



Ansible Roles Cheatsheet



Roles provide a way of automatically loading certain `var_files`, tasks, and handlers based on a known file structure.



Roles also make sharing of configuration templates easier.



Roles require a particular directory structure.



Role definitions must contain at least one of the noted directories:

in `/path/to/role/`:

- **tasks** - Contains the main list of tasks to be executed by the role.
- **handlers** - Contains handlers, which may be used by this role or even anywhere outside this role.
- **defaults** - Default variables for the role (see Variables for more information).
- **vars** - Other variables for the role (see Variables for more information).
- **files** - Contains files which can be deployed via this role.
- **templates** - Contains templates which can be deployed via this role.
- **meta** - Defines some meta data for this role. See below for more details.



Unused directories need not exist.



With the exception of templates and files, each directory must include a `main.yml` if that directory is being used.



`main.yml` serves as the entry point for the role.



Files in the tasks, templates, and files directories may be referenced without path within the role.



To invoke a role in a playbook, you may use **`importrole`**, **`include_role`**, or use the role keyword.

Example:

```
---
- hosts: webservers
  tasks:
    - name: Include common role with variables
      include_role:
        name: common
    vars:
      common_dist: centos
      common_size: medium
    - name: Include webserver role from non-standard path
      include_role:
        name: /opt/roles/webserver
```

Example using two roles in a playbook using various keywords as needed:

```
---
- hosts: webservers
  roles:
    - common
    - role: foo_app_instance
    vars:
      dir: '/opt/a'
      app_port: 5000
    - role: foo_app_instance
    vars:
      dir: '/opt/b'
      app_port: 5001
```



When a role is called in a playbook, Ansible looks for the role definition in `$(PWD)/roles/<role_name>`

- If `$(PWD)/roles` does not contain the sought role, then `/etc/ansible/roles` is checked.
- The "**roles_path**" configuration in `ansible.cfg` contains a colon delimited list of paths where roles are searched for by ansible.
- The full path to a role may also be specified with the role keyword to use a non-default path.

Example:

```
---
- hosts: webservers
  roles:
    - role: '/path/to/my/roles/common'
```

