## MISE À JOUR 1.0!







#### **DAVID MOREAU SIMARD**

Ansible Montréal - Novembre 2017





> HTTPS://GITHUB.COM/OPENSTACK/ARA/README.RST
ARA records Ansible playbook runs and makes the recorded data

available and intuitive for users and systems.



```
2017-04-12 12:01:34.214048
2017-04-12 12:01:34.214134 | TASK [openstack-ansible-security : Initialize AIDE (this will take a few minutes)] ***
2017-04-12 12:01:34.232636 | Wednesday 12 April 2017 12:01:34 +0000 (0:00:00.184)
                                                                            0:00:59.018 ******
2017-04-12 12:01:34.265490 | skipping: [aio1]
2017-04-12 12:01:34.288522 |
2017-04-12 12:01:34.288576 | TASK [openstack-ansible-security : Move AIDE database into place] ***************
2017-04-12 12:01:34.306537 | Wednesday 12 April 2017 12:01:34 +0000 (0:00:00.073)
                                                                            0:00:59.092 ******
2017-04-12 12:01:34.318924 |
2017-04-12 12:01:34.318972 | TASK [openstack-ansible-security : Create AIDE cron job] *************************
2017-04-12 12:01:34.336402 | Wednesday 12 April 2017 12:01:34 +0000 (0:00:00.029)
                                                                            0:00:59.122 ******
2017-04-12 12:01:34.348275 |
2017-04-12 12:01:34.348323 | TASK [openstack-ansible-security : Configure AIDE to verify additional properties] ***
2017-04-12 12:01:34.365565 | Wednesday 12 April 2017 12:01:34 +0000 (0:00:00.029)
                                                                            0:00:59.151 ******
2017-04-12 12:01:34.378115
2017-04-12 12:01:34.396591 | Wednesday 12 April 2017 12:01:34 +0000 (0:00:00.030)
                                                                            0:00:59.182 ******
2017-04-12 12:01:34.489629 | included: /etc/ansible/roles/openstack-ansible-security/tasks/rhel7stig/auditd.yml for aio1
2017-04-12 12:01:34.549208
2017-04-12 12:01:34.549288 | TASK [openstack-ansible-security : Verify that auditd.conf exists] **************
```

- 35 000 LIGNES !!
- 10 MB!!







