

Extending Ansible with Advanced Features



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THE NETWORK ARCHITECT

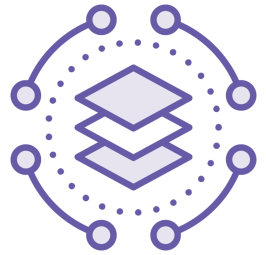
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Module Overview



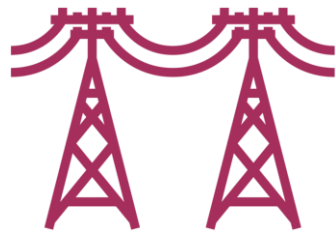
Introducing Ansible Roles



Highlighting roles



When to use roles



A key point: pre and post tasks

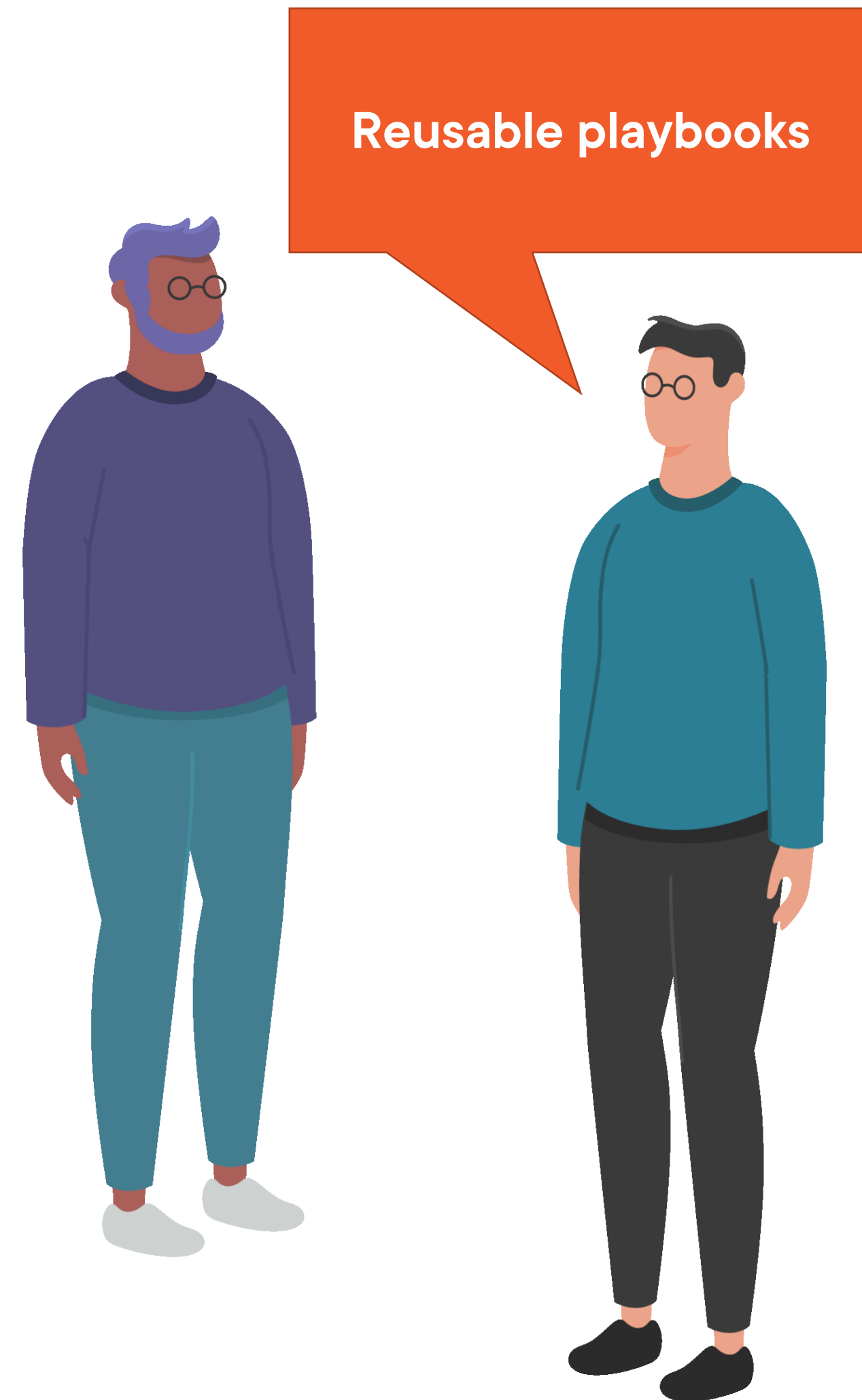


Dependent roles



Ansible Galaxy





Highlighting Collections

**Introducing
collections**

