

#ANSIBLEFEST2019

There's a role for that!

How to evaluate community roles for your playbooks

Jeff Geerling (geerlingguy)



ANSIBLE

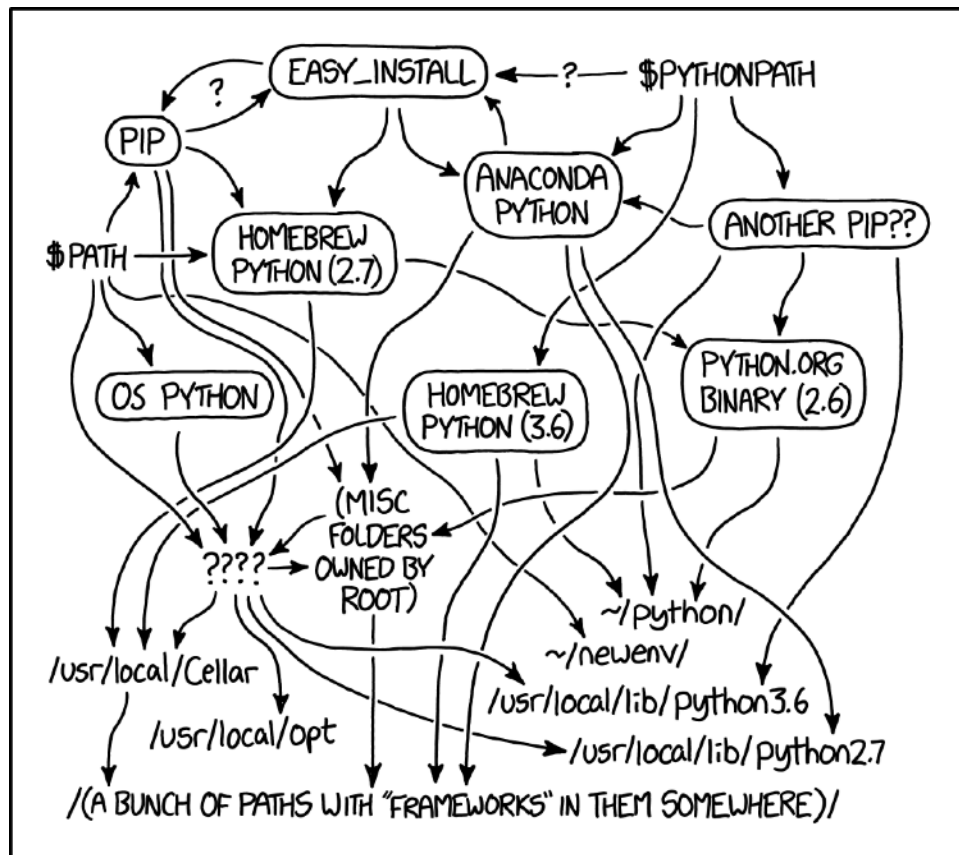
Jeff Geerling (geerlingguy)



- Author of *Ansible for DevOps*
- Maintainer of 99 Galaxy roles and collections
- "An inflammatory enigma"

Managing Risk in

Managing Risk in Dependency Hell



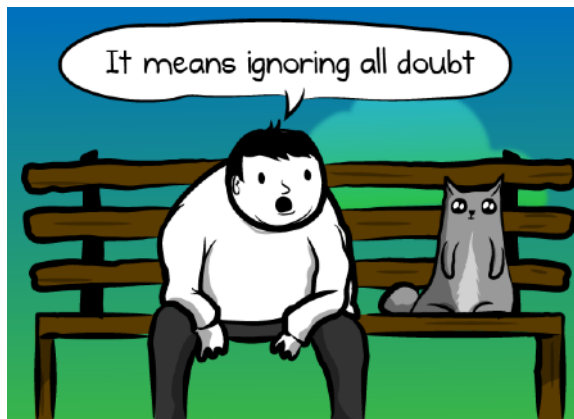
MY PYTHON ENVIRONMENT HAS BECOME SO DEGRADED
THAT MY LAPTOP HAS BEEN DECLARED A SUPERFUND SITE.

