**WE LOST MOST OF THE TRACES IN TODAY’S TERMINAL**

"user-music": "/home/demouser",

"user-pictures": "/home/demouser",

"user-public": "/home/demouser",

"user-runtime": "/run/user/1001",

"user-shared": "/home/demouser/.local/share",

"user-state-cache": "/home/demouser/.cache",

"user-templates": "/home/demouser",

"user-videos": "/home/demouser"

},

"ohai\_uptime": "2 days 02 hours 03 minutes 44 seconds",

"ohai\_uptime\_seconds": 180224,

"ohai\_virtualization": {

"role": "guest",

"system": "xen",

"systems": {

"xen": "guest"

}

}

},

"changed": false

}

[demouser@controller ansible]$ For reading the fact module is setup

-bash: For: command not found

[demouser@controller ansible]$

[demouser@controller ansible]$

[demouser@controller ansible]$ clear

[demouser@controller ansible]$ ansible demogroup -m setup -a "filter=ansbile\_os\*"

172.31.16.187 | SUCCESS => {

"ansible\_facts": {},

"changed": false

}

[demouser@controller ansible]$ ansible demogroup -m setup -a "filter=ansible\_os\*"

172.31.16.187 | SUCCESS => {

"ansible\_facts": {

"ansible\_os\_family": "RedHat"

},

"changed": false

}

[demouser@controller ansible]$

[demouser@controller ansible]$ pwd

/etc/ansible

[demouser@controller ansible]$ ls -lrt

total 52

drwxr-xr-x. 2 root root 6 Dec 14 05:57 roles

-rw-r--r--. 1 root root 20277 Dec 14 05:57 ansible.cfg

-rw-r--r--. 1 root root 1016 Dec 28 01:58 hosts.org

-rw-r--r--. 1 root root 47 Dec 28 03:04 index.html

-rw-r--r--. 1 root root 324 Dec 28 03:06 playbook1.yaml

-rw-r--r--. 1 root root 443 Dec 28 20:43 tomcat\_palybook.yaml

-rw-r--r--. 1 root root 19 Dec 29 03:44 file1.txt

-rw-r--r--. 1 root root 217 Dec 29 03:54 copy\_playbook.yaml

-rw-r--r--. 1 root root 143 Dec 29 04:00 inventoryvar\_playbook.yaml

-rw-r--r--. 1 root root 106 Dec 29 04:15 hosts

drwxr-xr-x. 2 root root 28 Dec 29 04:17 group\_vars

[demouser@controller ansible]$

[demouser@controller ansible]$

[demouser@controller ansible]$ cd roles/

[demouser@controller roles]$ ls

[demouser@controller roles]$ ls -lart

total 0

drwxr-xr-x. 2 root root 6 Dec 14 05:57 .

drwxr-xr-x. 4 root root 231 Dec 29 04:15 ..

[demouser@controller roles]$

[demouser@controller roles]$

[demouser@controller roles]$ ansible-galaxy init myhttpd\_role

ERROR! Unexpected Exception, this is probably a bug: [Errno 13] Permission denied: './myhttpd\_role'

to see the full traceback, use -vvv

[demouser@controller roles]$ sudo ansible-galaxy init myhttpd\_role

- myhttpd\_role was created successfully

[demouser@controller roles]$

[demouser@controller roles]$ ls -lrt

total 0

drwxr-xr-x. 10 root root 135 Dec 29 05:24 myhttpd\_role

[demouser@controller roles]$

[demouser@controller roles]$ tree

.

└── myhttpd\_role

├── defaults

│   └── main.yml

├── files

├── handlers

│   └── main.yml

├── meta

│   └── main.yml

├── README.md

├── tasks

│   └── main.yml

├── templates

├── tests

│   ├── inventory

│   └── test.yml

└── vars

└── main.yml

[demouser@controller tasks]$ sudo cat main.yml

---

# tasks file for myhttpd\_role

- import\_tasks:

- install.yaml

- start.yaml

[demouser@controller tasks]$

[demouser@controller tasks]$

[demouser@controller tasks]$ pwd

/etc/ansible/roles/myhttpd\_role/tasks

[demouser@controller tasks]$ ls -lrt

total 4

-rw-r--r--. 1 root root 87 Dec 29 05:34 main.yml

[demouser@controller tasks]$ sudo vi install.yaml

[demouser@controller tasks]$ pwd

/etc/ansible/roles/myhttpd\_role/tasks

[demouser@controller tasks]$ sudo vi in^C

[demouser@controller tasks]$ sudo cat /etc/ansible/

ansible.cfg hosts playbook1.yaml

copy\_playbook.yaml hosts.org roles/

file1.txt index.html tomcat\_palybook.yaml

group\_vars/ inventoryvar\_playbook.yaml

[demouser@controller tasks]$ sudo cat /etc/ansible/

ansible.cfg hosts playbook1.yaml

copy\_playbook.yaml hosts.org roles/

file1.txt index.html tomcat\_palybook.yaml

group\_vars/ inventoryvar\_playbook.yaml

[demouser@controller tasks]$ sudo cat /etc/ansible/ansible.cfg

# config file for ansible -- https://ansible.com/

# ===============================================

# nearly all parameters can be overridden in ansible-playbook

# or with command line flags. ansible will read ANSIBLE\_CONFIG,

# ansible.cfg in the current working directory, .ansible.cfg in

# the home directory or /etc/ansible/ansible.cfg, whichever it

# finds first

[defaults]

