

Ansible Galaxy – Your Gateway to Reusable Roles

Ansible Galaxy is the **official community hub** for finding, sharing, and managing Ansible roles and collections.

It allows you to:

-  **Download roles** developed by others
 -  **Share your own roles** with the community
 -  Use **collections** of roles, modules, and plugins
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Website: <https://galaxy.ansible.com>



Key Concepts



Role:

A set of reusable tasks, variables, templates, etc., bundled in a standard directory structure.



Collection:

A larger bundle containing roles, modules, plugins, and documentation (like an Ansible package).



Common `ansible-galaxy` Commands

♦ Install a Role

```
ansible-galaxy install geerlingguy.nginx
```

This installs the `nginx` role by `geerlingguy` from Ansible Galaxy.

◆ **Install Roles from a Requirements File**

```
# requirements.yml
- src: geerlingguy.nginx
  version: 2.7.0
```

Then run:

```
ansible-galaxy install -r requirements.yml
```

◆ **Create a New Role Skeleton**

```
ansible-galaxy init my_custom_role
```

Creates a role structure like this:

```
my_custom_role/
├── defaults/
├── files/
├── handlers/
├── meta/
├── tasks/
├── templates/
└── tests/
└── vars/
```

◆ **Publish a Role to Galaxy**

1. Create an account on [Galaxy](#)
 2. Push your role to a public GitHub repo
 3. Import the role on Galaxy via your GitHub link
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◆ **Install a Collection**

```
ansible-galaxy collection install community.general
```

Use modules from that collection:

```
- name: Use ping from collection  
  community.general.ping:
```



Example: Use a Galaxy Role in a Playbook

```
- name: Install NGINX using Galaxy role  
  hosts: web  
  roles:  
    - geerlingguy.nginx
```



Best Practices

- Pin versions in `requirements.yml`
 - Use collections for enterprise projects
 - Test Galaxy roles locally before using in production
 - Clean unused roles: `ansible-galaxy remove <role>`
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Summary

| Feature | Description |
|-------------------------------------|----------------------------|
| <code>ansible-galaxy install</code> | Download roles from Galaxy |
| <code>ansible-galaxy init</code> | Create role skeleton |
| <code>ansible-galaxy list</code> | List installed roles |

`requirements.yml` Define multiple roles with versions

Collections Bundled roles, plugins, modules
