention

Difficult to Scale

High-stress



Cattle

Expendable

Work “out of the box”

Easy to Scale

Low-stress



Other Benefits

Testable Infrastructure

Reproduce Production

Unit of Deployment

Confident Changes

When To Use It?

- * **ALL THE TIME!**

- * Except at very small scale

Packer!



Utilize native tools

Integrate with configuration management

Easy to convert to Docker

A Packer Template

```
{  
  "builders": [  
  ],  
  "provisioners": [  
  ],  
  "post-processors": [  
  ]  
}
```



Template



```
{  
  "type": "amazon-ebs",  
  "name": "MyCowServer-AWS",  
  "region": "us-west-2"  
}
```

Builders

Generate your image

Provider-specific

Multiple builders = cross-provider builds!

```
{  
  "type": "shell",  
  "script": "makeMyCowAwesome.sh",  
  "only": [ "MyCowServer-AWS" ]  
}
```

Provisioners

Customize your image

Scripts or configuration management

Can be builder-specific

```
{  
  "type": "compress",  
  "output": "MyCowServer-VirtualBox.tar.gz",  
  "only": ["MyCowServer-VirtualBox"]  
}
```

Post-Processors

Put on the finishing touches

Integration with other services

Key to Docker conversion

INSTALLING PACKER

<https://www.packer.io/downloads.html>

PACKER TEMPLATES

<https://github.com/asquarezone/packer-templates>

<https://github.com/asquarezone/packer-windows>

BUILD INFRA

