

## Ansible Variables

Variables are used to store values in programs and as the name suggests the values can be changed throughout the program. These values are essential to deciding the code flow. Ansible variables help to determine how the tasks execute on different systems based on the values assigned to these variables.

Ansible variable names should be letters, numbers, underscores and they should always start with a letter.

In the playbook, we can give a variable in 'variable\_name: variable\_value' format. And we can use the variable\_name inside double braces anywhere in the playbook. In the following task, I am declaring a variable hello with value world and is referenced in one of the tasks. The task will output the value world.

```
- hosts: all

vars:

    hello: world

tasks:

- name: Ansible Variable Example

  debug:

    msg: "{{ hello }}"
```

### **Ansible List (Array) variables**

We can also have an array or list variables. The following task shows how to declare an array variable in Ansible and how to use the values. The hello contains 9 values, and each one can be accessed using the index numbers (starting from zero). The following task will output 'South America'

```
- hosts: all

vars:

    hello:
```

- World
- Asia
- South America
- North America
- Artic
- Antartic
- Oceania
- Europe
- Africa

tasks:

- name: Ansible List variable Example

debug:

```
msg: "{{ hello[2] }}"
```

You can also give the variable values in the following format.

vars:

```
hello: [Asia, Americas, Artic, Antartic ,Oceania,Europe,Africa]
```

If you need to access all the variables, you can use the with\_items structure to loop through all the values.

- hosts: all

vars:

```
hello: [Asia, Americas, Artic, Antartic ,Oceania,Europe,Africa]
```

tasks:

- name: Ansible array variables example

debug:

```
msg: "{{ item }}"
```

with\_items:

- "{{ hello }}"

## **Ansible Multiline Variables**

It is possible to give variable values in multiple lines using YAML block operators. There are two options for this, depending on whether you need the newline characters to be retained or not.

You can use the '|' operator if you want the new line characters to be included. If you do not want the new line character, and you just want to use it for easy understanding during editing then use '>' operator.

- hosts: all

vars:

include\_newlines\_example: |

The new line characters  
will appear

ignore\_newlines\_example2: >

The new line character will  
be removed. Useful when editing  
lines

tasks:

- name: Ansible variable multiple line Example

debug:

msg: "{{ include\_newlines\_example }}"

- name: Ansible variables multiline Example

debug:

msg: "{{ ignore\_newlines\_example2 }}"