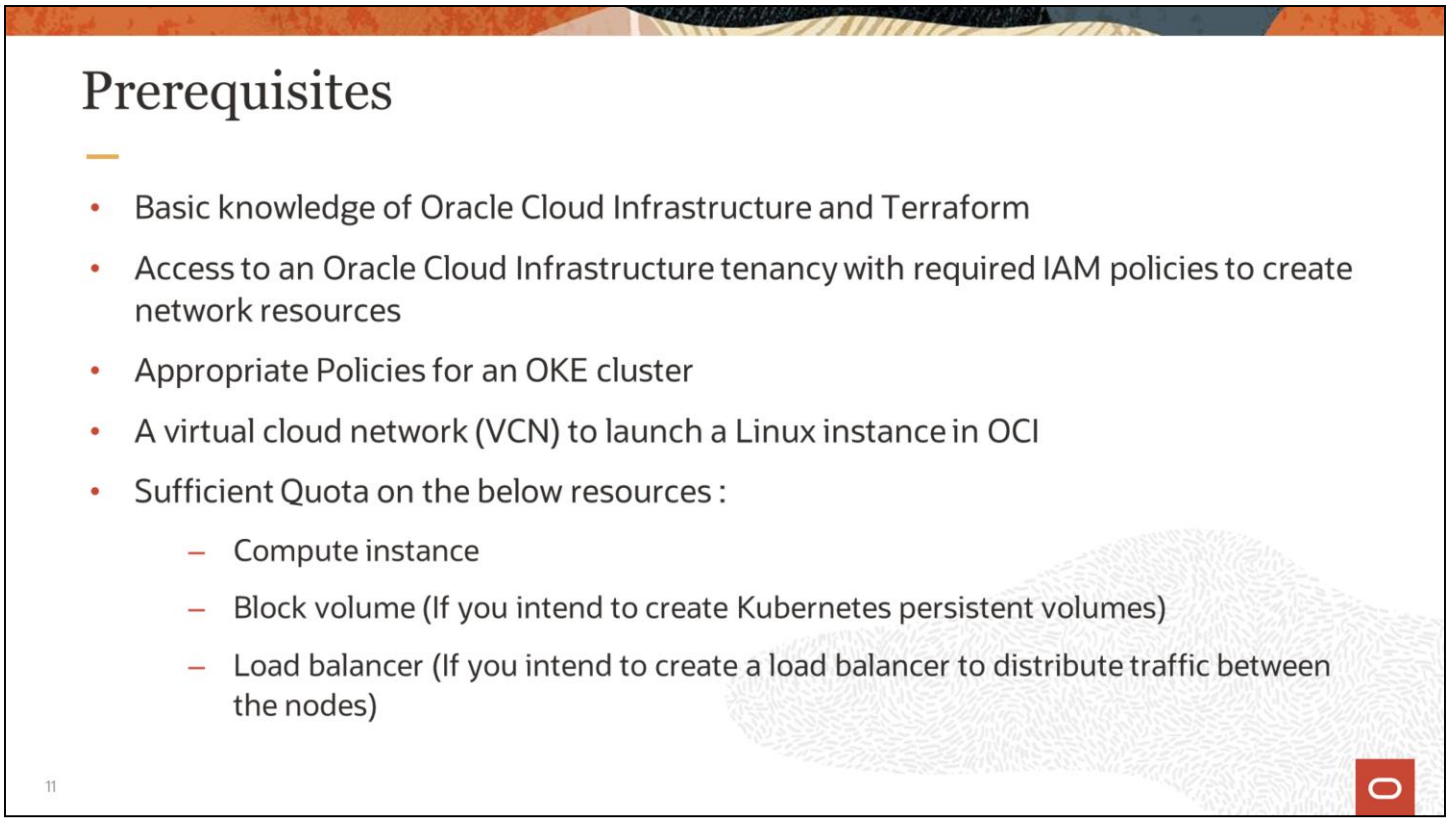