2017-10-19 21:14:08

setup-openstack.yml

② 1:01:10 > ♥ Parameters > 

19 Hosts > 

53 Plays > 

161 Files 

✓ 

2904 Tasks > 

0 Records

3

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	-	_	•••	_	

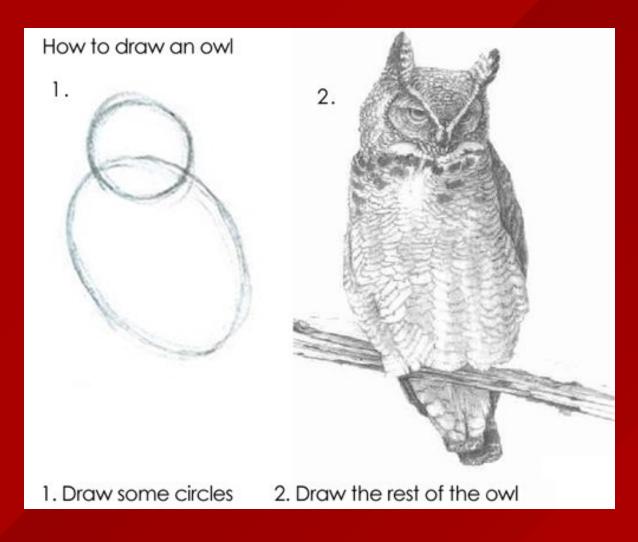
				1	
Task	Host	Action	Elapsed ^	Duration	Status
Ensure Rabbitmq vhost	aio1_keystone_container-bd5de70d	rabbitmq_vhost	0:00:00	0:00:02	CHANGED
Ensure rabbitmq user	aio1_keystone_container-bd5de70d	rabbitmq_user	0:00:02	0:00:04	CHANGED
Create DB for service	aio1_keystone_container-bd5de70d	mysql_db	0:00:07	0:00:01	CHANGED
Grant access to the DB for the service	aio1_keystone_container-bd5de70d	mysql_user	0:00:08	0:00:01	CHANGED
include	aio1_keystone_container-bd5de70d	include	0:00:10	0:00:00	SKIPPED
Set default bind mounts (bind var/log)	aio1_keystone_container-bd5de70d	set_fact	0:00:10	0:00:00	OK
Ensure mount directories exists	aio1_keystone_container-bd5de70d	file	0:00:10	0:00:01	OK
Add bind mount configuration to container	aio1_keystone_container-bd5de70d	lineinfile	0:00:12	0:00:01	CHANGED
Extra lxc config	aio1_keystone_container-bd5de70d	lineinfile	0:00:13	0:00:00	SKIPPED
Extra lxc config no restart	aio1_keystone_container-bd5de70d	lineinfile	0:00:13	0:00:00	CHANGED
Lxc container restart	aio1_keystone_container-bd5de70d	command	0:00:14	0:00:02	CHANGED
Start Container	aio1_keystone_container-bd5de70d	command	0:00:16	0:00:00	CHANGED
Wait for container connectivity	aio1_keystone_container-bd5de70d	wait_for_connection	0:00:17	0:00:03	OK
Create log dir	aio1_keystone_container-bd5de70d	file	0:00:21	0:00:00	SKIPPED
Create log aggregation links	aio1_keystone_container-bd5de70d	file	0:00:21	0:00:00	SKIPPED
test proxy URL for connectivity	aio1_keystone_container-bd5de70d	uri	0:00:21	0:00:00	OK
Drop apt package manager proxy	aio1_keystone_container-bd5de70d	сору	0:00:22	0:00:01	CHANGED
Update apt when proxy is added	aio1_keystone_container-bd5de70d	apt	0:00:24	0:00:03	CHANGED
Add keystone reserved port to physical host	aio1_keystone_container-bd5de70d	sysctl	0:00:27	0:00:00	SKIPPED
pip_install : Gather variables for each operating system	aio1_keystone_container-bd5de70d	include_vars	0:00:27	0:00:00	OK
pip_install : Remove unneeded files from previous releases	aio1_keystone_container-bd5de70d	file	0:00:27	0:00:01	OK
pip_install : Create pip config directory	aio1_keystone_container-bd5de70d	file	0:00:29	0:00:01	CHANGED
pip_install : Drop pip file(s)	aio1_keystone_container-bd5de70d	сору	0:00:30	0:00:01	CHANGED
pip_install : Drop pip config	aio1_keystone_container-bd5de70d	config_template	0:00:31	0:00:00	CHANGED
pip_install : Remove known problem packages	aio1_keystone_container-bd5de70d	package	0:00:32	0:00:00	0K



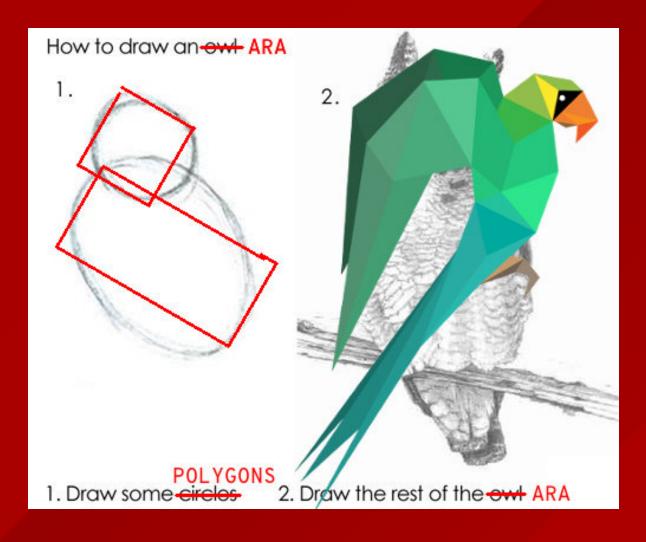














### INSTALLATION ET UTILISATION

```
$ pip install ansible ara
[\ldots]
$ export ANSIBLE CALLBACK PLUGINS=/usr/lib/python2.7/site-packages/ara/plugins/callbacks
$ ansible-playbook -i hosts test.yml
[\ldots]
$ ara playbook list
                      Time Start
                                             Duration
                                                         Complete
                                                                    Ansible Version
  <uuid> | test.yml |
                     2017-04-09 01:49:48
                                            0:00:04
                                                         True
                                                                    2.2.2.0
$ ara-manage runserver
 * Running on http://127.0.0.1:5000/
```



1.0

- Commits 124	∄ Files changed 102	☐ Commit comments 0							
Showing 102 changed files with 6.469 additions and 2.711 deletions.									