**Different types of
collections**

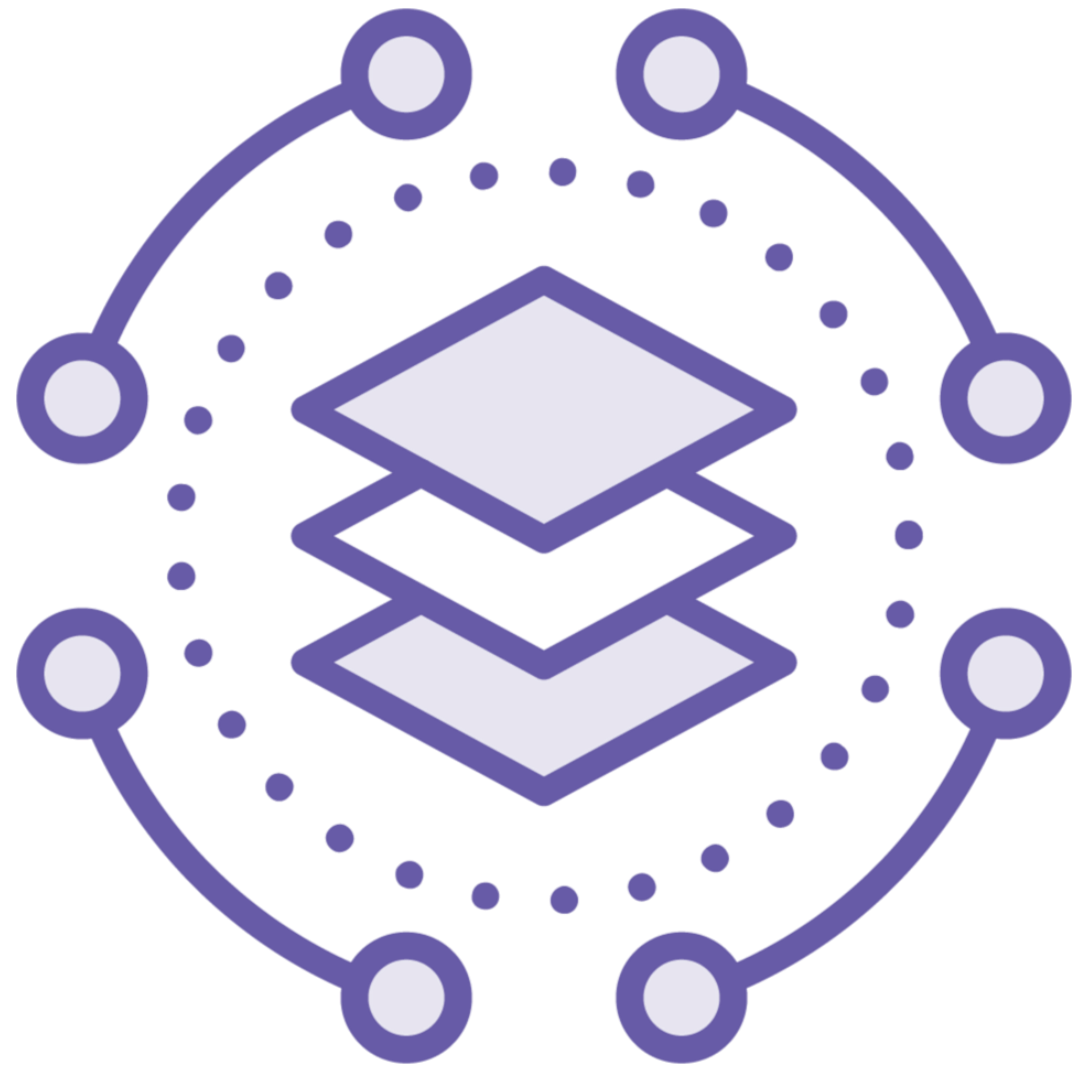
Versions of Ansible

Requirements file

**Access:
authentication
token**



Playbook Modularity



Introducing includes and Imports

The process involved

- Include tasks
- Import tasks
- Import playbooks

Demo



Includes and imports



Using Ansible Tags

Highlighting tags

Example of tags

List and skip tags

Start at task

Multiple tags



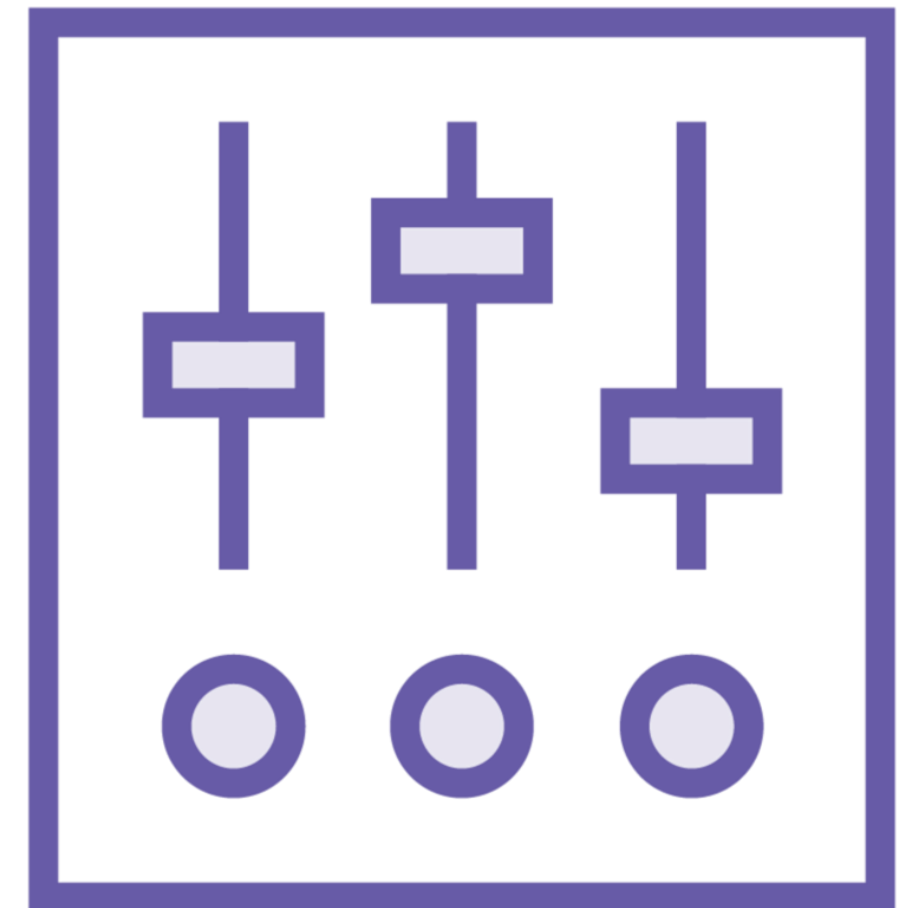
Applying Tags



Applying tags



Tags keyword



Tags and Includes

Running Tasks Local and Remote



Local tasks

Task delegation

Delegating facts

Task delegation and load balancing

Performing delegation

Delegate_to command

Delegate_facts True



Delegation Requirements



**Phyton
installed**



SSH access



**Host
resolution**



Inventory



Demo



Run tasks on different hosts

A bit of troubleshooting!



Data Manipulation

**Introducing lookups
and filters**

Detailing filters

Filter examples

Introducing plugins

**Different types of
plugins**



How do I extend Ansible?

