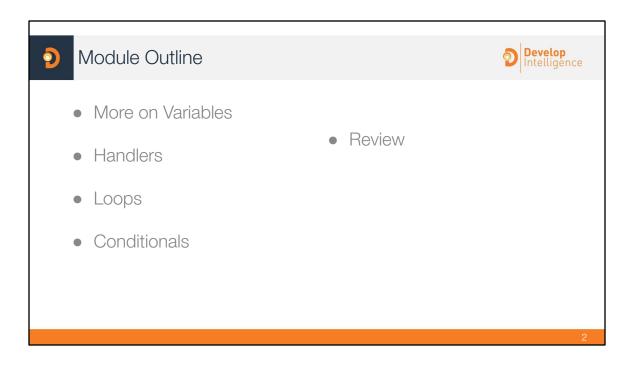
Playbooks Develop Intelligence





This example playbook has 2 plays, each with 2 tasks. The first play runs against any hosts in the *webservers* group while the second runs against hosts in the *databases* group.



Variable Precedence



- 1. extra vars (always wins precedence)
- 2. include params
- 3. role (and include_role) params
- 4. set_facts / registered vars
- 5. include_vars
- 6. task vars (only for the task)
- 7. block vars (only for tasks in block)
- 8. role vars (defined in role/vars/main.yml)
- 9. play vars_files
- 10. play vars_prompt
- 11. play vars

- 12. host facts / cached set_facts
- 13. playbook host_vars/*
- 14. inventory host_vars/*
- 15. inventory file or script host vars
- 16. playbook group_vars/*
- 17. inventory group_vars/*
- 18. playbook group_vars/all
- 19. inventory group_vars/all
- 20. inventory file or script group vars
- 21. role defaults
- 22. command line values (eg "-u user")

4

https://docs.ansible.com/ansible/latest/user_guide/playbooks_variables.html#variable-precedence-where-should-i-put-a-variable

Variable Precedence (simplified) 1. extra vars (--extra-vars in CLI) In general, the more specific the higher the precedence. 15. inventory file or script host vars 6. task vars (only for the task) 8. role vars (defined in role/vars/main.yml) 19. inventory group_vars/all 11. play vars 22. command line values (eg "-u user")

```
Playbook folder

lamp/
playbook.yml
hosts
group_vars/
host_vars/
roles/
library/
```

https://docs.ansible.com/ansible/latest/user_guide/playbooks_best_practices.html#directory-layout

Handler tasks



- Run at the end of the play, if notified
- Run exactly once, even if notified multiple times

tasks:

name: template configuration file template:

src: template.j2
dest: /etc/foo.conf
notify:

- restart memcached

- restart apache

handlers:

- name: restart memcached

service:
 name: memcached

state: restarted
- name: restart apache

service:

name: apache
state: restarted

1



Registering variables dynamically



- name: return motd to registered var

command: cat /etc/motd
register: mymotd

- name: print return code of previous command

debug:

var: mymotd.rc

- name: print contents of /etc/motd

debug:

var: mymotd.stdout

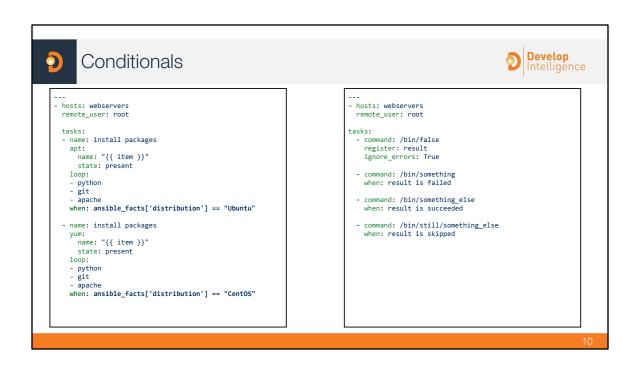
8





- A task can be performed multiple times with differing values of a special "item" variable
- Use the *loop* (new way) or with_items (old way) directives

```
- hosts: webservers
  remote_user: root
   tasks:
   - name: install packages
      apt:
       name: "{{ item }}"
      state: present
loop:
- python
- git
- apache
   - name: install packages
     name: Install packages
apt:
name: "{{ item }}"
state: present
with_items: # The old way
      - python
- git
- apache
```



https://docs.ansible.com/ansible/latest/user_guide/playbooks_conditionals.html