The following packages have unmet dependencies:

postgresql-9.3 : Depends: postgresql-client-9.3 but it is not going to be installed

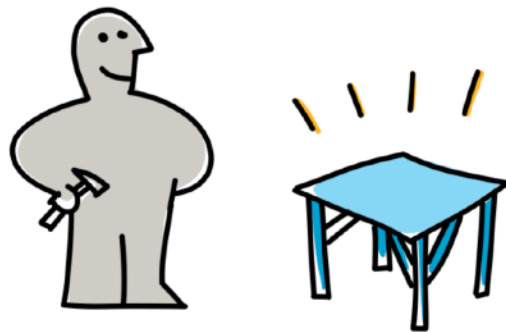
Depends: postgresql-common (>= 142~) but it is not going to be installed

E: Unable to correct problems, you have held broken packages.



IKEA EFFECT

THE EXAGGERATEDLY HIGH
VALUE AND ATTACHMENT
PLACED ON PRODUCTS THAT
YOU BUILD YOURSELF, REGARDLESS
OF THE END RESULT QUALITY.

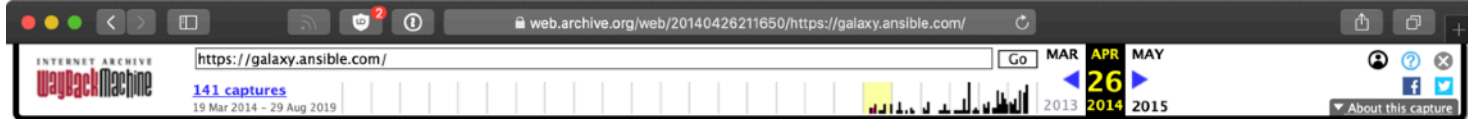


GABRIEL KRIESHOK

The background features a light gray dot grid pattern. On the left side, there are several concentric circles in varying shades of gray, creating a ripple effect. On the right side, there are larger, more diffuse concentric circles in a similar gray tone.

#ANSIBLEFEST2019

Ansible Galaxy



[About](#) [Explore](#) [Browse Roles](#) [Browse Users](#)

ANSIBLE GALAXY

Ansible Galaxy is your hub for finding, reusing, and sharing the best Ansible content.

BETA
Welcome to our BETA release!

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To start discovering, using and sharing Ansible content.

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Ansible Galaxy jump-starts your automation projects with great content from the Ansible community.

Ansible calls these pre-packaged units of automation [roles](#). Once downloaded, roles can be dropped into Ansible PlayBooks and immediately applied to your infrastructure.



Share

Help other Ansible users by sharing great Ansible roles that you have created.

Top content authors will be featured, achieving worldwide fame. Or at least, fame on the internet among developers and sysadmins just like yourself!



Review

Help others find great automation content by reviewing roles that you have used.

Reviews are rated too, so reviewers with the most karma rise to the top. You'll find great new things just by surfing the reviews of top reviewers!

Ansible Galaxy - Choosing a Role

1. What do I need?
2. How do I find it?
3. How do I narrow down search results?
4. How do I select the one I am going to use?

Real-world example: Zabbix

```
11:52:55 ~ $ docker run -d --privileged --name zabbix -p 8080:80 geerlingguy/docker-centos7-ansible /usr/lib/systemd/s
ysystemd
5489623c35a7d319db0a413233b9871475eaa39410884db3932f8db279518125
11:52:57 ~ $ docker exec -it zabbix /bin/bash
[root@5489623c35a7 /]#
```



