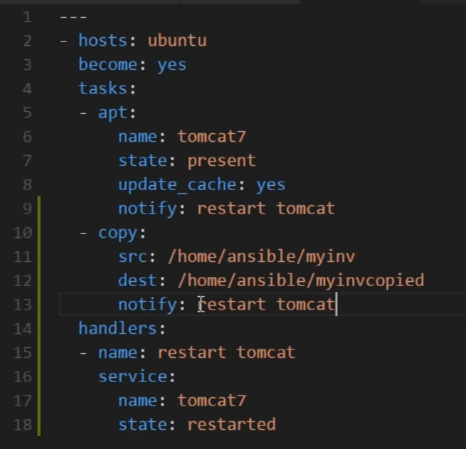
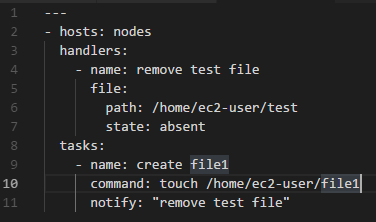
**Handlers:**

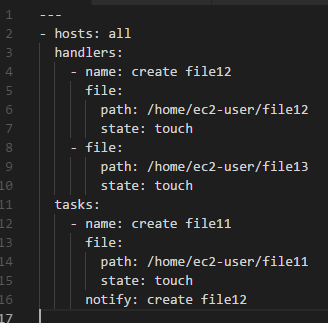
* Whenever there is an activity which we want to happen immediately after some action
* This kind of thing is called event
* For this, we need handler



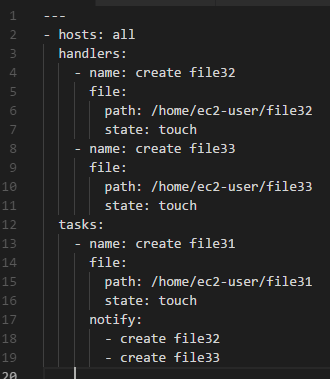


**Giving “ “ in notify is optional. for listen also**

* As above, we no need to write two tasks to restart the service
* We can use notify for handlers
* Handler concept is there in almost every CM tools



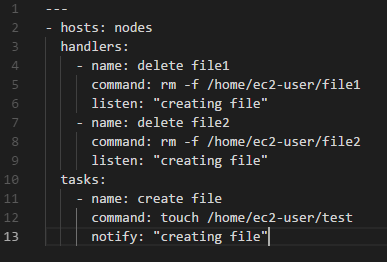
* As above, it creates only file12
* **We can also assign more than one handler for a single task as below**

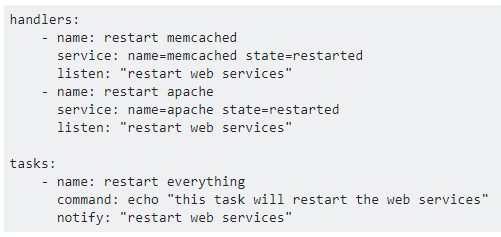


**Listen:**

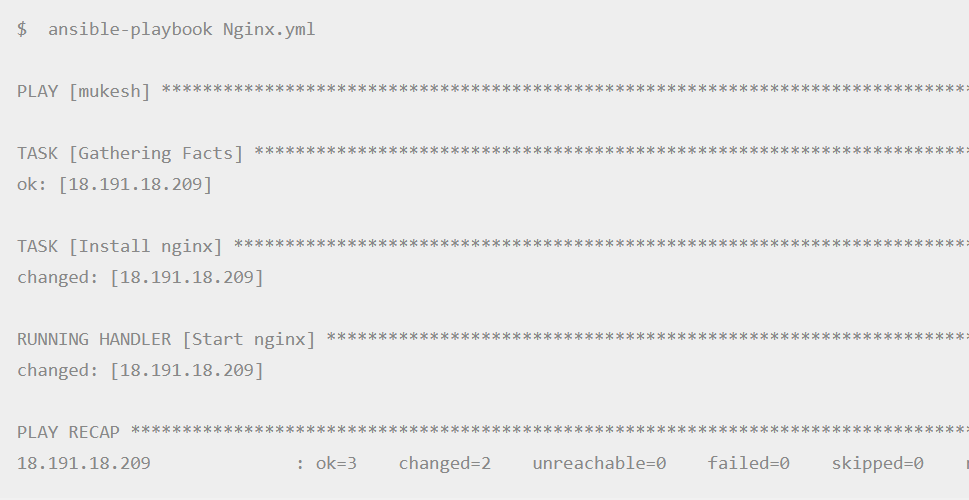
* As per above example, we use notify with the name of the handler
* Suppose if we want to have one event and multiple handlers for that
* Suppose we want to restart tomcat and apache both. We need to use listen