# some basic default values...

#inventory = /etc/ansible/hosts

#library = /usr/share/my\_modules/

#module\_utils = /usr/share/my\_module\_utils/

#remote\_tmp = ~/.ansible/tmp

#local\_tmp = ~/.ansible/tmp

#plugin\_filters\_cfg = /etc/ansible/plugin\_filters.yml

#forks = 5

#poll\_interval = 15

#sudo\_user = root

#ask\_sudo\_pass = True

#ask\_pass = True

#transport = smart

#remote\_port = 22

#module\_lang = C

#module\_set\_locale = False

# plays will gather facts by default, which contain information about

# the remote system.

#

# smart - gather by default, but don't regather if already gathered

# implicit - gather by default, turn off with gather\_facts: False

# explicit - do not gather by default, must say gather\_facts: True

#gathering = implicit

# This only affects the gathering done by a play's gather\_facts directive,

# by default gathering retrieves all facts subsets

# all - gather all subsets

# network - gather min and network facts

# hardware - gather hardware facts (longest facts to retrieve)

# virtual - gather min and virtual facts

# facter - import facts from facter

# ohai - import facts from ohai

# You can combine them using comma (ex: network,virtual)

# You can negate them using ! (ex: !hardware,!facter,!ohai)

# A minimal set of facts is always gathered.

#gather\_subset = all

# some hardware related facts are collected

# with a maximum timeout of 10 seconds. This

# option lets you increase or decrease that

# timeout to something more suitable for the

# environment.

# gather\_timeout = 10

# Ansible facts are available inside the ansible\_facts.\* dictionary

# namespace. This setting maintains the behaviour which was the default prior

# to 2.5, duplicating these variables into the main namespace, each with a

# prefix of 'ansible\_'.

# This variable is set to True by default for backwards compatibility. It

# will be changed to a default of 'False' in a future release.

# ansible\_facts.

# inject\_facts\_as\_vars = True

# additional paths to search for roles in, colon separated

#roles\_path = /etc/ansible/roles

# uncomment this to disable SSH key host checking

#host\_key\_checking = False

# change the default callback, you can only have one 'stdout' type enabled at a time.

#stdout\_callback = skippy

## Ansible ships with some plugins that require whitelisting,

## this is done to avoid running all of a type by default.

## These setting lists those that you want enabled for your system.

## Custom plugins should not need this unless plugin author specifies it.

# enable callback plugins, they can output to stdout but cannot be 'stdout' type.

#callback\_whitelist = timer, mail

# Determine whether includes in tasks and handlers are "static" by

# default. As of 2.0, includes are dynamic by default. Setting these

# values to True will make includes behave more like they did in the

# 1.x versions.

#task\_includes\_static = False

#handler\_includes\_static = False

# Controls if a missing handler for a notification event is an error or a warning

#error\_on\_missing\_handler = True

# change this for alternative sudo implementations

#sudo\_exe = sudo

# What flags to pass to sudo

# WARNING: leaving out the defaults might create unexpected behaviours

#sudo\_flags = -H -S -n

# SSH timeout

#timeout = 10

# default user to use for playbooks if user is not specified

# (/usr/bin/ansible will use current user as default)

#remote\_user = root

# logging is off by default unless this path is defined

# if so defined, consider logrotate

#log\_path = /var/log/ansible.log

# default module name for /usr/bin/ansible

#module\_name = command

# use this shell for commands executed under sudo

# you may need to change this to bin/bash in rare instances

# if sudo is constrained

#executable = /bin/sh

# if inventory variables overlap, does the higher precedence one win

# or are hash values merged together? The default is 'replace' but

# this can also be set to 'merge'.

#hash\_behaviour = replace

# by default, variables from roles will be visible in the global variable

# scope. To prevent this, the following option can be enabled, and only

# tasks and handlers within the role will see the variables there

#private\_role\_vars = yes

# list any Jinja2 extensions to enable here:

#jinja2\_extensions = jinja2.ext.do,jinja2.ext.i18n

# if set, always use this private key file for authentication, same as

# if passing --private-key to ansible or ansible-playbook

#private\_key\_file = /path/to/file

# If set, configures the path to the Vault password file as an alternative to

# specifying --vault-password-file on the command line.

#vault\_password\_file = /path/to/vault\_password\_file

# format of string {{ ansible\_managed }} available within Jinja2

# templates indicates to users editing templates files will be replaced.

# replacing {file}, {host} and {uid} and strftime codes with proper values.

#ansible\_managed = Ansible managed: {file} modified on %Y-%m-%d %H:%M:%S by {uid} on {host}

