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ansible playbooks commands

|  |  |
| --- | --- |
| Module Name | Command |
| List all modules: | ansible-doc -l |
| No. of modules: | ansible-doc -l | wc -l |
| Search for specific modules: | ansible-doc -l | grep shell |
| To know about any specific modules: | ansible-doc shell |

[devopsadmin@ip-172-31-81-101 ansible]$ vi display.yaml

[devopsadmin@ip-172-31-81-101 ansible]$ cat display.yaml

---

- hosts: samplenode1

tasks:

- debug:

msg:

- "The os distribution is: {{ansible\_distribution}}"

- "The os name is: {{ansible\_system}}"

- "The os family is: {{ansible\_os\_family}}"

- "The mount points are :{{ansible\_mounts}}"

RUN THE ANSIBLE PLAYBOOK

Playbook is reuseable.

[devopsadmin@ip-172-31-81-101 ansible] $ ansible-playbook display.yaml

ok: [samplenode1]

TASK [debug] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [samplenode1] => {

"msg": [

"The os distribution is: Amazon",

"The os name is: Linux",

"The os family is: RedHat",

"The mount points are :[{u'block\_used': 424647, u'uuid': u'c4be3059-222a-495a-8707-e2139aa08b62', u'size\_total': 8577331200, u'block\_total': 2094075, u'mount': u'/', u'block\_available': 1669428, u'size\_available': 6837977088, u'fstype': u'xfs', u'inode\_total': 4193216, u'inode\_available': 4145028, u'device': u'/dev/xvda1', u'inode\_used': 48188, u'block\_size': 4096, u'options': u'rw,noatime,attr2,inode64,logbufs=8,logbsize=32k,noquota'}]"

]

}

Please Note that the default module name is setup module.

[devopsadmin@ip-172-31-81-101 ansible]$ ansible samplenode1 -m setup -a "filter=ansible\_mounts"

How to just verify playbook syntax

[devopsadmin@ip-172-31-81-101 ansible] $ ansible-playbook display.yaml –syntax-check

USER DEFINED VARIABLE

[devopsadmin@ip-172-31-81-101 ansible]$ cat test\_var-datatype.yaml

---

- hosts: samplenode1

vars:

x: 23

my\_num: 45.67

my\_name: kaushik

my\_b: YES

tasks:

- debug:

msg:

- "The value of x is: {{x}} and type: {{x|type\_debug}}"

- "THe value of my\_num: {{my\_num}} and type : {{my\_num|type\_debug}}"

- "The value of my\_name : {{my\_name}} and type: {{my\_name|type\_debug}}"

- "THe value of my\_b is: {{my\_b}} and type : {{my\_b|type\_debug}}"

[devopsadmin@ip-172-31-81-101 ansible]$ ansible-playbook test\_var-datatype.yaml

LOCATION STORAGE VARIABLE

[devopsadmin@ip-172-31-81-101 ansible]$ vi test\_var-datatype.yaml

[devopsadmin@ip-172-31-81-101 ansible]$ cat test\_var-datatype.yaml

---

- hosts: samplenode1

vars:

x: 23

my\_num: 45.67

my\_name: kaushik

my\_b: YES

tasks:

- debug:

msg:

- "The value of x is: {{x}} and type: {{x|type\_debug}}"

- "THe value of my\_num: {{my\_num}} and type : {{my\_num|type\_debug}}"

- "The value of my\_name : {{my\_name}} and type: {{my\_name|type\_debug}}"

- "THe value of my\_b is: {{my\_b}} and type : {{my\_b|type\_debug}}"

[devopsadmin@ip-172-31-81-101 ansible]$ clear

[devopsadmin@ip-172-31-81-101 ansible]$ mkdir variables

[devopsadmin@ip-172-31-81-101 ansible]$ cd variables

[devopsadmin@ip-172-31-81-101 variables]$ vi varfile\_datatype1.yaml

[devopsadmin@ip-172-31-81-101 variables]$ cat varfile\_datatype1.yaml

x: 23

my\_num: 45.67

my\_name: kaushik

my\_b: YES

[devopsadmin@ip-172-31-81-101 variables]$ cd

[devopsadmin@ip-172-31-81-101 ~]$ cd /etc/ansible

[devopsadmin@ip-172-31-81-101 ansible]$ ls

ansible.cfg file1.txt inventory1 test\_var-datatype.yaml

display.yaml hosts roles variables

[devopsadmin@ip-172-31-81-101 ansible]$ ll

total 40

-rw-r--r-- 1 devopsadmin devopsadmin 19985 Jul 1 2021 ansible.cfg

-rw-rw-r-- 1 devopsadmin devopsadmin 272 Apr 27 16:14 display.yaml

-rw-rw-r-- 1 devopsadmin devopsadmin 20 Apr 26 14:20 file1.txt

-rw-r--r-- 1 devopsadmin devopsadmin 1182 Apr 26 12:55 hosts

-rw-rw-r-- 1 devopsadmin devopsadmin 72 Apr 26 13:25 inventory1

drwxr-xr-x 2 devopsadmin devopsadmin 6 Jul 1 2021 roles

-rw-rw-r-- 1 devopsadmin devopsadmin 424 Apr 27 17:01 test\_var-datatype.yaml

drwxrwxr-x 2 devopsadmin devopsadmin 36 Apr 27 17:13 variables

[devopsadmin@ip-172-31-81-101 ansible]$ vi test\_var\_datatype1.yaml

[devopsadmin@ip-172-31-81-101 ansible]$ cat test\_var\_datatype1.yaml

---

- hosts: samplenode1

vars\_files:

- /etc/ansible/variables/varfile\_datatype1.yaml

tasks:

- debug:

msg:

- "The value of x is: {{x}} and type: {{x|type\_debug}}"

- "THe value of my\_num: {{my\_num}} and type : {{my\_num|type\_debug}}"

- "The value of my\_name : {{my\_name}} and type: {{my\_name|type\_debug}}"

- "THe value of my\_b is: {{my\_b}} and type : {{my\_b|type\_debug}}"

[devopsadmin@ip-172-31-81-101 ansible]$ ansible-playbook test\_var\_datatype1.yaml

PLAY [samplenode1] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

fatal: [samplenode1]: UNREACHABLE! => {"changed": false, "msg": "Failed to connect to the host via ssh: ssh: connect to host 172.31.93.37 port 22: No route to host", "unreachable": true}

PLAY RECAP \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

samplenode1 : ok=0 changed=0 unreachable=1 failed=0 skipped=0 rescued=0 ignored=0

[devopsadmin@ip-172-31-81-101 ansible]$

PLAYBOOK MODIFICATIONS

ansible-playbook test\_var-datatype1.yaml

Create playbook : with user-defined variables.

with the system variables.

using external files.

official documentation of ansible modules

<https://docs.ansible.com/ansible/2.9/modules/list_of_all_modules.html>