

(/rol/app/)

Home(/rol/app/)

Reports(/rol/app/reports)

Community(https://learn.redhat.com/)

Days remaining 76

Search

Red Hat Enterprise Linux Automation with Ansible

▼FEEDBACK

TRANSLATIONS -

CERTIFICATE OF ATTENDANCE









(/rol/app/courses/rh294-8.4/pages/pr01) (/rol/app/courses/rh294-(/rol/app/courses/rh294-8.4/pages/ch01s02) 8.4/pages/pr01) (/rol/app/courses/rh294-8.4/pages/ch01s05) (/rol/app/courses/rh294-8.4/pages/ch02s03) (/rol/app/courses/rh294-8.4/pages/ch02s06) (/rol/app/courses/rh294-8.4/pages/ch02s09) (/rol/app/courses/rh294-8.4/pages/ch02s12) (/rol/app/courses/rh294-8.4/pages/ch03s03) (/rol/app/courses/rh294-8.4/pages/ch03s06) (/rol/app/courses/rh294-8.4/pages/ch04) (/rol/app/courses/rh294-8.4/pages/ch04s04) (/rol/app/courses/rh294-8.4/pages/ch04s07) (/rol/app/courses/rh294-8.4/pages/ch05s02) (/rol/app/courses/rh294-8.4/pages/ch05s05) (/rol/app/courses/rh294-8.4/pages/ch06s02) (/rol/app/courses/rh294-8.4/pages/ch06s05) (/rol/app/courses/rh294-8.4/pages/ch07s02) (/rol/app/courses/rh294-8.4/pages/ch07s05) (/rol/app/courses/rh294-8.4/pages/ch07s08) (/rol/app/courses/rh294-8.4/pages/ch07s11) (/rol/app/courses/rh294-8.4/pages/ch08s02) (/rol/app/courses/rh294-8.4/pages/ch08s05) (/rol/app/courses/rh294-8.4/pages/ch09s02) (/rol/app/courses/rh294-8.4/pages/ch09s05) (/rol/app/courses/rh294-8.4/pages/ch09s08) (/rol/app/courses/rh294-8.4/pages/ch09s11) (/rol/app/courses/rh294-8.4/pages/ch10s02) A (/rol/app/courses/rh294-8.4/pages/apa)

(/rol/app/courses/rh294-8.4/pages/pr01s02) (/rol/app/courses/rh294-8.4/pages/ch01s03) (/rol/app/courses/rh294-8.4/pages/ch02) (/rol/app/courses/rh294-(/rol/app/courses/rh294-8.4/pages/ch02s04) i3.4/pages/ch02) (/rol/app/courses/rh294-8.4/pages/ch02s07) (/rol/app/courses/rh294-8.4/pages/ch02s10) (/rol/app/courses/rh294-8.4/pages/ch03) (/rol/app/courses/rh294-(/rol/app/courses/rh294-8.4/pages/ch03s04) 8.4/pages/ch03) (/rol/app/courses/rh294–8.4/pages/ch03s07) (/rol/app/courses/rh294-8.4/pages/ch04s02) (/rol/app/courses/rh294-8.4/pages/ch04s05) (/rol/app/courses/rh294-8.4/pages/ch04s08) (/rol/app/courses/rh294-8.4/pages/ch05s03) (/rol/app/courses/rh294-8.4/pages/ch05s06) (/rol/app/courses/rh294-8.4/pages/ch06s03) (/rol/app/courses/rh294-8.4/pages/ch06s06) (/rol/app/courses/rh294-8.4/pages/ch07s03) (/rol/app/courses/rh294-8.4/pages/ch07s06) (/rol/app/courses/rh294-8.4/pages/ch07s09) (/rol/app/courses/rh294-8.4/pages/ch07s12) (/rol/app/courses/rh294-8.4/pages/ch08s03) (/rol/app/courses/rh294-8.4/pages/ch08s06) (/rol/app/courses/rh294-8.4/pages/ch09s03) (/rol/app/courses/rh294-8.4/pages/ch09s06) (/rol/app/courses/rh294-8.4/pages/ch09s09) (/rol/app/courses/rh294-8.4/pages/ch09s12) (/rol/app/courses/rh294-8.4/pages/ch10s03) (/rol/app/courses/rh294-8.4/pages/apa)

(/rol/app/courses/rh294-8.4/pages/apb)

(/rol/app/courses/rh294-8.4/pages/ch01) (/rol/app/courses/rh294-(/rol/app/courses/rh294-8.4/pages/ch01s04) 3.4/pages/ch01) (/rol/app/courses/rh294-8.4/pages/ch02s02) (/rol/app/courses/rh294-8.4/pages/ch02s05) (/rol/app/courses/rh294-8.4/pages/ch02s08) (/rol/app/courses/rh294-8.4/pages/ch02s11) (/rol/app/courses/rh294-8.4/pages/ch03s02) (/rol/app/courses/rh294-8.4/pages/ch03s05) (/rol/app/courses/rh294-8.4/pages/ch03s08) (/rol/app/courses/rh294-8.4/pages/ch04s03[{]/rol/ap (/rol/app/courses/rh294-8.4/pages/ch04s06) (/rol/app/courses/rh294-8.4/pages/ch05) (/rol/app/courses/rh294-(/rol/app/courses/rh294-8.4/pages/ch05s04) 8gl/pages/ch05) (/rol/app/courses/rh294-8.4/pages/ch06) (/rol/app/courses/rh294-(/rol/app/courses/rh294-8.4/pages/ch06s04) 8.4/pages/ch06) (/rol/app/courses/rh294-8.4/pages/ch07) (/rol/app/courses/rh294-(/rol/app/courses/rh294-8.4/pages/ch07s04) 8.4/pages/ch07) (/rol/app/courses/rh294-8.4/pages/ch07s07) (/rol/app/courses/rh294-8.4/pages/ch07s10) (/rol/app/courses/rh294-8.4/pages/ch08) (/rol/app/courses/rh294-(/rol/app/courses/rh294-8.4/pages/ch08s04) 8.4/pages/ch08) (/rol/app/courses/rh294-8.4/pages/ch09) (/rol/app/courses/rh294-(/rol/app/courses/rh294-8.4/pages/ch09s04) 8.4/pages/ch09) (/rol/app/courses/rh294-8.4/pages/ch09s07) (/rol/app/courses/rh294-8.4/pages/ch09s10) (/rol/app/courses/rh294-8.4/pages/ch10) (/rol/app/courses/rh294-(/rol/app/courses/rh294-8.4/pages/ch10s04) 8.4/**p?/965/abb/**ourses/rh294-8.4/pages/apb)