# {file}, {host}, {uid}, and the timestamp can all interfere with idempotence

# in some situations so the default is a static string:

#ansible\_managed = Ansible managed

# by default, ansible-playbook will display "Skipping [host]" if it determines a task

# should not be run on a host. Set this to "False" if you don't want to see these "Skipping"

# messages. NOTE: the task header will still be shown regardless of whether or not the

# task is skipped.

#display\_skipped\_hosts = True

# by default, if a task in a playbook does not include a name: field then

# ansible-playbook will construct a header that includes the task's action but

# not the task's args. This is a security feature because ansible cannot know

# if the \*module\* considers an argument to be no\_log at the time that the

# header is printed. If your environment doesn't have a problem securing

# stdout from ansible-playbook (or you have manually specified no\_log in your

# playbook on all of the tasks where you have secret information) then you can

# safely set this to True to get more informative messages.

#display\_args\_to\_stdout = False

# by default (as of 1.3), Ansible will raise errors when attempting to dereference

# Jinja2 variables that are not set in templates or action lines. Uncomment this line

# to revert the behavior to pre-1.3.

#error\_on\_undefined\_vars = False

# by default (as of 1.6), Ansible may display warnings based on the configuration of the

# system running ansible itself. This may include warnings about 3rd party packages or

# other conditions that should be resolved if possible.

# to disable these warnings, set the following value to False:

#system\_warnings = True

# by default (as of 1.4), Ansible may display deprecation warnings for language

# features that should no longer be used and will be removed in future versions.

# to disable these warnings, set the following value to False:

#deprecation\_warnings = True

# (as of 1.8), Ansible can optionally warn when usage of the shell and

# command module appear to be simplified by using a default Ansible module

# instead. These warnings can be silenced by adjusting the following

# setting or adding warn=yes or warn=no to the end of the command line

# parameter string. This will for example suggest using the git module

# instead of shelling out to the git command.

# command\_warnings = False

# set plugin path directories here, separate with colons

#action\_plugins = /usr/share/ansible/plugins/action

#cache\_plugins = /usr/share/ansible/plugins/cache

#callback\_plugins = /usr/share/ansible/plugins/callback

#connection\_plugins = /usr/share/ansible/plugins/connection

#lookup\_plugins = /usr/share/ansible/plugins/lookup

#inventory\_plugins = /usr/share/ansible/plugins/inventory

#vars\_plugins = /usr/share/ansible/plugins/vars

#filter\_plugins = /usr/share/ansible/plugins/filter

#test\_plugins = /usr/share/ansible/plugins/test

#terminal\_plugins = /usr/share/ansible/plugins/terminal

#strategy\_plugins = /usr/share/ansible/plugins/strategy

# by default, ansible will use the 'linear' strategy but you may want to try

# another one

#strategy = free

# by default callbacks are not loaded for /bin/ansible, enable this if you

# want, for example, a notification or logging callback to also apply to

# /bin/ansible runs

#bin\_ansible\_callbacks = False

# don't like cows? that's unfortunate.

# set to 1 if you don't want cowsay support or export ANSIBLE\_NOCOWS=1

#nocows = 1

# set which cowsay stencil you'd like to use by default. When set to 'random',

# a random stencil will be selected for each task. The selection will be filtered

# against the `cow\_whitelist` option below.

#cow\_selection = default

#cow\_selection = random

# when using the 'random' option for cowsay, stencils will be restricted to this list.

# it should be formatted as a comma-separated list with no spaces between names.

# NOTE: line continuations here are for formatting purposes only, as the INI parser

# in python does not support them.

#cow\_whitelist=bud-frogs,bunny,cheese,daemon,default,dragon,elephant-in-snake,elephant,eyes,\

# hellokitty,kitty,luke-koala,meow,milk,moofasa,moose,ren,sheep,small,stegosaurus,\

# stimpy,supermilker,three-eyes,turkey,turtle,tux,udder,vader-koala,vader,www

# don't like colors either?

# set to 1 if you don't want colors, or export ANSIBLE\_NOCOLOR=1

#nocolor = 1

# if set to a persistent type (not 'memory', for example 'redis') fact values

# from previous runs in Ansible will be stored. This may be useful when

# wanting to use, for example, IP information from one group of servers

# without having to talk to them in the same playbook run to get their

# current IP information.

#fact\_caching = memory

#This option tells Ansible where to cache facts. The value is plugin dependent.

#For the jsonfile plugin, it should be a path to a local directory.