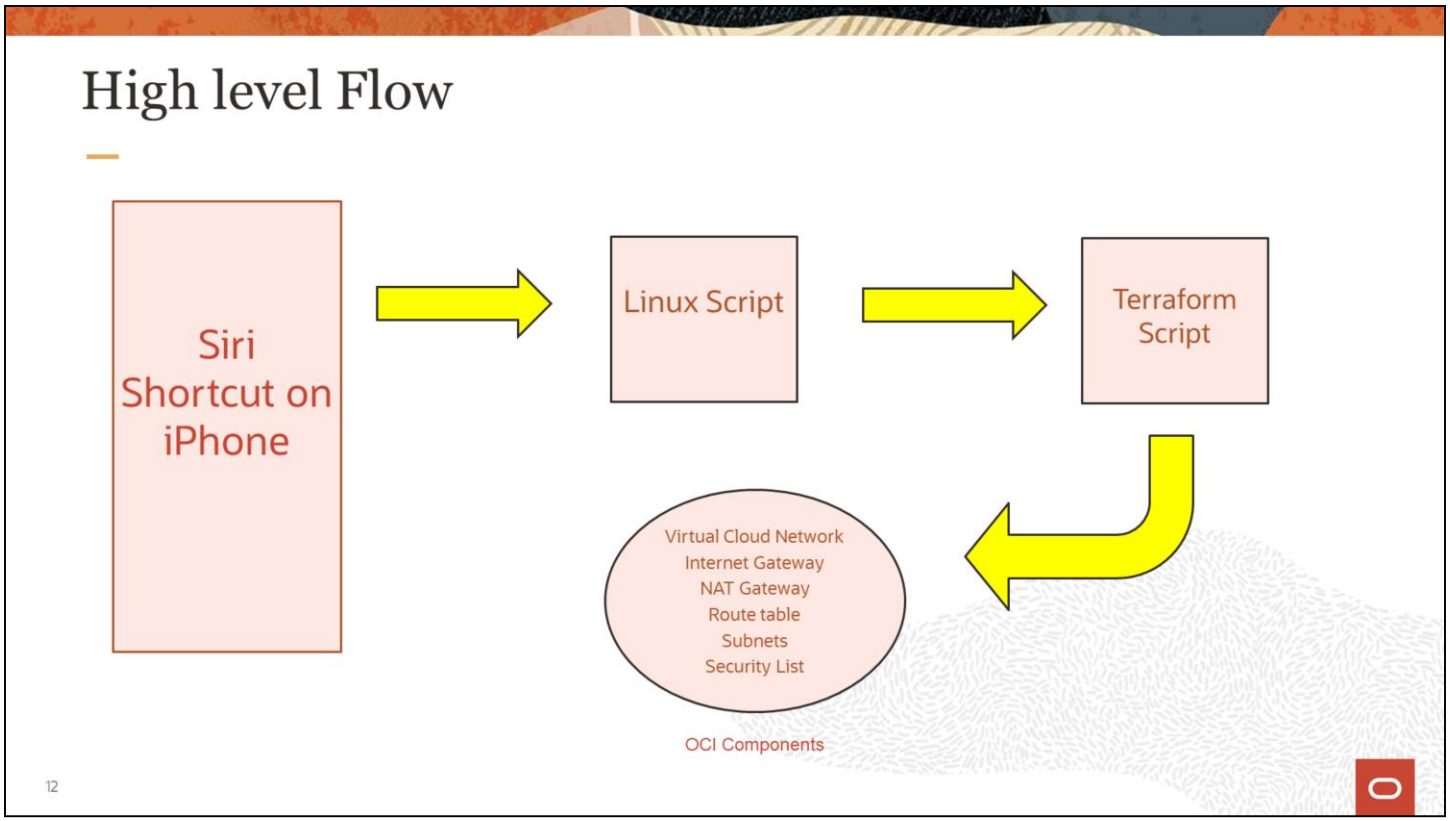


