



RUNNING UPSTREAM SPACEWALK TESTS USING ANSIBLE AND VAGRANT

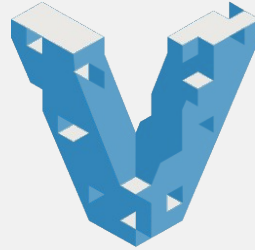
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2. - 3. 5. 2016

INTRODUCTION



SPACEWALK

System management tool



VAGRANT

VM management tool



ANSIBLE

Configuration
management tool

VAGRANT

- VM management tool
- Quick and easy to start, use and destroy VMs
 - `vagrant up`
 - `vagrant ssh`
 - `vagrant destroy`
- Providers: `libvirt`, `virtualbox`, `docker`, ...
- Provisioning: `shell`, `ansible`, `chef`, `puppet`, ...

VAGRANT BOXES

- <https://atlas.hashicorp.com/boxes/search>
- box.img
 - Libvirt image
- Vagrantfile
 - default configuration
- metadata.json

```
{  
  "provider"      : "libvirt",  
  "format"        : "qcow2",  
  "virtual_size"  : 6  
}
```

- `tar czf x.box metadata.json Vagrantfile box.img`

VAGRANTFILE

- Ruby script
- Configuration of VM

```
Vagrant.configure(2) do |config|  
  
  config.vm.box = "Centos"  
  
  config.vm.provision "shell", inline: <<-SHELL  
    yum update -y  
    yum install -y httpd  
  SHELL  
  
end
```

ANSIBLE

- Configuration management tool
- Needs only SSH and Python
- Ad-hoc command
 - `$ ansible localhost -m ping`
- Playbooks and inventories
- Lot of modules
 - `$ ansible-doc --list`

ANSIBLE PLAYBOOKS

- YAML formatted files
- Describes hosts, variables, roles, and tasks
- Run

```
$ ansible-playbook playbook.yml
```

```
---  
- hosts: all  
  tasks:  
  
    - name: Install git  
      yum: git  
      state: present  
  
    - name: ...  
    ...
```

ANSIBLE INVENTORY

- INI formatted file
- Describes groups of hosts

```
s1.example.com
```

```
[webservers]
```

```
www1.example.com
```

```
www2.example.com
```

```
[dbservers]
```

```
db1.example.com
```

```
$ ansible dbservers -i inventory -m ping
```


VAGRANT WITH ANSIBLE

- Vagrantfile + playbook

```
Vagrant.configure(2) do |config|  
  
  config.vm.box = "Fedora23"  
  
  config.vm.provision "ansible" do |ansible|  
    ansible.playbook = "playbook.yml"  
  end  
  
end
```

[Software Channels](#)[All Channels](#)[Popular Channels](#)[My Channels](#)[Shared Channels](#)[Retired Channels](#)[Package Search](#)[Manage Software Channels](#)[Distribution Channel Mapping](#)

CentOS 7 (x86_64)

[Details](#) [Managers](#) [Errata](#) [Packages](#) [Subscribed Systems](#)

Packages

This channel contains the following packages:

0 1 2 3 4 5 6 7 8 9 | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1 - 5 of 5



25 items per page

Package	Summary	Content Provider
gpm-libs-1.20.7-5.el7.x86_64	Dynamic library for for the gpm	CentOS
nspr-4.11.0-1.el7_2.x86_64	Netscape Portable Runtime	CentOS
vim-common-7.4.160-1.el7:2.x86_64	The common files needed by any version of the VIM editor	CentOS
vim-enhanced-7.4.160-1.el7:2.x86_64	A version of the VIM editor which includes recent enhancements	CentOS
vim-filesystem-7.4.160-1.el7:2.x86_64	VIM filesystem layout	CentOS

[Overview](#)[Systems](#)[System Groups](#)[System Set Manager](#)[Advanced Search](#)[Activation Keys](#)[Stored Profiles](#)[Custom System Info](#)[Kickstart](#)[Software Crashes](#)