#For the redis plugin, the value is a host:port:database triplet: fact\_caching\_connection = localhost:6379:0

#fact\_caching\_connection=/tmp

# retry files

# When a playbook fails by default a .retry file will be created in ~/

# You can disable this feature by setting retry\_files\_enabled to False

# and you can change the location of the files by setting retry\_files\_save\_path

#retry\_files\_enabled = False

#retry\_files\_save\_path = ~/.ansible-retry

# squash actions

# Ansible can optimise actions that call modules with list parameters

# when looping. Instead of calling the module once per with\_ item, the

# module is called once with all items at once. Currently this only works

# under limited circumstances, and only with parameters named 'name'.

#squash\_actions = apk,apt,dnf,homebrew,pacman,pkgng,yum,zypper

# prevents logging of task data, off by default

#no\_log = False

# prevents logging of tasks, but only on the targets, data is still logged on the master/controller

#no\_target\_syslog = False

# controls whether Ansible will raise an error or warning if a task has no

# choice but to create world readable temporary files to execute a module on

# the remote machine. This option is False by default for security. Users may

# turn this on to have behaviour more like Ansible prior to 2.1.x. See

# https://docs.ansible.com/ansible/become.html#becoming-an-unprivileged-user

# for more secure ways to fix this than enabling this option.

#allow\_world\_readable\_tmpfiles = False

# controls the compression level of variables sent to

# worker processes. At the default of 0, no compression

# is used. This value must be an integer from 0 to 9.

#var\_compression\_level = 9

# controls what compression method is used for new-style ansible modules when

# they are sent to the remote system. The compression types depend on having

# support compiled into both the controller's python and the client's python.

# The names should match with the python Zipfile compression types:

# \* ZIP\_STORED (no compression. available everywhere)

# \* ZIP\_DEFLATED (uses zlib, the default)

# These values may be set per host via the ansible\_module\_compression inventory

# variable

#module\_compression = 'ZIP\_DEFLATED'

# This controls the cutoff point (in bytes) on --diff for files

# set to 0 for unlimited (RAM may suffer!).

#max\_diff\_size = 1048576

# This controls how ansible handles multiple --tags and --skip-tags arguments

# on the CLI. If this is True then multiple arguments are merged together. If

# it is False, then the last specified argument is used and the others are ignored.

# This option will be removed in 2.8.

#merge\_multiple\_cli\_flags = True

# Controls showing custom stats at the end, off by default

#show\_custom\_stats = True

# Controls which files to ignore when using a directory as inventory with

# possibly multiple sources (both static and dynamic)

#inventory\_ignore\_extensions = ~, .orig, .bak, .ini, .cfg, .retry, .pyc, .pyo

# This family of modules use an alternative execution path optimized for network appliances

# only update this setting if you know how this works, otherwise it can break module execution

#network\_group\_modules=eos, nxos, ios, iosxr, junos, vyos

# When enabled, this option allows lookups (via variables like {{lookup('foo')}} or when used as

# a loop with `with\_foo`) to return data that is not marked "unsafe". This means the data may contain

# jinja2 templating language which will be run through the templating engine.

# ENABLING THIS COULD BE A SECURITY RISK

#allow\_unsafe\_lookups = False

# set default errors for all plays

#any\_errors\_fatal = False

[inventory]

# enable inventory plugins, default: 'host\_list', 'script', 'yaml', 'ini', 'auto'

#enable\_plugins = host\_list, virtualbox, yaml, constructed

# ignore these extensions when parsing a directory as inventory source

#ignore\_extensions = .pyc, .pyo, .swp, .bak, ~, .rpm, .md, .txt, ~, .orig, .ini, .cfg, .retry

# ignore files matching these patterns when parsing a directory as inventory source

#ignore\_patterns=

# If 'true' unparsed inventory sources become fatal errors, they are warnings otherwise.

#unparsed\_is\_failed=False

[privilege\_escalation]

#become=True

#become\_method=sudo

#become\_user=root

#become\_ask\_pass=False

[paramiko\_connection]

# uncomment this line to cause the paramiko connection plugin to not record new host

# keys encountered. Increases performance on new host additions. Setting works independently of the

# host key checking setting above.

#record\_host\_keys=False

# by default, Ansible requests a pseudo-terminal for commands executed under sudo. Uncomment this

# line to disable this behaviour.

#pty=False

# paramiko will default to looking for SSH keys initially when trying to

# authenticate to remote devices. This is a problem for some network devices

# that close the connection after a key failure. Uncomment this line to

# disable the Paramiko look for keys function

#look\_for\_keys = False

# When using persistent connections with Paramiko, the connection runs in a

# background process. If the host doesn't already have a valid SSH key, by

# default Ansible will prompt to add the host key. This will cause connections

# running in background processes to fail. Uncomment this line to have

# Paramiko automatically add host keys.

#host\_key\_auto\_add = True

[ssh\_connection]

