

# 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 update",
            "sudo apt-get install ansible -y"
        ]
    },
    {
        "type": "ansible-local",
        "playbook_file": "provisioning/container.yml"
    }
],
```

# Playbook

```
---
- hosts: all
  tasks:
    - apt_repository: repo='ppa:fkrull/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](http://www.packer.io)

[www.docker.com](http://www.docker.com)

<http://www.ansible.com>

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