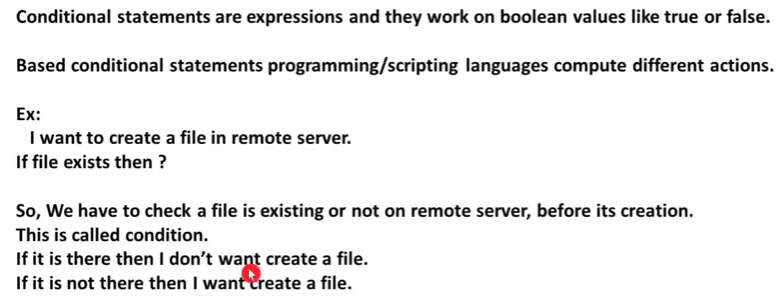
* As per above, we can see two listens referring to same notify. We don’t use this much. We can use it from ansible 2.2
* Here, one source multiple handlers

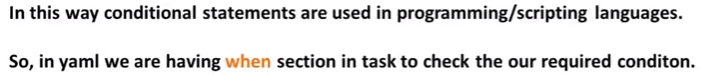


Above is how the handler execution done in ansible.

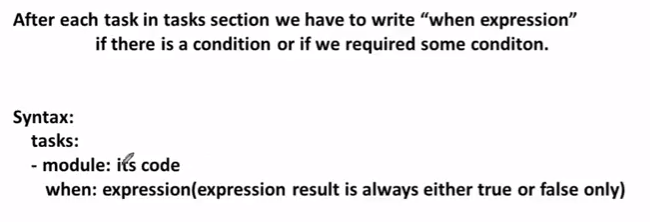
**Conditions:**

* Conditional statements are expressions

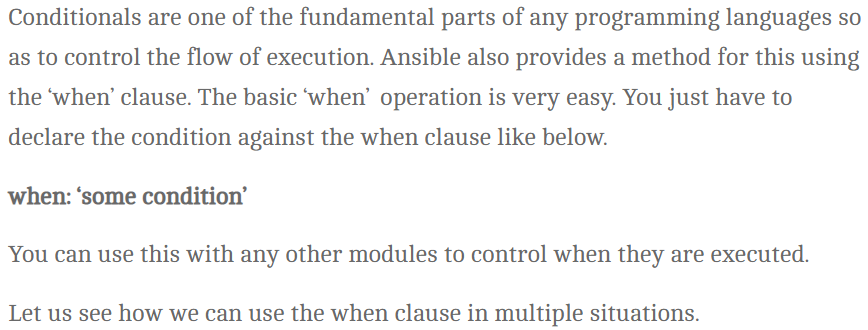




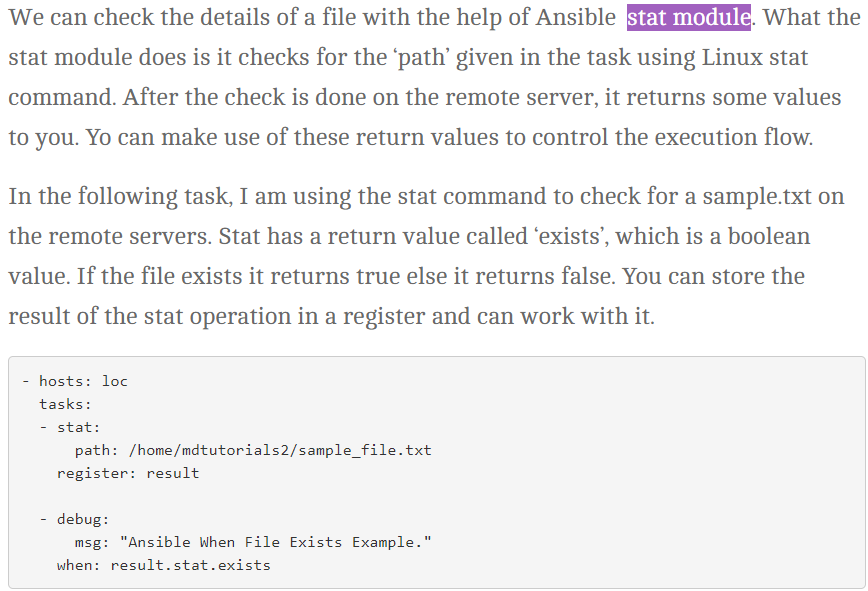
* If we want to run the playbook in a smooth way and if its required we can use when condition. Its optional



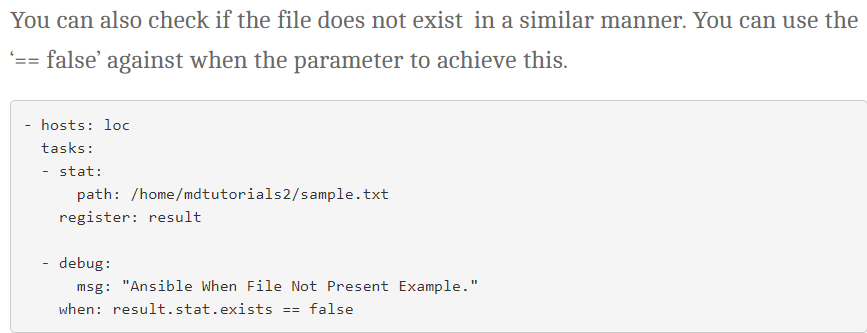
* As above, it will first check the when condition, it that is true then it will execute the task. If not, it will not execute it