# ssh arguments to use

# Leaving off ControlPersist will result in poor performance, so use

# paramiko on older platforms rather than removing it, -C controls compression use

#ssh\_args = -C -o ControlMaster=auto -o ControlPersist=60s

# The base directory for the ControlPath sockets.

# This is the "%(directory)s" in the control\_path option

#

# Example:

# control\_path\_dir = /tmp/.ansible/cp

#control\_path\_dir = ~/.ansible/cp

# The path to use for the ControlPath sockets. This defaults to a hashed string of the hostname,

# port and username (empty string in the config). The hash mitigates a common problem users

# found with long hostames and the conventional %(directory)s/ansible-ssh-%%h-%%p-%%r format.

# In those cases, a "too long for Unix domain socket" ssh error would occur.

#

# Example:

# control\_path = %(directory)s/%%h-%%r

#control\_path =

# Enabling pipelining reduces the number of SSH operations required to

# execute a module on the remote server. This can result in a significant

# performance improvement when enabled, however when using "sudo:" you must

# first disable 'requiretty' in /etc/sudoers

#

# By default, this option is disabled to preserve compatibility with

# sudoers configurations that have requiretty (the default on many distros).

#

#pipelining = False

# Control the mechanism for transferring files (old)

# \* smart = try sftp and then try scp [default]

# \* True = use scp only

# \* False = use sftp only

#scp\_if\_ssh = smart

# Control the mechanism for transferring files (new)

# If set, this will override the scp\_if\_ssh option

# \* sftp = use sftp to transfer files

# \* scp = use scp to transfer files

# \* piped = use 'dd' over SSH to transfer files

# \* smart = try sftp, scp, and piped, in that order [default]

#transfer\_method = smart

# if False, sftp will not use batch mode to transfer files. This may cause some

# types of file transfer failures impossible to catch however, and should

# only be disabled if your sftp version has problems with batch mode

#sftp\_batch\_mode = False

# The -tt argument is passed to ssh when pipelining is not enabled because sudo

# requires a tty by default.

#use\_tty = True

# Number of times to retry an SSH connection to a host, in case of UNREACHABLE.

# For each retry attempt, there is an exponential backoff,

# so after the first attempt there is 1s wait, then 2s, 4s etc. up to 30s (max).

#retries = 3

[persistent\_connection]

# Configures the persistent connection timeout value in seconds. This value is

# how long the persistent connection will remain idle before it is destroyed.

# If the connection doesn't receive a request before the timeout value

# expires, the connection is shutdown. The default value is 30 seconds.

#connect\_timeout = 30

# Configures the persistent connection retry timeout. This value configures the

# the retry timeout that ansible-connection will wait to connect

# to the local domain socket. This value must be larger than the

# ssh timeout (timeout) and less than persistent connection idle timeout (connect\_timeout).

# The default value is 15 seconds.

#connect\_retry\_timeout = 15

# The command timeout value defines the amount of time to wait for a command

# or RPC call before timing out. The value for the command timeout must

# be less than the value of the persistent connection idle timeout (connect\_timeout)

# The default value is 10 second.

#command\_timeout = 10

[accelerate]

#accelerate\_port = 5099

#accelerate\_timeout = 30

#accelerate\_connect\_timeout = 5.0

# The daemon timeout is measured in minutes. This time is measured

# from the last activity to the accelerate daemon.

#accelerate\_daemon\_timeout = 30

# If set to yes, accelerate\_multi\_key will allow multiple

# private keys to be uploaded to it, though each user must

# have access to the system via SSH to add a new key. The default

# is "no".

#accelerate\_multi\_key = yes

[selinux]

# file systems that require special treatment when dealing with security context

# the default behaviour that copies the existing context or uses the user default

# needs to be changed to use the file system dependent context.

#special\_context\_filesystems=nfs,vboxsf,fuse,ramfs,9p

# Set this to yes to allow libvirt\_lxc connections to work without SELinux.

#libvirt\_lxc\_noseclabel = yes

[colors]

#highlight = white

#verbose = blue

#warn = bright purple

#error = red

#debug = dark gray

#deprecate = purple

#skip = cyan

#unreachable = red

#ok = green

#changed = yellow

#diff\_add = green

#diff\_remove = red

#diff\_lines = cyan

[diff]

# Always print diff when running ( same as always running with -D/--diff )

# always = no

# Set how many context lines to show in diff

# context = 3

[demouser@controller tasks]$ sudo cat /etc/ansible/

ansible.cfg hosts playbook1.yaml

copy\_playbook.yaml hosts.org roles/

file1.txt index.html tomcat\_palybook.yaml

group\_vars/ inventoryvar\_playbook.yaml

[demouser@controller tasks]$ sudo cat /etc/ansible/playbook1.yaml

---

- hosts: demogroup

tasks:

