RunOps - Role Documentation

This guide documents the roles included in the RunOps framework.

Includes: common, linux, windows roles.

Readme

RunOps Role Documentation

This folder documents how to use each role in the RunOps framework.

#Roles

- common.md ? Baseline cross-platform config (NTP, DNS, greetings).

- linux.md ? Linux-specific baseline (packages).

- windows.md ? Windows-specific baseline (Notepad++ via Chocolatey).

#Usage Pattern

- The roles are already wired into `playbooks/site.yml`.

- You just need to target the correct inventory (`dev`, `stage`, `prod`).

- Each role can be extended with additional tasks.

#Example Run

python scripts/cli.py run playbook -p playbooks/site.yml -i inventories/dev/hosts.yml

Common

Role: common

The `common` role is applied to **all hosts** and provides baseline configuration.

#Features

- **Greeting**: Displays combined `greeting` + `common_message`.
- **NTP**:
  - Linux: installs `chrony` and configures `/etc/chrony/chrony.conf` with `ntp_server`.
  - Windows: sets NTP peer list via `w32tm` (idempotent).
- **DNS**:
  - Linux: configures `/etc/resolv.conf` using `dns_servers`.
  - Windows: applies DNS servers on all adapters via `win_dns_client`.

#Variables

Defined in `inventories/*/group_vars/all.yml`:

- `ntp_server` (string): NTP server hostname or IP.
- `dns_servers` (list): DNS server IP addresses.
- `greeting` (string): environment greeting.
- `common_message` (string): default message from role.

#Usage

Automatically included in `playbooks/site.yml` for **all hosts**:

- name: Site - common baseline
  hosts: all
  roles:
    - role: common

Linux

Role: linux

The `linux` role is applied to hosts in the `linux` group.

#Features

- Installs baseline packages:

  - curl

  - vim

  - git

#Variables

No defaults required.

#Usage

Automatically included in `playbooks/site.yml` for the `linux` group:

- name: Site - linux baseline
  hosts: linux
  roles:
    - role: linux

Windows

Role: windows

The `windows` role is applied to hosts in the `windows` group.

#Features

- Ensures Notepad++ is installed via Chocolatey (`win_chocolatey` module).

#Requirements

- WinRM must be enabled and accessible from the Ansible controller.

- Chocolatey should be present (installer will run if missing).

#Usage

Automatically included in `playbooks/site.yml` for the `windows` group:

- name: Site - windows baseline
  hosts: windows
  roles:
    - role: windows