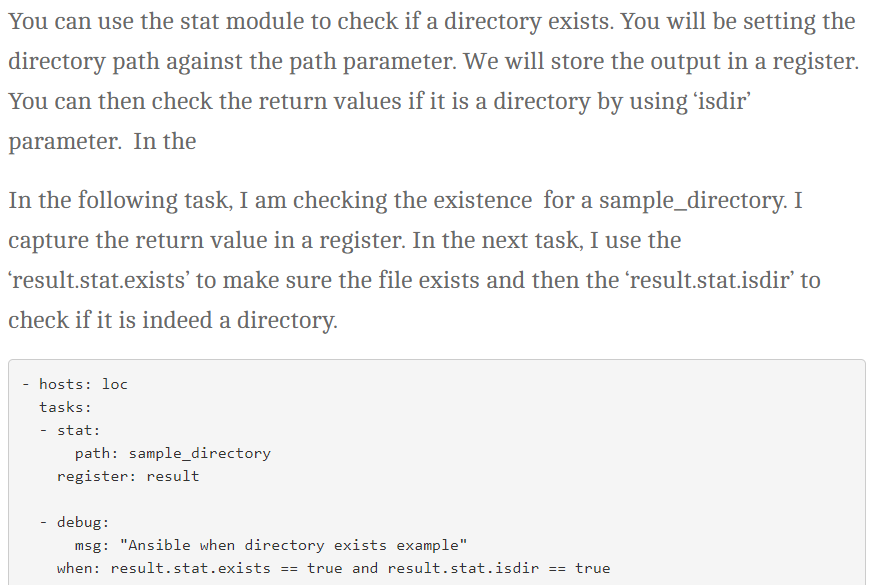
**When file exist:**



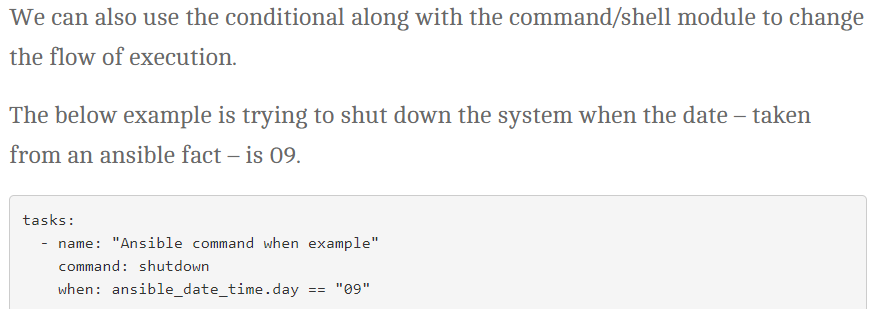
**When file does not exist:**



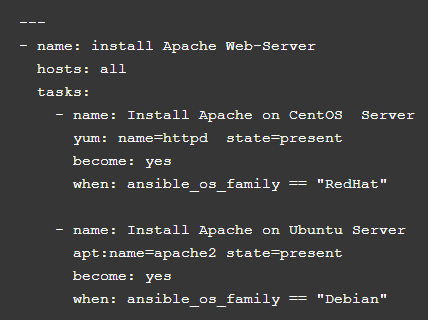
**When directory does not exist:**



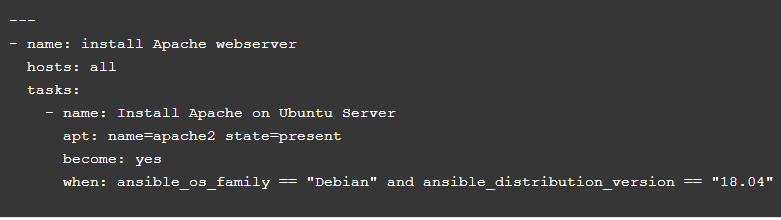
**Ansible when with command module:**



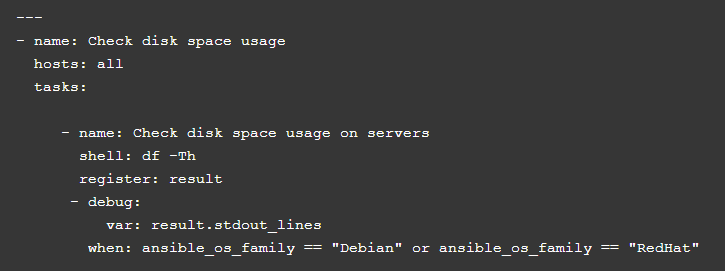
**Conditions based on facts:**



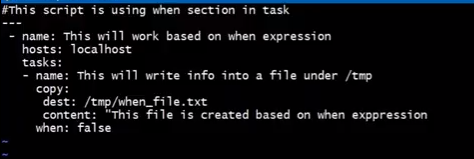
**AND operator:**



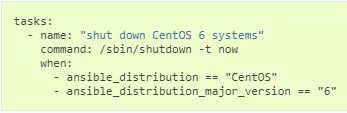
**OR operator:**

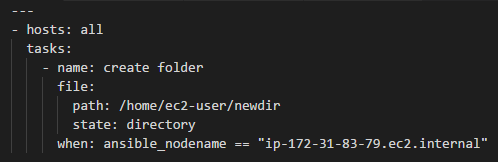


**More examples:**



* In yaml file itself, we have given when as false. So, it will skip it
* If we make it true, it will make the changes

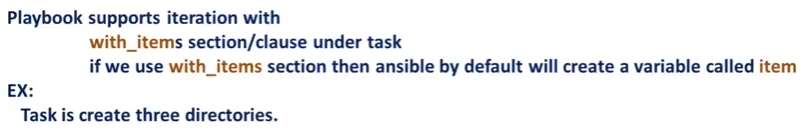




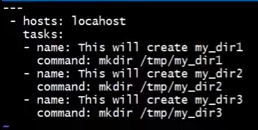
* As above, it will take only the ip address mentioned from the group and skip others

