



Using Ansible on Fedora

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Today's Topics

1. What is Ansible
2. Features
3. Demos

What is Ansible

Ansible is



- Ansible is Simple IT Automation

From <http://www.ansible.com/>

Ansible is

- Ansible is a free software platform for configuring and managing computers...
- It manages nodes over SSH or PowerShell and requires Python (2.4 or later) to be installed on them. Modules work over JSON and standard output and can be written in any programming language.

From [https://en.wikipedia.org/wiki/Ansible_\(software\)](https://en.wikipedia.org/wiki/Ansible_(software))

Features

Features

- OpenSSH as transport
 - SysAdmins, you do not need to open more ports on the firewall

Features

- Parallel-ordered execution
 - Ansible will execute on the machines in parallel, no need to wait for one machine to finish

Features

- No agent required on servers!
 - Do you still remember the awful times installing Puppet/Chef agents to tens of thousands of newly arrived machines?

Features

- YAML awesomeness
 - Awesome easy reading config

- hosts: nodes

remote_user: user

sudo: yes

tasks:

- name: update timezone

shell: timedatectl set-timezone Asia/Shanghai

- name: Update time

shell: ntpdate ntpserver.zsun.org

Demonstration

Demonstration

- Prepare:
 - Install Ansible on your workstation
 - `sudo dnf install ansible`
 - `pip install ansible`

Demonstration

- `cat /etc/ansible/hosts`
 - `[dbservers]`
 - `db01.intranet.mydomain.net`
 - `10.25.1.56`
 - `10.25.1.57`
 - `db-[99:101]-node.example.com`
 - `[nodes]`
 - `10.30.1.22`
 - `10.30.1.30`

Demonstration

- `$ ansible nodes -m ping -u zsun`

```
10.30.1.22 | success >> {
```

```
  "changed": false,
```

```
  "ping": "pong"
```

```
}
```

```
10.30.1.30 | success >> {
```

```
  "changed": false,
```

```
  "ping": "pong"
```

```
}
```

Demonstration

- `$ ansible nodes -m command -a 'echo hello' -u zsun`

```
10.30.1.22 | success | rc=0 >>  
hello
```

```
10.30.1.30 | success | rc=0 >>  
hello
```

Demonstration

- `$ ansible-playbook --ask-sudo-pass ntpdate.yml`

```
[sztsian@zsun-fedoraproject ~]$ ansible-playbook --ask-sudo-pass ntpdate.yml
SUDO password:

PLAY [nodes] *****

GATHERING FACTS *****
ok: [10.30.1.22]
ok: [10.30.1.30]

TASK: [update timezone] *****
changed: [10.30.1.22]
changed: [10.30.1.30]

TASK: [Update time] *****
changed: [10.30.1.22]
changed: [10.30.1.30]

PLAY RECAP *****
10.30.1.22           : ok=3    changed=2    unreachable=0    failed=0
10.30.1.30           : ok=3    changed=2    unreachable=0    failed=0
```


More examples

- <https://github.com/ansible/ansible-examples>

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Questions?



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