

Playbook

```

---
- name: Create FW rule
  hosts: all
  gather_facts: no
  roles:
- role: robert decock.mysql
  become: yes
  vars:
    mysql_username: tony
  tasks:
- include_tasks: tasks/ useful.yml
- firewall:
  vars:
    ansible_facts`
  port: "{{ http_port | default('88') }}/tcp "
  service: http
  source: 192.0.0.0/24
  zone: public
  state: enabled
  permanent: yes #(persist reboot)
  immediate: yes #(enable now)
- name: Generate password
  shell: pwgen -N 1 -s 30
  register: myPass
- name: Print the generated password
  debug:
    msg: "The password is {{ myPass }}";

```

- When the option expects a variable as parameter, you don't need double curly breaths around variables.

- When line start with a variable like on the `port` line above, you **must** use double quote " around the variable.

- Boolean value accept: **yes, true, True, TRUE** and **no, NO, false, FALSE**

Block

```

- hosts: server1
  tasks:
- name: Install git and restart nginx
  block:
- name: install Git
  yum: name=git state=present
- name: Restart nginx
  service: name=nginx state=restarted
  become: yes
  when: ansible_facts['distribution'] != 'CentOS'
  rescue: # Do this if the task fail
- mail:

```



Block (cont)

```
> to: admin@domain.com
subject: Houston, We've Got a Problem
body: task {{ ansible_failed_task.name }}
always: # Always do this
- mail:
  to: user@domain.com
  subject: "{{ ansible_play_name }} status"
  body: "{{ ansible_failed_result }}"
```

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Variables precedences

Link to Ansible doc: <https://shorturl.at/HMZ05>

Magic Variables

<code>hostvars[<i>srv1</i>].ip_address</code>	Get vars value defined for another host
<code>hostvars[<i>srv1</i>].ansible_facts.mounts</code>	Get facts value from another host
<code>hostvars[<i>srv1</i>][<i>ansible_facts</i>][<i>mounts</i>]</code>	Same as above written differently
<code>group_names</code>	Get all groups the current host is part of
<code>inventory_hostname</code>	Get the current host name define in inventory not the FQDN

Performances tuning

<code>gather_facts: False</code>	Disable facts gathering
<code>forks=50</code> (in <code>ansible.cfg</code>)	or <code>--forks 50</code> or <code>-f 50</code> on CLI (default is 5)
<code>[ssh_connection]</code> (in <code>ansible.cfg</code>)	
<code>ssh_args = -o ControlMaster=auto -o ControlPersist=60s</code>	
<code>pipelining = True</code> (in <code>ansible.cfg</code>)	Reduce the number of SSH connections
<code>strategy: free</code>	Execute tasks without waiting for other hosts to finish their tasks

Use mitogen if you can:

https://mitogen.networkgenomics.com/ansible_detailed.html

Inventory

```
all:
  hosts:
    mail.example.com:
      ansible_host: 192.168.1.230
      ansible_user: mailmin
    children:
      web_servers:
        hosts:
          firewall001:
            ansible_host: 192.168.1.231
```

ansible.cfg precedence

1. `$ANSIBLE_CONFIG`
2. `ansible.cfg` in `playbook dir`
3. `~/ansible.cfg`
4. `/etc/ansible/ansible.cfg`

Error Handling

<code>any_errors_fatal: true</code>	Will stop & exit playbook if any error
<code>ignore_errors: true</code>	Execute next tasks on failed hosts
<code>failed_when: <condition></code>	Task fail when condition is met

Avoid using `shell` or `command` modules, they will simply execute the command without any validations, use the appropriate module.

Ansible tips & tricks

Make your playbook executable

Add the following sheebang at the top of your palybook:

```
#!/usr/bin/ansible
```

and add the executable bit to your playbook file

```
chmod +x <my_playbook.yml>
```

Now you can execute your playbook like a regular script `./my_playbook.yml`



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