Let's start with the modules:

**Ping Module**

[Ping](https://gist.github.com/slathia15/450ecc43059ed73c75a74688cbdba35e) is used when we want to check whether the connection with our hosts defined in the inventory file is established or not.

ansible test-servers -m ping -u ec2-user

**ping**changes to **pong** if an SSH connection is established.

**Setup Module**

The setup module is used when we want to see the information of all the hosts, their configuration, and detailed information.

ansible test-servers -m setup -u ec2-user

This is a [snapshot](https://gist.github.com/slathia15/7f6c81e8c60b02d9ac23f4ab9379f483) of the configuration of my machine running on AWS.

**Copy Module**

The [copy module](https://gist.github.com/slathia15/65c164727aa572d1f913c9fcc8d63db3) is often used in writing playbooks when we want to copy a file from a remote server to destination nodes.

For example, suppose we want to copy a file from a remote server to all destination machines.

ansible test-servers -m copy -a 'src=/home/knoldus/Personal/blogs/blog3.txt dest=/tmp' -u ec2-user

**Yum Module**

We use the [Yum](https://gist.github.com/slathia15/d228b0c2d638a45ce98555190680afb2) module to install a service.

ansible test-servers -m yum -a 'name=httpd state=present' -become -u ec2-user

Apache2 will be installed on our machines.

The key point to note here is that we have to use -become, which is new in version 2.6; before, we had to use -s.

**Shell Module\***

When we want to run UNIX commands then we use shell module

ansible test-servers -m shell -a 'ls -la' -u ec2-user

https://gist.github.com/slathia15/be3f84fa101ab39fb0d1969b8a99fe5d

This will display all the files present in our machine with their permissions.

**Service Module**

When we want to ensure the state of a service that is service is running we use the service module.

ansible test-servers -m service -a 'name=httpd state=started' -become -u ec2-user

https://gist.github.com/slathia15/339cc8f6784bdec5037481f7dc225bbb

Apache2 is up on my machine.

**Debug Module**

To print a msg on hosts we use Debug module.

ansible test-servers -m debug -a 'msg=Hello' -u ec2-user

https://gist.github.com/slathia15/d408ac54c5cc1cddbf07d6b14abcaa3b

Hello, a message is printed on my machine.

**Template Module**

The Template module is used to copy a configuration file from the local system to the host server. It is the same as the copy module, but it dynamically binds group variables defined by us.

[Here](https://gist.github.com/slathia15/5890cfd642d49f6a6711acaae10ee905), I have vars in my source machine.

**Include Module**

When we want to include another playbook in our playbook, then we use the [Include module](https://gist.github.com/slathia15/685fa46cbc6c85af5029617dfd7fbdb9).

**User Module**

To add a particular user to our module we can use User module. [Here](https://gist.github.com/slathia15/a91dc8f67c31afc0978703674181ec40), we have added a user named Sachin to our module.

I hope this blog was useful. For more Ansible modules, we can refer to the documentation.