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→ NEXT (/ROL/APP/COURSES/RH294-8.4/PAGES/CH09S04)

E.4/pages/ch10) (/rol/app/courses/rh294-8.4/pages/apb)

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Managing Users and Authentication



Objectives

After completing this section, you should be able to manage Linux users and groups, configure SSH, and modify Sudo configuration on managed hosts.

The User Module

The Ansible user module lets you manage user accounts on a remote host. You can manage a number of parameters including remove user, set home directory, set the UID for system accounts, manage passwords and associated groupings. To create a user that can log into the machine, you need to provide a hashed password for the password parameter. See the reference section for a link to "How do I generate encrypted passwords for the user module?"

Example of the User Module

```
- name: Add new user to the development machine and assign the appropriate groups.
user:
name: devops_user  
shell: /bin/bash  
groups: sys_admins, developers  
append: yes
```

- 1 The name parameter is the only requirement in the user module and is usually the service account or user account.
- The shell parameter optionally sets the user's shell. On other operating systems, the default shell is decided by the tool being used.
- The groups parameter along with the append parameter tells the machine that we want to append the groups sys_asmins and developers with this user. If you do not use the append parameter then the groups will overwrite in place.

When creating a user you can specify it to generate_ssh_key. This will not overwrite an existing SSH key.

Example of User Module Generating an ssh key

```
- name: Create a SSH key for user1
user:
  name: user1
  generate_ssh_key: yes
  ssh_key_bits: 2048
  ssh_key_file: .ssh/id_my_rsa
```

NOTE

The user module also offers some return values. Ansible modules can take a return value and register them into a variable. Find out more with ansible–doc and on the main doc site.

Table 9.1. Some commonly used parameters

Parameter	Comments
comment	Optionally sets the description of a user account.
group	Optionally sets the user's primary group.
groups	List of multiple groups. When set to a null value, all groups except the primary group is removed.
home	Optionally sets the user's home directory.
create_home	Takes a boolean value of yes or no. A home directory will be created for the user if the value is set to yes.
system	When creating an account state=present, setting this to yes makes the user a system account. This setting cannot be changed on existing users.
uid	Sets the UID od user.

The Group Module

The group module allows you to manage (add, delete, modify) groups on the managed hosts. You need to have groupadd, groupdel or groupmod. For windows targets, use the win_group module.

Example of the group module

```
- name: Verify that auditors group exists group:
name: auditors
state: present
```

Table 9.2. Parameters for the group module

Parameter	Comments
gid	Optional GID to set for the group.
local	Forces the use of "local" command alternatives on platforms that implement it.
name	Name of the group to manage.
state	Whether the group should be present or not on the remote host.
system	If set to yes, indicates that the group created is a system group.

The Known Hosts Module

If you have a large number of host keys to manage you will want to use the known_hosts module. The known_hosts module lets you add or remove host keys from the known_hosts file on managed host.

Example of known_host Tasks

```
- name: copy host keys to remote servers
known_hosts:
  path: /etc/ssh/ssh_known_hosts
  name: host1
  key: "{{ lookup('file', 'pubkeys/host1') }}"
```

1 A lookup plugin allows Ansible to access data from outside sources.

The Authorized Key Module

The authorized_key module allows you to add or remove SSH authorized keys per user accounts. When adding and subtracting users to a large bank of servers, you need to be able to manage ssh keys.

Example of authorized_key Tasks

```
- name: Set authorized key
authorized_key:
    user: user1
    state: present
    key: "{{ lookup('file', '/home/user1/.ssh/id_rsa.pub') }}
```

A key can also be taken from a url: https://github.com/user1.keys (https://github.com/user1.keys).

REFERENCES

Users Module Ansible Documentation (http://docs.ansible.com/ansible/2.9/modules/user_module.html#user-module)

How do I generate encrypted passwords for the user module

 $(https://docs.ansible.com/ansible/2.9/reference_appendices/faq.html \#how-do-i-generate-encrypted-passwords-for-the-user-module)$

Group Module Ansible Documentation (https://docs.ansible.com/ansible/2.9/modules/group_module.html#group-module)

SSH Known Hosts Module Ansible Documentation

(https://docs.ansible.com/ansible/2.9/modules/known_hosts_module.html#known-hosts-module)

Authorized_key module Ansible Documentation

(https://docs.ansible.com/ansible/2.9/modules/authorized_key_module.html#authorized-key-module)

The Lookup Plugin Ansible Documentation (https://docs.ansible.com/ansible/2.9/plugins/lookup.html?highlight=lookup)



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