

Packer + Docker + Ansible

Building a container with all the versions of
Python

OK. Not all of them.

```
root@b36681570b36:/# python2.6 --version
Python 2.6.9
root@b36681570b36:/# python2.7 --version
Python 2.7.6
root@b36681570b36:/# python3.1 --version
Python 3.1.5
root@b36681570b36:/# python3.2 --version
Python 3.2.5
root@b36681570b36:/# python3.3 --version
Python 3.3.5
root@b36681570b36:/# python3.4 --version
Python 3.4.0
root@b36681570b36:/# pypy --version
Python 2.7.8 (2.4.0+dfsg-1~ppa2+trusty, Sep 25 2014, 04:35:04)
[PyPy 2.4.0 with GCC 4.8.2]
```

Builders

```
"builders": [  
  {  
    "type": "docker",  
    "image": "ubuntu",  
    "commit": true  
  }  
],
```

Provisioners

```
"provisioners": [  
  {  
    "type": "shell",  
    "inline": [  
      "sudo apt-get update",  
      "sudo apt-get install software-properties-common python-apt python-pycurl python-  
pip python-virtualenv -y",  
      "sudo apt-add-repository ppa:ansible/ansible -y",  
      "sudo apt-get update",  
      "sudo apt-get install ansible -y"  
    ],  
  },  
  {  
    "type": "ansible-local",  
    "playbook_file": "provisioning/container.yml"  
  }  
],
```

Playbook

- hosts: all

- tasks:

- apt_repository: repo='ppa:fkruhl/deadsnakes'

- apt_repository: repo='ppa:pypy/ppa'

- apt: pkg={{item}} state=installed update_cache=yes

- with_items:

- python2.6

- python3.1

- python3.2

- python3.4

- pypy

- build-essential

Post Processors

```
"post-processors":[  
  [  
    {  
      "type": "docker-tag",  
      "repository": "esacteksab/pyall",  
      "tag": "0.8"  
    }  
  ]  
]
```

How to build container

packer build docker-ubuntu.json

docker (docker-tag): Tagging image: 3890f113a754e9e63d3e37bd8df45f9152e550339cbfdb8a0bb26a6e503e3509

docker (docker-tag): Repository: esacteksab/pyall:0.9

Build 'docker' finished.

==> Builds finished. The artifacts of successful builds are:

--> docker: Imported Docker image: 3890f113a754e9e63d3e37bd8df45f9152e550339cbfdb8a0bb26a6e503e3509

--> docker: Imported Docker image: esacteksab/pyall:0.9

Publish To Docker Repo

docker images

```
docker push esacteksab/pyall:0.9
```


Resources

www.packer.io

www.docker.com

<http://www.ansible.com>

<https://github.com/esacteksab/packer-pyall>