#### Avant

#### **Après**



## ENTRÉE DE DONNÉES (INPUT)

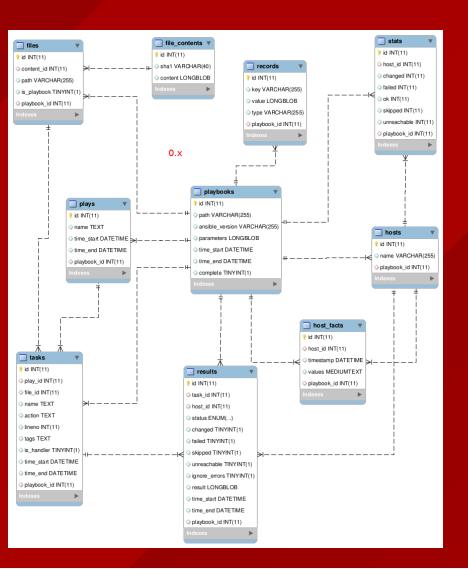
- Callback Ansible
- Pure REST
- Message queue (rabbitmq, mqtt, etc.)
- ...

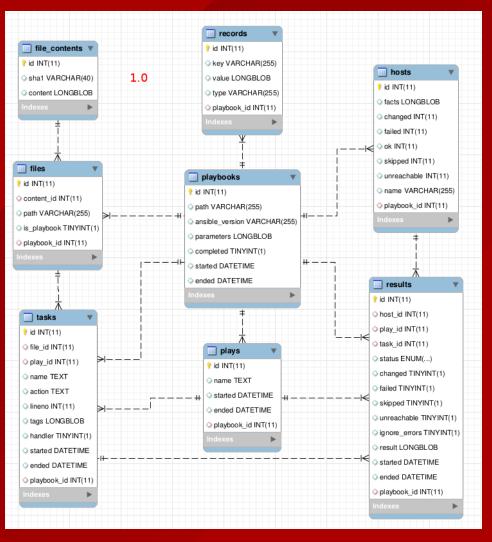
## SORTIE DE DONNÉES (OUTPUT)

- Web
- HTML
- Subunit
- jUnit
- elasticsearch/logstash
- influxdb/graphite
- ...











#### STOCKAGE DE TOUT LES FICHIERS

- $\checkmark$   $\Box$  integration
  - - 🗗 all.yml
  - ∨ □ host vars
    - ট্র localhost.yml
  - ∨ □ roles
    - ∨ □ smoke-tests
      - ∨ □ defaults
        - 🖟 main.yml
      - ∨ □ handlers
        - ு main.yml
      - ∨ 🗀 meta
        - 🖟 main.yml
      - - ு ara-ops.yml
        - ு main.yml
        - டு test-ops.yml
    - 🖟 smoke.yml

MEILLEUR AFFICHAGE DES HOSTS, PLAYS, ROLES ET LEUR RELATIONS

**REGROUPEMENT DE PLAYBOOKS LOGIQUE ("PHASES")** 

NOMS DE PLAYBOOKS (EX: "INSTALL MYSQL" VS "PLAYBOOK.YML")



- ENREGISTREMENT D'EXÉCUTIONS "ADHOC" ("ANSIBLE" VS "ANSIBLE-PLAYBOOK")
- SUPPORT POUR LE MODE "--CHECK" (DRY-RUN)
- SUPPORT POUR LE MODE "--DIFF"



## **QUAND?**

BETA: SEPTEMBRE 2017

## **OU EN SAVOIR PLUS?**



Documentation: docs.ansible.com

**Source:** github.com/ansible/ansible

IRC: #ansible @ freenode

#ansible-devel @ freenode



Documentation: ara.rtfd.io

Source: github.com/openstack/ara

IRC: #ara @ freenode

Demo: bit.ly/ara-demo-013



# MERCI! QUESTIONS?



Documentation: docs.ansible.com

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IRC: #ansible @ freenode

#ansible-devel @ freenode



Documentation: ara.rtfd.io

Source: github.com/openstack/ara

IRC: #ara @ freenode

**Demo:** bit.ly/ara-demo-013