

(/rol/app/)

Home(/rol/app/) Reports(/rol/app/reports)

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Days remaining 76

Search

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▼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) 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) 8g/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) 3.4/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/**AP (\$16\$/\$bb/)** dourses/rh294-8.4/pages/apb)

← PREVIOUS (/ROL/APP/COURSES/RH294-8.4/PAGES/CH03S03) → NEXT (/ROL/APP/COURSES/RH294-8.4/PAGES/CH03S05)

Guided Exercise: Managing Secrets



In this exercise, you will encrypt sensitive variables with Ansible Vault to protect them, and then run a playbook that uses those variables.

Outcomes

You should be able to:

• Execute a playbook using variables defined in an encrypted file.

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

On workstation, run the lab data-secret start command. This script ensures that Ansible is installed on workstation and creates a working directory for this exercise. This directory includes an inventory file that points to servera.lab.example.com as a managed host, which is part of the devservers group.

[student@workstation ~]\$ lab data-secret start

Procedure 3.2. Instructions

1. On workstation, as the student user, change to the /home/student/data-secret working directory.

[student@workstation ~]\$ cd ~/data-secret
[student@workstation data-secret]\$

- 2. Edit the contents of the provided encrypted file, secret.yml. The file can be decrypted using redhat as the password. Uncomment the username and pwhash variable entries.
 - 2.1. Edit the encrypted file /home/student/data-secret/secret.yml. Provide a password of redhat for the vault when prompted. The encrypted file opens in the default editor, vim.

[student@workstation data-secret]\$ ansible-vault edit secret.yml
Vault password: redhat

2.2. Uncomment the two variable entries, then save the file and exit the editor. They should appear as follows:

username: ansibleuser1
pwhash: \$6\$jf...uxhP1

3. Create a playbook named /home/student/data-secret/create_users.yml that uses the variables defined in the /home/student/data-secret/secret.yml encrypted file.

Configure the playbook to use the devservers host group. Run this playbook as the devops user on the remote managed host. Configure the playbook to create the ansibleuser1 user defined by the username variable. Set the user's password using the password hash stored in the pwhash variable.

```
---
- name: create user accounts for all our servers
hosts: devservers
become: True
remote_user: devops
vars_files:
- secret.yml
tasks:
- name: Creating user from secret.yml
user:
    name: "{{ username }}"
    password: "{{ pwhash }}"
```

4. Use the ansible-playbook --syntax-check command to verify the syntax of the create_users.yml playbook. Use the -- ask-vault-pass option to prompt for the vault password, which decrypts secret.yml. Resolve any syntax errors before you continue.

```
[student@workstation data-secret]$ ansible-playbook --syntax-check \
> --ask-vault-pass create_users.yml
Vault password (default): redhat
playbook: create_users.yml
```

NOTE

Instead of using --ask-vault-pass, you can use the newer --vault-id @prompt option to do the same thing.

5. Create a password file named vault-pass to use for the playbook execution instead of asking for a password. The file must contain the plain text redhat as the vault password. Change the permissions of the file to 0600.

```
[student@workstation data-secret]$ echo 'redhat' > vault-pass
[student@workstation data-secret]$ chmod 0600 vault-pass
```

6. Execute the Ansible Playbook using the vault-pass file, to create the ansibleuser1 user on a remote system using the passwords stored as variables in the secret.yml Ansible Vault encrypted file.

7. Verify that the playbook ran correctly. The user ansibleuser1 should exist and have the correct password on servera.lab.example.com. Test this by using ssh to log in as that user on servera.lab.example.com. The password for ansibleuser1 is redhat. To make sure that SSH only tries to authenticate by password and not by an SSH key, use the -o PreferredAuthentications=password option when you log in.

Log off from servera when you have successfully logged in.

```
[student@workstation data-secret]$ ssh -o PreferredAuthentications=password \
> ansibleuser1@servera.lab.example.com
ansibleuser1@servera.lab.example.com's password: redhat
Activate the web console with: systemctl enable --now cockpit.socket

[ansibleuser1@servera ~]$ exit
logout
Connection to servera.lab.example.com closed.
```

Finish

On workstation, run the lab data-secret finish script to clean up this exercise.

```
[student@workstation ~]$ lab data-secret finish
```

This concludes the guided exercise.

← PREVIOUS (/ROL/APP/COURSES/RH294-8.4/PAGES/CH03S03) → NEXT (/ROL/APP/COURSES/RH294-8.4/PAGES/CH03S05)

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