- name: Installing httpd

yum:

name: httpd

state: present

- name: starting httpd

service:

name: httpd

state: started

- name: example copying file with owner and permissions

copy:

src: /etc/ansible/index.html

dest: /var/www/html/index.html

[demouser@controller tasks]$

[demouser@controller tasks]$ ls -lrt

total 4

-rw-r--r--. 1 root root 87 Dec 29 05:34 main.yml

-rw-r--r--. 1 root root 0 Dec 29 05:35 install.yaml

[demouser@controller tasks]$ sudo vi install.yaml

[demouser@controller tasks]$ more install.yaml

- name: Installing httpd

yum:

name: httpd

state: present

[demouser@controller tasks]$

[demouser@controller tasks]$

[demouser@controller tasks]$ sudo vi start.yaml

[demouser@controller tasks]$

[demouser@controller tasks]$ more start.yaml

- name: Starting httpd

service:

name: httpd

state: start

[demouser@controller tasks]$

[demouser@controller tasks]$

[demouser@controller tasks]$ ls

install.yaml main.yml start.yaml

[demouser@controller tasks]$ more main.yml

---

# tasks file for myhttpd\_role

- import\_tasks:

- install.yaml

- start.yaml

[demouser@controller tasks]$

[demouser@controller tasks]$ pwd

/etc/ansible/roles/myhttpd\_role/tasks

[demouser@controller tasks]$

[demouser@controller tasks]$

[demouser@controller tasks]$ ls -lrt

total 12

-rw-r--r--. 1 root root 87 Dec 29 05:34 main.yml

-rw-r--r--. 1 root root 67 Dec 29 05:38 install.yaml

-rw-r--r--. 1 root root 67 Dec 29 05:40 start.yaml

[demouser@controller tasks]$

[demouser@controller tasks]$

[demouser@controller tasks]$

[demouser@controller tasks]$

[demouser@controller tasks]$

[demouser@controller tasks]$ more main.yml

---

# tasks file for myhttpd\_role

- import\_tasks:

- install.yaml

- start.yaml

[demouser@controller tasks]$

[demouser@controller tasks]$ more install.yaml

- name: Installing httpd

yum:

name: httpd

state: present

[demouser@controller tasks]$

[demouser@controller tasks]$ more start.yaml

- name: Starting httpd

service:

name: httpd

state: start

[demouser@controller tasks]$ pwd

/etc/ansible/roles/myhttpd\_role/tasks

[demouser@controller tasks]$ cd ../../..

[demouser@controller ansible]$ ls

ansible.cfg group\_vars index.html roles

copy\_playbook.yaml hosts inventoryvar\_playbook.yaml tomcat\_palybook.yaml

file1.txt hosts.org playbook1.yaml

[demouser@controller ansible]$ pwd

/etc/ansible

[demouser@controller ansible]$ ls -lrt

total 52

-rw-r--r--. 1 root root 20277 Dec 14 05:57 ansible.cfg

-rw-r--r--. 1 root root 1016 Dec 28 01:58 hosts.org

-rw-r--r--. 1 root root 47 Dec 28 03:04 index.html

-rw-r--r--. 1 root root 324 Dec 28 03:06 playbook1.yaml

-rw-r--r--. 1 root root 443 Dec 28 20:43 tomcat\_palybook.yaml

-rw-r--r--. 1 root root 19 Dec 29 03:44 file1.txt

-rw-r--r--. 1 root root 217 Dec 29 03:54 copy\_playbook.yaml

-rw-r--r--. 1 root root 143 Dec 29 04:00 inventoryvar\_playbook.yaml

-rw-r--r--. 1 root root 106 Dec 29 04:15 hosts

drwxr-xr-x. 2 root root 28 Dec 29 04:17 group\_vars

drwxr-xr-x. 3 root root 26 Dec 29 05:24 roles

[demouser@controller ansible]$ more

Usage: more [options] file...

Options:

-d display help instead of ring bell

-f count logical, rather than screen lines

-l suppress pause after form feed

-p do not scroll, clean screen and display text

-c do not scroll, display text and clean line ends

-u suppress underlining

-s squeeze multiple blank lines into one

-NUM specify the number of lines per screenful

+NUM display file beginning from line number NUM

+/STRING display file beginning from search string match

-V output version information and exit

[demouser@controller ansible]$

[demouser@controller ansible]$ more inventoryvar\_playbook.yaml

---

- hosts: demogroup

tasks:

- name: example copying file for demonstrating variable concept

copy: src={{my\_source}} dest={{my\_dest}}

[demouser@controller ansible]$

[demouser@controller ansible]$ sudo vi roledemo.yaml

[demouser@controller ansible]$ sudo vi roledemo.yaml

[demouser@controller ansible]$ sudo vi roledemo.yaml

[demouser@controller ansible]$ tree

.

