# Lesson 04 Demo 04 Implementing Global Variables in Ansible

**Objective:** To implement global variables in Ansible, define them centrally, and reference them in playbook tasks ensuring consistent variable usage across tasks and hosts

Tools required: Linux terminal

Prerequisites: None

Steps to be followed:

1. Set up the directory structure

- 2. Create a global variables file
- 3. Create a playbook
- 4. Run the playbook

#### Step 1: Set up the directory structure

1.1 Run the following command to create the main project directory: **mkdir ansible\_demo** 

```
poojahksimplile@ip-172-31-36-118:~$ mkdir ansible_demo
```

1.2 Navigate into the project directory using the following command:

```
cd ansible_demo
```

```
poojahksimplile@ip-172-31-36-118:~$ cd ansible_demo
poojahksimplile@ip-172-31-36-118:~/ansible_demo$
```

1.3 Run the following command to create a parent directory:

```
mkdir -p group_vars
```

```
poojahksimplile@ip-172-31-36-118:~/ansible_demo$ mkdir -p group_vars
poojahksimplile@ip-172-31-36-118:~/ansible_demo$
```

## Step 2: Create a global variables file

2.1 Create and open the **all.yml** file in the **group\_vars** directory by using the following command:

nano group\_vars/all.yml

```
poojahksimplile@ip-172-31-36-118:~/ansible_demo$ nano group_vars/all.yml
poojahksimplile@ip-172-31-36-118:~/ansible_demo$
```

2.2 Add the following script into the **all.yml** file to define global variables:

```
# group_vars/all.yml
---
greeting: "Hello, World!"
```

number: 42

```
GNU nano 6.2

# group_vars/all.yml
---
greeting: "Hello, World!"
number: 42
```

# **Step 3: Create a playbook**

3.1 Create and open the **demo\_playbook.yml** file using the following command: nano demo\_playbook.yml

```
poojahksimplile@ip-172-31-36-118:~/ansible_demo$ nano demo_playbook.yml
poojahksimplile@ip-172-31-36-118:~/ansible_demo$
```

3.2 Add the following content to the **demo\_playbook.yml** file that references the global variables:

```
# demo_playbook.yml
---
- name: Demo Playbook
hosts: localhost
gather_facts: no
tasks:
    - name: Print greeting message
debug:
    msg: "{{ greeting }}"
```

name: Print the number debug:

msg: "The number is {{ number }}"

```
GNU nano 6.2

demo_playbook.yml

---
- name: Demo Playbook
hosts: localhost
gather_facts: no
tasks:
- name: Print greeting message
debug:
    msg: "{{ greeting }}"

- name: Print the number
debug:
    msg: "The number is {{ number }}"
```

# Step 4: Run the playbook

4.1 Execute the playbook using the following command:

ansible-playbook demo\_playbook.yml

By following these steps, you have successfully implemented global variables in Ansible, defined them centrally and referenced them in playbook tasks, ensuring consistent variable usage across tasks and hosts.