**Loops:**

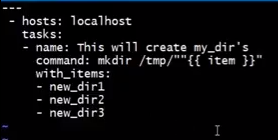
* Instead of using multiple tasks, we can use loops as below
* We use loops for repeated activity
* Iteration is nothing but loop



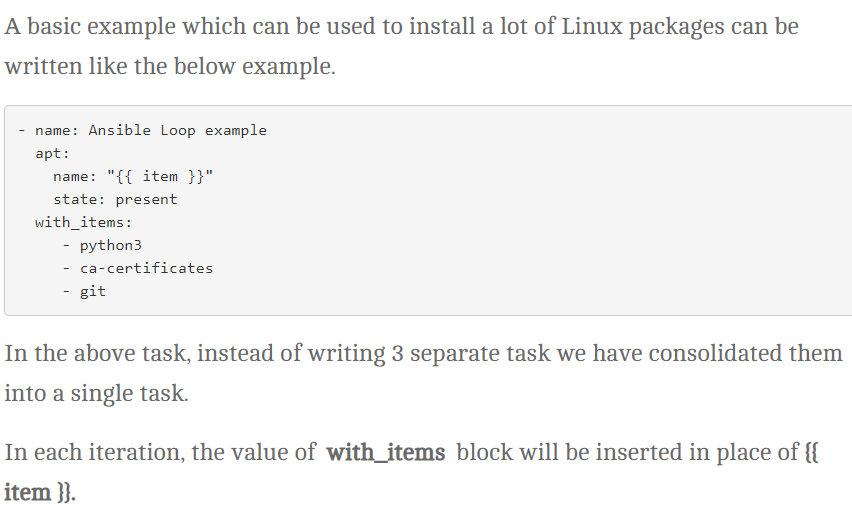
* Without items, it looks like below



* Below is with items

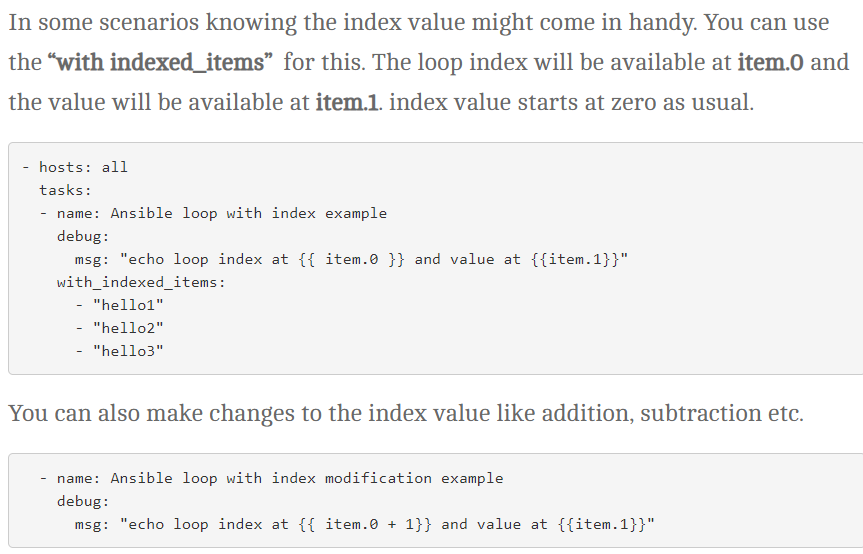


* It runs the command 3 times with items, we no need to write 3 different tasks for that

