

★ Chapter: 09 TROUBLESHOOTING ANSIBLE

Troubleshooting playbooks

By default; Red Hat Ansible Engine \neq configure log output to any log file.

Have to; 'log-path' in ansible.cfg in 'defaults' section to create logs & store in file.

Also \$-ANSIBLE-LOG-PATH env can be used.

logs are stored from 'ansible' commands & 'ansible-playbook' commands.

★ Debug module.

- name: Display free memory.

debug:

msg: "Free memory is: {{ ansible_facts['memtotal'] }}"

- name: vars.

debug:

var: result

Debug module provides insight into what is happening in the play.

\$ ansible-playbook playbook.yml --syntax-check

→ Checks the syntax for the playbook.

\$ ansible-playbook play.yml --step

→ Interactively prompts for confirmation that you want each task to run.

\$ ansible-playbook playbook.yml --start-at-task="name of the task"

→ Start execution of a playbook from a specific task.

Play header ⇒ name of the play to be executed.

Task ⇒ Name of task followed by . name of managed host & status ⇒ ok

fatal

Changed

Skipping

Play recap ⇒ Number of tasks executed for each managed hosts.

-v ⇒ increases verbosity of the output.

-v ⇒ Output data

-vv ⇒ (Output + Input) data

-vvv ⇒ -n- + connections to managed hosts

-vvvv ⇒ -n- + scripts that are executed on managed hosts & user that is executing.

→ * Recommended practice for writing playbook *

→ Name the play and tasks.

→ Include comments.

→ Organize vertically

→ Consistent horizontal indentation

→ Keep playbook simple.

Troubleshooting ansible managed hosts

\$ ansible-playbook --check playbook.yml

→ Dry run of playbook without making any changes.

parameter 'check_mode: yes' ⇒ Always dry run
(no changes made)
in task

parameter 'check_mode: no' ⇒ Always executes
normally
in task

To check whether playbook is running in check mode;
variable ⇒ ansible_check_mode ⇒ true

always_run: yes ⇒ parameter ⇒ always runs even
in --check option

\$ ansible-playbook --diff play.yml

→ Reports changes made to the template file on
managed node.

🔗 uri module

checks that RESTful API is returning
the required content

tasks:

- uri:

url: xyz

return_content: yes

register: apiresponse

- fail:

msg: 'version was not provided'

when: "'version' not in apiresponse.content"

✂ script module
executes a script on managed hosts.
fails if returncode for that script is zero.

✂ stat module
gather info. of file & register it & use the output

- tasks :

- stat :

path : xyz

register : lock

- fail :

when : lock.stat.exists

if the file does not exists & variable will report false for *.stat.exists.

✂ Assert module

- Alternative to fail & with addition of 'that' conditional parameter.

Use success-msg & fail-msg option ???

Using ping module to test whether you can connect to managed host.