



Ansible v2

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- Demo (CloudStack)

/me

- René Moser aka **resmo**
- Linux System Engineer @ SWISS TXT
- Likes **open, simple, distributed, plain** text things
- Ansible **Core Committer**

Know your Audience

Why Ansible v2?



Ansible v2

- Refactored Core
- Clean architecture
- Testable OOP code
- Backwards compatible (...)

Modules!

- +200 new modules
 - **CloudStack**, OpenStack, AWS modules
 - Windows modules
 - ...

Generic Package Manager

```
1 ---|
2 - .hosts: .web
3 ..gather_facts: .yes
4 ..tasks:
5 .....- .package: .name={{ .pkg. }}
```


Helpful Error reporting

```
resmo@stxtc00039 > ~/tmp
```

```
$ ansible-playbook test.yml -i hosts
```

```
ERROR! no action detected in task
```

The error appears to have been in '/home/resmo/tmp/test.yml': line 4, column 6, but may be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

```
tasks:
```

```
- atp: name=nginx
    ^ here
```

```
✗ resmo@stxtc00039 > ~/tmp
```

```
$
```

Tasks Blocks

- DRY
 - Many similar tasks arguments → one block

```
1 ---|
2 - .hosts: .webservers
3 - .tasks:
4 - .- .block:
5 - .- .yum: .name={{ .item }}
6 - .- .with_items:
7 - .- .nginx
8 - .- .memcached
9
10 - .- .template: .src=nginx.conf.j2 .dest=/etc/nginx/nginx.conf
11
12 - .- .service: .name=nginx .state=started .enabled=yes
13 - .- .when: .ansible_distribution == 'CentOS'
14 - .- .become: .true
15 - .- .become_user: .root
```

Tasks Blocks

- block, rescue, always
 - rescue: run tasks after a fail
 - always: clean-up or restore

```
1 ---|
2 -. hosts: .webserver
3 .. tasks:
4 .... -. local_action:
5 ..... module: .cs_vmsnapshot
6 ..... name: .Snapshot .before .upgrade
7 ..... vm: . "{{ .inventory_hostname_short }}"
8 ..... snapshot_memory: .yes
9
10 .... -. block:
11 ..... -. shell: . /bin/false
12
13 ..... except:
14 ..... -. local_action:
15 ..... module: .cs_vmsnapshot
16 ..... name: .Snapshot .before .upgrade
17 ..... vm: . "{{ .inventory_hostname_short }}"
18 ..... state: .revert
19
20 ..... always:
21 ..... -. local_action:
22 ..... module: .cs_vmsnapshot
23 ..... name: .Snapshot .before .upgrade
24 ..... vm: . "{{ .inventory_hostname_short }}"
25 ..... state: .absent
```


Strategy Plugins

- Existing: linear
- New in v2: free

```
1 ---|
2 - .hosts: .all
3 ..strategy: .free
4 ..roles:
5 .....- .role: .common
6 .....- .role: .ssh-access
7 .....- .role: .monitoring
```

Ansible 2.1

- NetOps → Network Modules (beta)
- Ansible-Console
- Diff support to modules
- Extra modules → separate package
- Windows modules ~~beta~~
- Tests, tests, tests

Demo

Deploying an application to the cloud from 0 to hero.

- Exoscale (CloudStack)
- Java App (Yacy Search Engine)

Questions?

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