├── ansible.cfg

├── copy\_playbook.yaml

├── file1.txt

├── group\_vars

│   └── demogroup.yaml

├── hosts

├── hosts.org

├── index.html

├── inventoryvar\_playbook.yaml

├── playbook1.yaml

├── roledemo.yaml

├── roles

│   └── myhttpd\_role

│   ├── defaults

│   │   └── main.yml

│   ├── files

│   ├── handlers

│   │   └── main.yml

│   ├── meta

│   │   └── main.yml

│   ├── README.md

│   ├── tasks

│   │   ├── install.yaml

│   │   ├── main.yml

│   │   └── start.yaml

│   ├── templates

│   ├── tests

│   │   ├── inventory

│   │   └── test.yml

│   └── vars

│   └── main.yml

└── tomcat\_palybook.yaml

11 directories, 21 files

[demouser@controller ansible]$ sudo vi roledemo.yaml

[demouser@controller ansible]$ pwd

/etc/ansible

[demouser@controller ansible]$ ls

ansible.cfg group\_vars index.html roledemo.yaml

copy\_playbook.yaml hosts inventoryvar\_playbook.yaml roles

file1.txt hosts.org playbook1.yaml tomcat\_palybook.yaml

[demouser@controller ansible]$ cd roles

[demouser@controller roles]$ ls

myhttpd\_role

[demouser@controller roles]$ cd myhttpd\_role/

[demouser@controller myhttpd\_role]$ ls

defaults files handlers meta README.md tasks templates tests vars

[demouser@controller myhttpd\_role]$ cd tasks/

[demouser@controller tasks]$ ls

install.yaml main.yml start.yaml

[demouser@controller tasks]$ sudo vi main.yml

[demouser@controller tasks]$

[demouser@controller tasks]$ sudo cat main.yml

---

# tasks file for myhttpd\_role

- import\_tasks: install.yaml

- import\_tasks: start.yaml

[demouser@controller tasks]$

[demouser@controller tasks]$

[demouser@controller tasks]$ cd /etc/host

-bash: cd: /etc/host: No such file or directory

[demouser@controller tasks]$ cd /etc/ansible/

[demouser@controller ansible]$

[demouser@controller ansible]$ ls -lrt

total 56

-rw-r--r--. 1 root root 20277 Dec 14 05:57 ansible.cfg

-rw-r--r--. 1 root root 1016 Dec 28 01:58 hosts.org

-rw-r--r--. 1 root root 47 Dec 28 03:04 index.html

-rw-r--r--. 1 root root 324 Dec 28 03:06 playbook1.yaml

-rw-r--r--. 1 root root 443 Dec 28 20:43 tomcat\_palybook.yaml

-rw-r--r--. 1 root root 19 Dec 29 03:44 file1.txt

-rw-r--r--. 1 root root 217 Dec 29 03:54 copy\_playbook.yaml

-rw-r--r--. 1 root root 143 Dec 29 04:00 inventoryvar\_playbook.yaml

-rw-r--r--. 1 root root 106 Dec 29 04:15 hosts

drwxr-xr-x. 2 root root 28 Dec 29 04:17 group\_vars

drwxr-xr-x. 3 root root 26 Dec 29 05:24 roles

-rw-r--r--. 1 root root 46 Dec 29 05:48 roledemo.yaml

[demouser@controller ansible]$ sudo vi roledemo.yaml

[demouser@controller ansible]$ ansible-playbook -b ^C

[demouser@controller ansible]$ sudo cat roledemo.yaml

---

- hosts: all

roles:

- myhttpd\_role

[demouser@controller ansible]$

[demouser@controller ansible]$ ansible-playbook -b roledemo.yaml

PLAY [all] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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

ok: [172.31.16.187]

TASK [myhttpd\_role : Installing httpd] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [172.31.16.187]

TASK [myhttpd\_role : Starting httpd] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

fatal: [172.31.16.187]: FAILED! => {"changed": false, "msg": "value of state must be one of: reloaded, restarted, started, stopped, got: start"}

[WARNING]: Could not create retry file '/etc/ansible/roledemo.retry'. [Errno 13]

Permission denied: u'/etc/ansible/roledemo.retry'

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

172.31.16.187 : ok=2 changed=0 unreachable=0 failed=1

[demouser@controller ansible]$ pwd

/etc/ansible

[demouser@controller ansible]$ tree

.

├── ansible.cfg

├── copy\_playbook.yaml

├── file1.txt

├── group\_vars

│   └── demogroup.yaml

├── hosts

├── hosts.org

├── index.html

├── inventoryvar\_playbook.yaml

├── playbook1.yaml

├── roledemo.yaml

├── roles

│   └── myhttpd\_role

│   ├── defaults

│   │   └── main.yml

│   ├── files

│   ├── handlers

│   │   └── main.yml

│   ├── meta

│   │   └── main.yml

│   ├── README.md

│   ├── tasks

│   │   ├── install.yaml

│   │   ├── main.yml

│   │   └── start.yaml

│   ├── templates

│   ├── tests

│   │   ├── inventory

│   │   └── test.yml

│   └── vars

│   └── main.yml

└── tomcat\_palybook.yaml

11 directories, 21 files

[demouser@controller ansible]$ sudo vi roles/myhttpd\_role/tasks/start.yaml

[demouser@controller ansible]$ ansible-playbook -b roledemo.yaml

PLAY [all] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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

ok: [172.31.16.187]