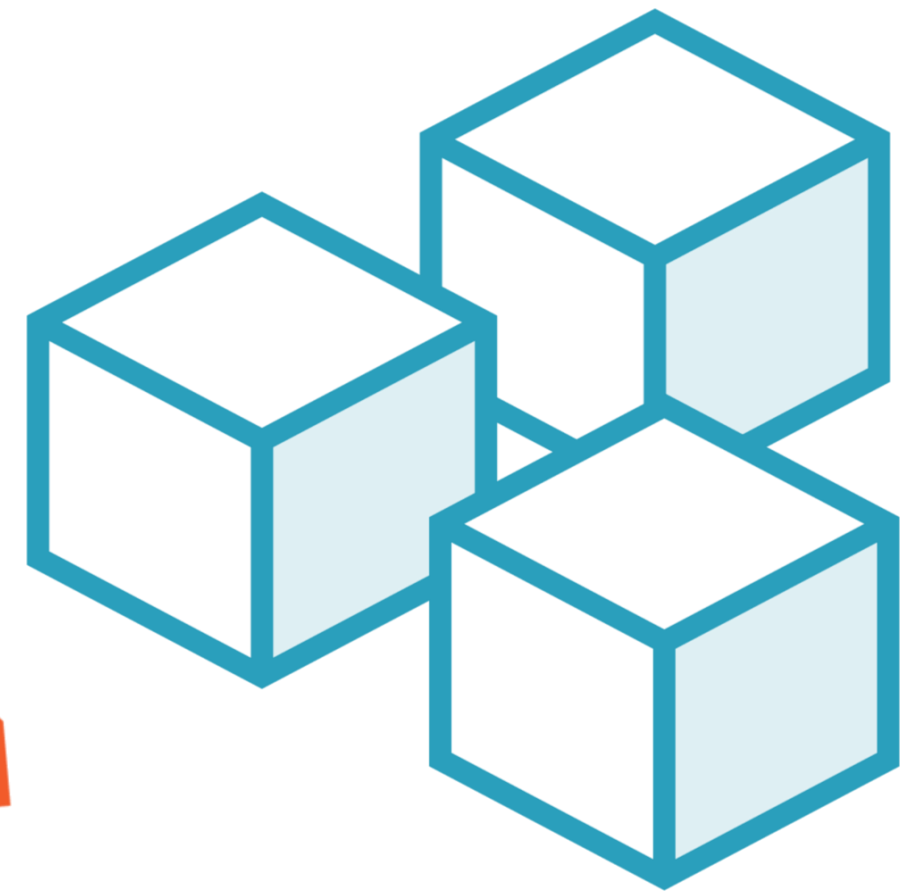


Ansible tool kit

Plugins



Filters



Review



Demo

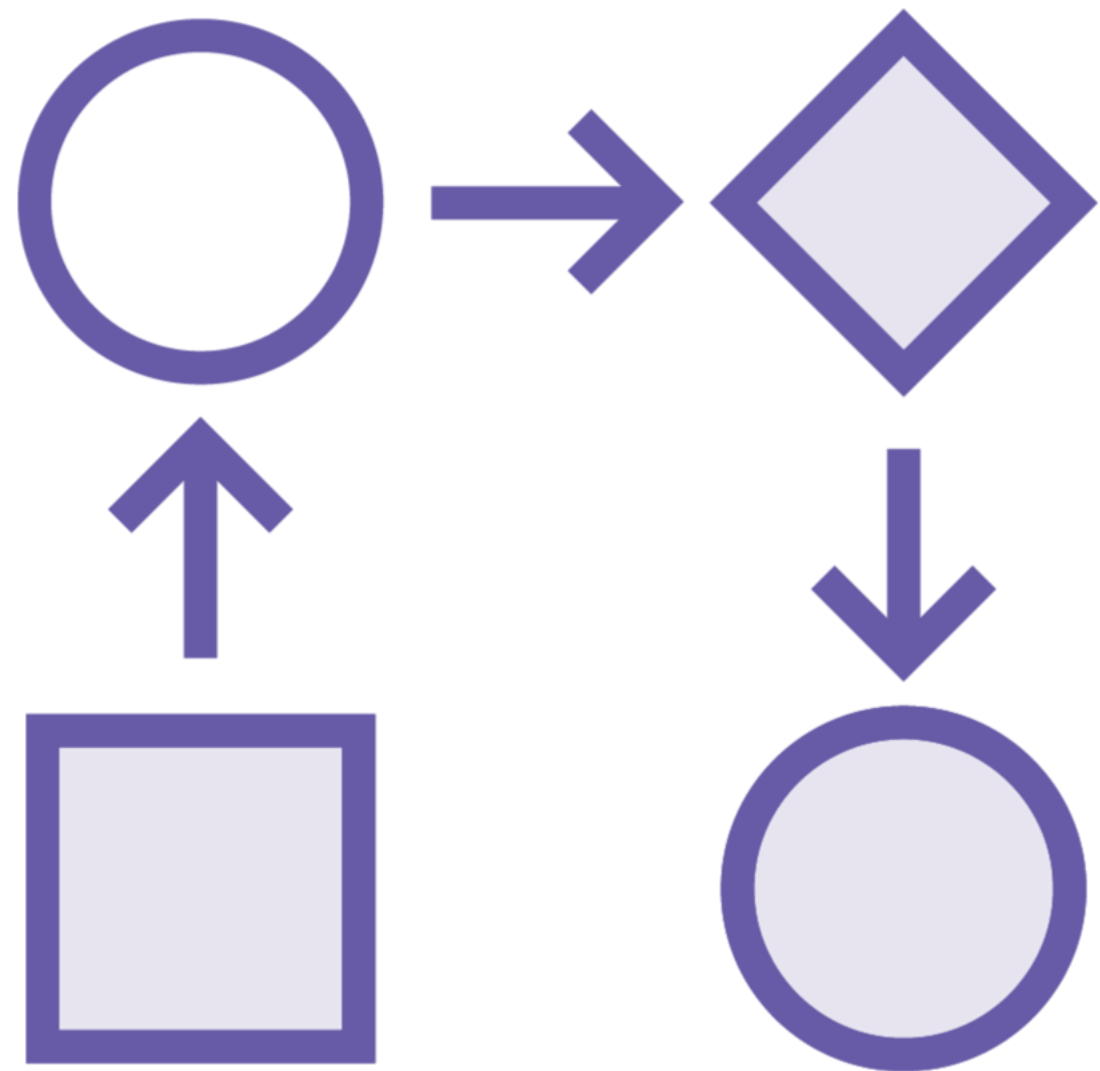


The different types of filters

Filter network related information



Different Types of Ansible Plugins



Filter plugin

Cache plugin

Inventory plugin

Lookup plugin

Callback plugin

Ansible Plugins