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```



Graphs

Group all

Host all

Graph CPU utilization

View as

Graph



Zoom out

Last 15 minutes

From now-15m

To now

Apply

Last 2 days

Yesterday

Today

Last 5 minutes

Last 7 days

Day before yesterday

Today so far

Last 15 minutes

Last 30 days

This day last week

This week

Last 30 minutes

Last 3 months

Previous week

This week so far

Last 1 hour

Last 6 months

Previous month

This month

Last 3 hours

Last 1 year

Previous year

This month so far

Last 6 hours

Last 2 years

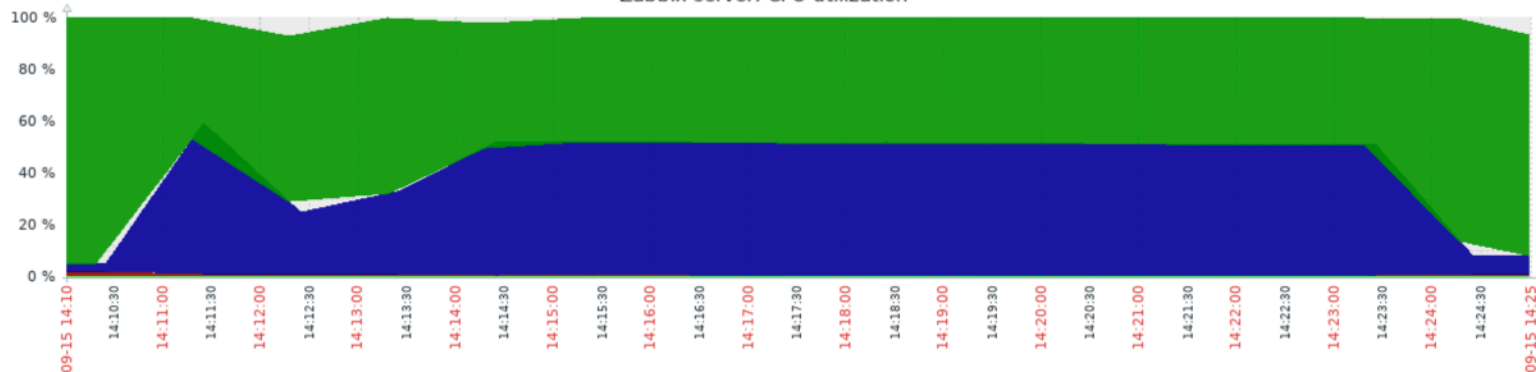
This year

Last 12 hours

This year so far

Last 1 day

Zabbix server: CPU utilization



		last	min	avg	max
CPU idle time	[avg]	85.8234 %	48.4159 %	57.1574 %	95.3732 %
CPU user time	[avg]	6.6146 %	3.0413 %	42.1629 %	58.0089 %
CPU system time	[avg]	0.8317 %	0.1504 %	0.5111 %	1.3429 %
CPU iowait time	[avg]	0.0672 %	0.0421 %	0.0782 %	0.1772 %
CPU nice time	[avg]	0 %	0 %	0 %	0 %

ansible-galaxy find-best-role zabbix

ansible-galaxy find-best-role zabbix

(that's not an actual command, sorry)



Search

zabbix



Filters (162 results)

Roles 162



dj-wasabi

zabbix-agent

Installing and maintaining zabbix-agent for RedHat/Debian/Ubuntu/Windows/Suse.

4.7 / 5 Score 583045 Downloads
Last Imported: 5 days ago



monitoring

zabbix

build

passing



dj-wasabi

zabbix-server

Installing and maintaining zabbix-server for RedHat/Debian/Ubuntu.

5 / 5 Score 9241 Downloads
Last Imported: 7 days ago



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Installing and maintaining zabbix-web for RedHat/Debian/Ubuntu.

4.8 / 5 Score 5683 Downloads
Last Imported: 24 days ago



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Installing and maintaining zabbix-proxy for RedHat/Debian/Ubuntu.

