What are we going to see in this session?

- Provisioner
- Provisioner with config management tools
- Remote-execution
- Connection
- Script execution

Provisioner

- Provisioners are used to execute scripts or commands in remote machine as part of your resource creation or destruction.

- Provisioner can also used to bootstrap the resource while creation & destruction.

- Using provisioner you can just boot the instance and deploy the application whichever needed.

- You can do activities such as
    - File uploads
    - Remote execution
    - Trigger automation tools such as Ansible, Chef etc..

- Terraform always recommends to use provisioner if you not have any other option left out, also it should be defined at last at your configuration file.

Provisioner with config management tools

- Chef is integrated with terraform and you can add chef statements. Chef provisioner

- You can run puppet agent using remote-exec Puppet provisioner

- For Ansible you can first run terraform and output the IP address then run ansible playbook on those hosts.

Remote Execution

- Using remote-exec provisioner invokes a scripts or command after resource is created.

- remote-exec provisioner supports both ssh & winrm type connections.

- Arguments :
    - ✓ Inline : This is a list of command strings, which can execute in order they are provided.

- Script execution cannot be done directly, instead the script should be copied from local server to remote server and then it can be executed.

Connection

- To enable remote execution you need to enable connection to the newly create machine.

- The arguments required for it is

  - Public IP address
  - EC2 user for login
  - Private key are user password

Script Execution

- You can also copy the script from local machine to remote server once the instance is created.

- For that you can use provisioner with file.

    Arguments :
    - ✓ File source location [relative or absolute path]
    - ✓ File destination [better to put the files in /tmp since because it has read-write access for every user by default]

Codes

Code : git-repo [file path : Terraform/Codes/E10_provisioner_remote]

Code : git-repo [file path : Terraform/Codes/E11_provisioner_script]

End of this topic !

Any questions?

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