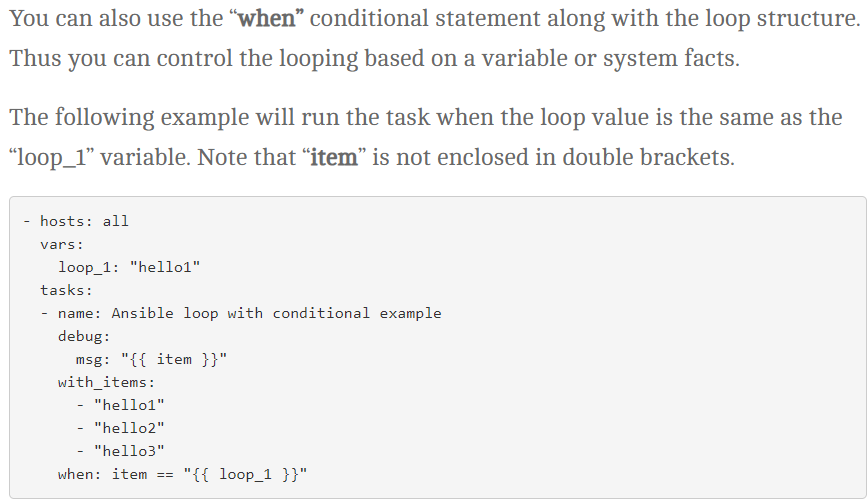




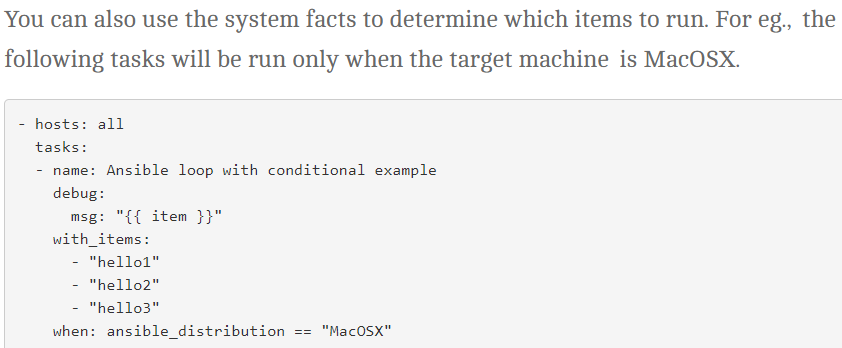
**Loop with index:**



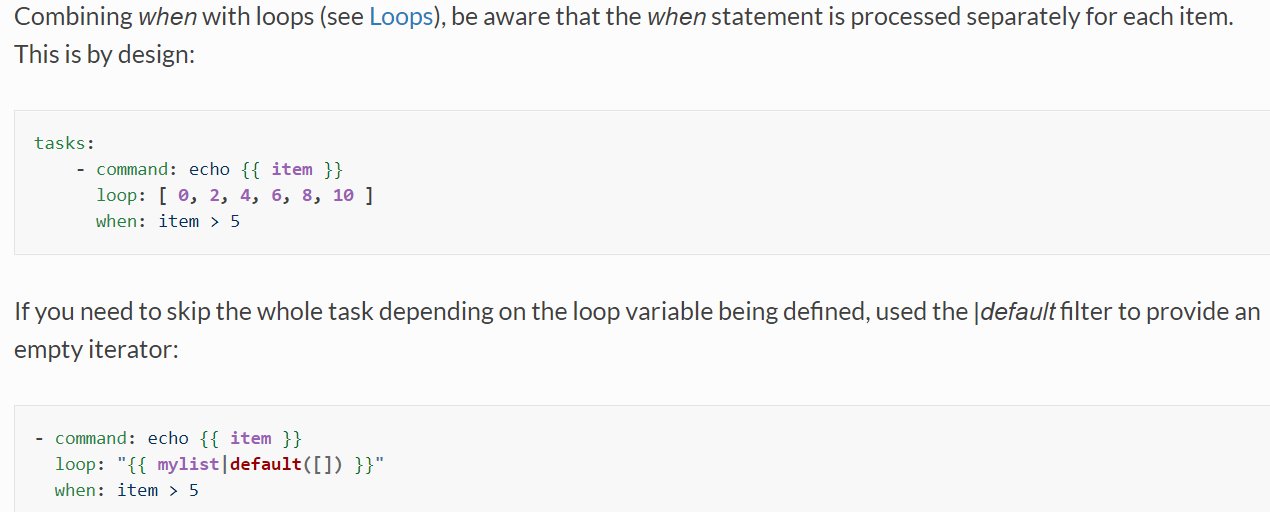
**Loop with condition:**



**Condition with system facts:**



**Another example:**



**Few examples:**