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Popular Tags

system

6,130

development

2,971

web

2,507

monitoring

1,342

networking

1,093

database

1,030

cloud

977

packaging

815

ubuntu

812

docker

795

Popular Platforms

Ubuntu

86,742

EL

17,075



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Community Authors > dj-wasabi > zabbix-server



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5 / 5 Score 9302 Downloads

Follow Role

Issue Tracker

GitHub Repo

build passing

Details

Read Me

Info

Minimum Ansible Version

2.4

Installation

```
$ ansible-galaxy install dj-wasabi.zabbix-server
```

Last Commit

9 days ago

Last Import

9 days ago

Tags

monitoring

zabbix

Content Score

Quality Score



5 / 5

Last scored 9 days ago. [Show Details](#)

Community Score



5 / 5

Based on 1 survey. [Show Details](#)

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5 / 5 ⓘ

Last scored 9 days ago. [Show Details](#)

Community Score



5 / 5 ⓘ

Based on 1 survey. [Show Details](#)

Tell us about this role

Quality of docs?



Ease of use?



Does what it promises?



Works without change?



Ready for production?



OS Platforms

Debian	squeeze
Debian	wheezy
EL	6
EL	7
Ubuntu	lucid
Ubuntu	precise
Ubuntu	trusty

Versions

1.5.0	5 months ago
1.4.0	10 months ago
1.3.0	a year ago
1.2.0	a year ago
1.1.0	a year ago
1.0.0	2 years ago
0.8.0	2 years ago
0.7.0	3 years ago

Final Step: Code Review and Test

- Make sure role does what I expect
- Make sure role is logical and maintainable
 - Is it how I would write it? Does it make sense?
- Test playbook in local VM or container

Avoiding Bad Judgement



2,509

main.yml

x

```
1  ---
2  # Stress is almost never a useful helper. Also, this task only works on Red Hat
3  # and its derivatives; it will break if you try running it on Debian or Ubuntu,
4  # both of which are listed as supported OSes in meta/main.yml.
5  - name: Install useful helper utilities.
6    yum:
7      name: stress
8      state: present
9      # This parameter requires Ansible 2.8, but this role specifies a
10     # min_ansible_version of 2.4, so it errors out on Ansible < 2.8. SMH.
11     lock_timeout: 5
12
13  # This is just mean.
14  - name: Make sure the system has something to do.
15     command: stress --cpu 1 --timeout 120
16     changed_when: false
17     async: 45
18     poll: 0
19
20  # This task won't ever be run on any of the supported OSes; it's just wasting
21  # space and adds to the burden of maintaining this role. The task also uses the
22  # shell module inappropriately (the command module would be better), but mutes
23  # the lint warning inline to cover its sin.
```

```
15  command: stress --cpu 1 --timeout 120
16  changed_when: false
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18  poll: 0
19
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21  # space and adds to the burden of maintaining this role. The task also uses the
22  # shell module inappropriately (the command module would be better), but mutes
23  # the lint warning inline to cover its sin.
24  - name: Get a list of the files in the preserved files directory.
25    shell: ls {{ preserve_files_dir }}
26    register: preserve_files_listing
27    when: ansible_os_family == 'AIX'
28    tags: ['skip_ansible_lint']
29
30  # This task actually does the opposite of what the documentation says
31  # preserve_files should do! It also removes the /tmp dir by default, which could
32  # be dangerous.
33  - name: Clean up preserve_files_dir if configured.
34    file:
35      path: "{{ preserve_files_dir }}"
36      state: absent
37    when: preserve_files
38    notify: preserve_file_handler
39
```



main.yml

✕

```
1  ---
2  # "This is getting out of hand. Now there are Tw0 of them!"
3  - name: preserve_file_handler
4    command: stress --cpu 1 --timeout 120
5    changed_when: false
6    async: 45
7    poll: 0
8
```


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**Code Review
prevents
Bad Judgement!**

Ansible Galaxy Collections

Ansible Collections

- Opportunities and challenges
 - **Discoverability:** Plugins and modules don't affect quality score
 - **Maintenance:** Who maintains community content?
 - **Trust:** Source repository/reproducible build?

In conclusion...

#ANSIBLEFEST2019

THANK YOU



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