← PREVIOUS (/ROL/APP/COURSES/RH294-8.4/PAGES/CH05S03)

→ NEXT (/ROL/APP/COURSES/RH294-8.4/PAGES/CH05S05)

Guided Exercise: Deploying Custom Files with Jinja2 Templates



In this exercise, you will create a simple template file that your playbook will use to install a customized Message of the Day file on each managed host.

Outcomes

You should be able to:

- Build a template file.
- Use the template file in a playbook.

Log in to workstation as student using student as the password.

On workstation, run the lab file-template start command. This script ensures that Ansible is installed on workstation, creates the /home/student/file-template directory, and downloads the ansible.cfg file into that directory.

[student@workstation ~]\$ lab file-template start

NOTE

All the files used during this exercise are available for reference on workstation in the /home/student/file-template/files directory.

Procedure 5.2. Instructions

- 1. On workstation, navigate to the /home/student/file-template working directory. Review the inventory file in the current working directory. This file configures two groups: webservers and workstations. The servera.lab.example.com system is in the webservers group, and the workstation.lab.example.com system is in the workstations group.
 - 1.1. Navigate to the /home/student/file-template working directory.

[student@workstation ~]\$ cd ~/file-template
[student@workstation file-template]\$

1.2. Display the content of the inventory file.

```
[webservers]
servera.lab.example.com

[workstations]
workstation.lab.example.com
```

- 2. Create a template for the Message of the Day and include it in the motd. j2 file in the current working directory. Include the following variables and facts in the template:
- ansible_facts['fqdn'], to insert the FQDN of the managed host.
- ansible_facts['distribution'] and ansible_facts['distribution_version'], to provide distribution information.
- system_owner, for the system owner's email. This variable needs to be defined with an appropriate value in the vars section of the playbook template.

```
This is the system {{ ansible_facts['fqdn'] }}.
This is a {{ ansible_facts['distribution'] }} version {{ ansible_facts['distribution_version'] }} system.
Only use this system with permission.
Please report issues to: {{ system_owner }}.
```

3. Create a playbook file named motd.yml in the current working directory. Define the system_owner variable in the vars section, and include a task for the template module that maps the motd.j2 Jinja2 template to the remote file /etc/motd on the managed hosts. Set the owner and group to root, and the mode to 0644.

```
---
- name: configure SOE
hosts: all
remote_user: devops
become: true
vars:
- system_owner: clyde@example.com
tasks:
- name: configure /etc/motd
template:
    src: motd.j2
    dest: /etc/motd
    owner: root
    group: root
    mode: 0644
```

4. Before running the playbook, use the ansible-playbook --syntax-check command to verify the syntax. If it reports any errors, correct them before moving to the next step. You should see output similar to the following:

```
[student@workstation file-template]$ ansible-playbook --syntax-check motd.yml
playbook: motd.yml
```

5. Run the motd.yml playbook.

```
[student@workstation file-template]$ ansible-playbook motd.yml
ok: [servera.lab.example.com]
ok: [workstation.lab.example.com]
changed: [servera.lab.example.com]
changed: [workstation.lab.example.com]
servera.lab.example.com : ok=2
                          unreachable=0
                   changed=1
                                  failed=0
workstation.lab.example.com : ok=2
                  changed=1
                          unreachable=0
                                  failed=0
```

6. Log in to servera.lab.example.com as the devops user to verify that the MOTD is correctly displayed when logged in. Log off when you have finished.

[student@workstation file-template]\$ ssh devops@servera.lab.example.com
This is the system servera.lab.example.com.
This is a RedHat version 8.4 system.
Only use this system with permission.
Please report issues to: clyde@example.com.
...output omitted...
[devops@servera ~]# exit
Connection to servera.lab.example.com closed.

Finish

Run the lab file-template finish command to clean up after the exercise.

[student@workstation ~]\$ lab file-template finish

This concludes the guided exercise.

← PREVIOUS (/ROL/APP/COURSES/RH294-8.4/PAGES/CH05S03) → NEXT (/ROL/APP/COURSES/RH294-8.4/PAGES/CH05S05)

 $\label{lem:privacy-policy-po$

 $\label{lem:red-hat-raining-policies} Red \ Hat \ Training \ Policies (http://s.bl-1.com/h/cZrb2DXG?url=https://www.redhat.com/en/about/red-hat-training-policies)$

Terms of Use (https://www.redhat.com/en/about/terms-use)

All policies and guidelines (https://www.redhat.com/en/about/all-policies-guidelines)

Release Notes (https://learn.redhat.com/t5/Red-Hat-Learning-Subscription/Red-Hat-Learning-Subscription-Release-Notes/ba-p/22952)

Cookie Preferences