Filter plugin

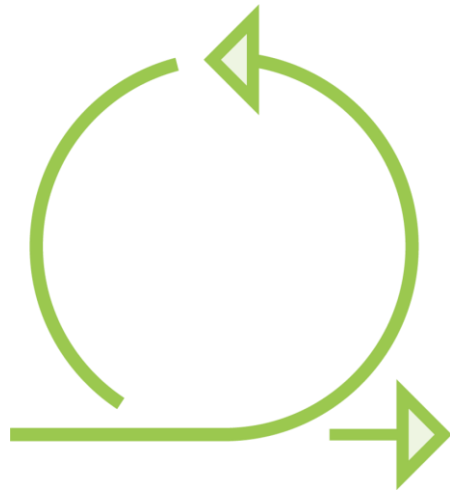
Become plugin

Connection plugin

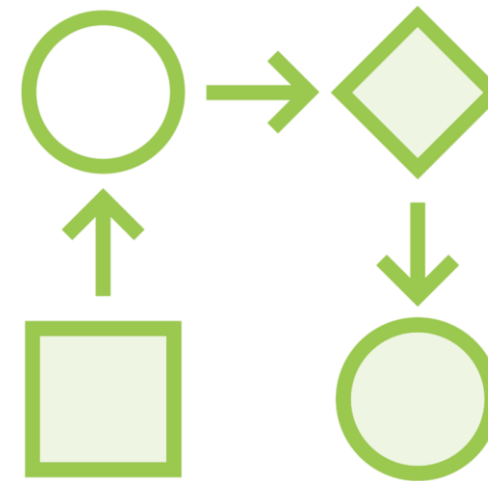
Introducing lookups



Lookup Plugins



Lookup plugin



Example of lookups



URL lookup plugin



Callback plugin



Types of callback plugins



Summary of plugins

Module Summary



Course Summary