System Legend

OK

Warning

Critical

System Overview

[View System Groups](#)

0 1 2 3 4 5 6 7 8 9 | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1 - 1 of 1



25 items per page

<input type="checkbox"/>	System	Updates	Errata	Packages	Configs	Crashes	Base Channel	Entitlement
<input type="checkbox"/>	centos-system-5118		0	1	0	(none)	CentOS 7 (x86_64)	Management

[Select All](#)

1 - 1 of 1

[Download CSV](#)



> Overview

> Systems

> All

> Physical Systems

> Virtual Systems

> Out of Date

> Requiring Reboot

> Extra Packages

> Untitled

> Ungrouped

> Inactive

> Recently Registered

> Proxy

> Duplicate Systems

> System Currency

centos-system-5118

Delete System | Add to SSM

Details **Software** Groups Virtualization Audit Events

Errata **Packages** Software Channels Software Crashes

List / Remove Upgrade Install Verify Profiles Extra Packages

Removable Packages

The following packages are installed on this system. Packages may be scheduled for removal by selecting them and clicking "Remove Packages" below.

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

351 - 375 of 378 (0 selected) << < > >>

Filter by Package Name:

25 items per page

<input type="checkbox"/> Package Name	Architecture	Installed
<input type="checkbox"/> sysvinit-tools-2.88-14.dsf.el7	x86_64	04/26/2016
<input type="checkbox"/> tar-1.26-29.el7:2	x86_64	04/26/2016
<input type="checkbox"/> tcp_wrappers-7.6-77.el7	x86_64	Today at 8:28 AM
<input type="checkbox"/> tcp_wrappers-lib-7.6-77.el7	x86_64	04/26/2016



- > Proxy
- > Duplicate Systems
- > System Currency
- > System Groups
- > System Set Manager
- > Advanced Search
- > Activation Keys
- > Stored Profiles
- > Custom System Info
- > Kickstart
- > Software Crashes

<input type="checkbox"/> Package Name 	Architecture	Installed
<input type="checkbox"/> sysvinit-tools-2.88-14.dsf.el7	x86_64	04/26/2016
<input type="checkbox"/> tar-1.26-29.el7:2	x86_64	04/26/2016
<input type="checkbox"/> tcp_wrappers-7.6-77.el7	x86_64	Today at 8:28 AM
<input type="checkbox"/> tcp_wrappers-libs-7.6-77.el7	x86_64	04/26/2016
<input type="checkbox"/> teamd-1.17-6.el7_2	x86_64	04/26/2016
<input type="checkbox"/> trousers-0.3.13-1.el7	x86_64	04/26/2016
<input type="checkbox"/> tuned-2.5.1-4.el7_2.3	noarch	04/26/2016
<input type="checkbox"/> tzdata-2016d-1.el7	noarch	04/26/2016
<input type="checkbox"/> usermode-1.111-5.el7	x86_64	Today at 8:28 AM
<input type="checkbox"/> ustr-1.0.4-16.el7	x86_64	04/26/2016
<input type="checkbox"/> util-linux-2.23.2-26.el7_2.2	x86_64	04/26/2016
<input type="checkbox"/> > vim-common-7.4.160-1.el7:2	x86_64	Today at 8:30 AM
<input type="checkbox"/> vim-enhanced-7.4.160-1.el7:2	x86_64	Today at 8:30 AM
<input type="checkbox"/> vim-filesystem-7.4.160-1.el7:2	x86_64	Today at 8:30 AM
<input type="checkbox"/> vim-minimal-7.4.160-1.el7:2	x86_64	04/26/2016
<input type="checkbox"/> virt-what-1.13-6.el7	x86_64	04/26/2016
<input type="checkbox"/> wget-1.14-10.el7_0.1	x86_64	Today at 8:28 AM
<input type="checkbox"/> which-2.20-7.el7	x86_64	04/26/2016
<input type="checkbox"/> wpa_supplicant-2.0-17.el7_1:1	x86_64	04/26/2016



THANK YOU



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