TASK [myhttpd\_role : Installing httpd] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [172.31.16.187]

TASK [myhttpd\_role : Starting httpd] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [172.31.16.187]

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

172.31.16.187 : ok=3 changed=0 unreachable=0 failed=0

[demouser@controller ansible]$

[demouser@controller ansible]$

[demouser@controller ansible]$

[demouser@controller ansible]$ ansible-galaxy install geerlingguy.java^C

[demouser@controller ansible]$ pwd

/etc/ansible

[demouser@controller ansible]$ cd roles/

[demouser@controller roles]$ ansible-galaxy install geerlingguy.java

- downloading role 'java', owned by geerlingguy

- downloading role from https://github.com/geerlingguy/ansible-role-java/archive/1.9.5.tar.gz

- extracting geerlingguy.java to /home/demouser/.ansible/roles/geerlingguy.java

- geerlingguy.java (1.9.5) was installed successfully

[demouser@controller roles]$

[demouser@controller roles]$

[demouser@controller roles]$ tree

.

└── myhttpd\_role

├── defaults

│   └── main.yml

├── files

├── handlers

│   └── main.yml

├── meta

│   └── main.yml

├── README.md

├── tasks

│   ├── install.yaml

│   ├── main.yml

│   └── start.yaml

├── templates

├── tests

│   ├── inventory

│   └── test.yml

└── vars

└── main.yml

9 directories, 10 files

[demouser@controller roles]$ ls -lrt

total 0

drwxr-xr-x. 10 root root 135 Dec 29 05:24 myhttpd\_role

[demouser@controller roles]$ java --version

-bash: java: command not found

[demouser@controller roles]$ cd /root/.ansible

-bash: cd: /root/.ansible: Permission denied

[demouser@controller roles]$ sudo cd /root/.ansible

[demouser@controller roles]$ ls

myhttpd\_role

[demouser@controller roles]$ pwd

/etc/ansible/roles

[demouser@controller roles]$ sudo -i

[root@controller ~]# cd /root/.ansible/roles

-bash: cd: /root/.ansible/roles: No such file or directory

[root@controller ~]#

[root@controller ~]# cd /root/.ansible

[root@controller .ansible]# ls

tmp

[root@controller .ansible]# ls -lart

total 4

drwx------. 3 root root 17 Dec 27 03:10 .

dr-xr-x---. 11 root root 4096 Dec 29 05:24 ..

drwx------. 2 root root 6 Dec 29 05:24 tmp

[root@controller .ansible]# cd tmp/

[root@controller tmp]# ls

[root@controller tmp]# ls -lart

total 0

drwx------. 3 root root 17 Dec 27 03:10 ..

drwx------. 2 root root 6 Dec 29 05:24 .

[root@controller tmp]# su - demouser

Last login: Sat Dec 29 03:25:18 UTC 2018 on pts/1

[demouser@controller ~]$ pwd

/home/demouser

[demouser@controller ~]$ sudo ansible-galaxy install geerlingguy.java

- downloading role 'java', owned by geerlingguy

- downloading role from https://github.com/geerlingguy/ansible-role-java/archive/1.9.5.tar.gz

- extracting geerlingguy.java to /root/.ansible/roles/geerlingguy.java

- geerlingguy.java (1.9.5) was installed successfully

[demouser@controller ~]$ sudo cd /root/.ansible/roles

[demouser@controller ~]$ pwd

/home/demouser

[demouser@controller ~]$ exit

logout

[root@controller tmp]# cd /root/.ansible/roles

[root@controller roles]# pwd

/root/.ansible/roles

[root@controller roles]# ls -lrt

total 0

drwxr-xr-x. 8 root root 161 Dec 29 06:01 geerlingguy.java

[root@controller roles]# cd geerlingguy.java/^C

[root@controller roles]# tree

.

└── geerlingguy.java

├── defaults

│   └── main.yml

├── LICENSE

├── meta

│   └── main.yml

├── molecule

│   └── default

│   ├── molecule.yml

│   ├── playbook.yml

│   ├── tests

│   │   └── test\_default.py

│   └── yaml-lint.yml

├── README.md

├── tasks

│   ├── main.yml

│   ├── setup-Debian.yml

│   ├── setup-FreeBSD.yml

│   └── setup-RedHat.yml

├── templates

│   └── java\_home.sh.j2

└── vars

├── Debian-8.yml

├── Debian-9.yml

├── Fedora.yml

├── FreeBSD.yml

├── RedHat-6.yml

├── RedHat-7.yml

├── Ubuntu-12.yml

├── Ubuntu-14.yml

├── Ubuntu-16.yml

└── Ubuntu-18.yml

9 directories, 23 files

[root@controller roles]#

[root@controller roles]#

[root@controller roles]#