Before, creating a cluster using Siri, consider the above Prerequisites.

IAM Policies are required to create below network resources :

- VCN, subnets
- Internet gateway
- Route table
- Security lists



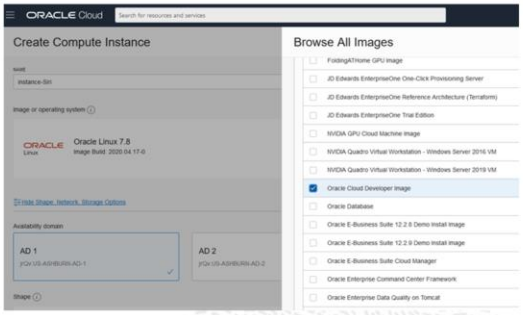
Below is the flow to create a cluster using Siri :

- Ask Siri to create a cluster and provide a name for the cluster.
- Siri shortcut calls the Linux script that in turn calls the Terraform script.
- The Terraform script creates the below Network Components and then creates the cluster :
  - Virtual Cloud Network
  - Internet Gateway
  - NAT Gateway
  - Route table
  - Subnets
  - Security List

High level steps : Step 1

- Provision a Linux Instance (VM) with public IP on OCI to host Terraform Scripts

- You may select Oracle Developer image which comes pre-installed with many useful tools.
- You will be required to specify a SSH key to ssh into the Linux Instance.
- The same key will be used later in the iOS Shortcut.



13

OCI Compute lets you provision and manage compute hosts, known as instances . You can launch instances as needed to meet your compute and application requirements. After you launch an instance, you can access it securely from your computer, restart it, attach and detach volumes, and terminate it when you're done with it.

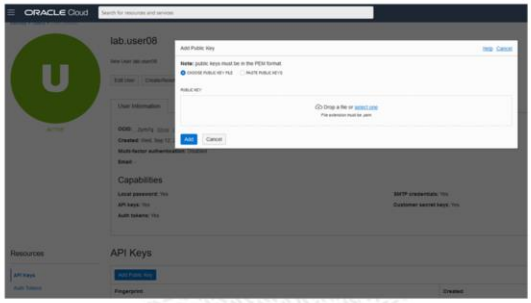
Oracle Cloud Infrastructure offers both bare metal and virtual machine instances.

Follow instruction here - Launching Your First Linux Instance for launching Linux instance.

High level steps : Step 2

- Prepare Linux Instance

- Generate and upload required OCI API Signing key
- Public key should be uploaded for the OCI user via Console and private key should be available on the Linux Instance
- Download or update (for Oracle Developer's Image) Terraform on OCI VM



14

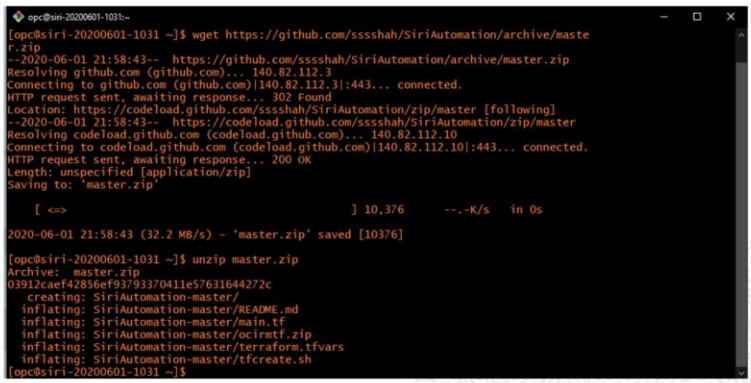
Your API requests will be signed with your private key, and Oracle will use the public key to verify the authenticity of the request. You must upload the public key for the OCI User via Console.

Refer here to generate API key : **How to generate an API Signing Key**

Download Terraform : Download Terraform by HashiCorp

High level steps : Steps 3

- Download scripts from GitHub to your Linux Instance.
- GitHub Link : https://github.com/sssshah/SiriAutomation



15

Run the below command to download the scripts from Github :

- wget https://github.com/sssshah/SiriAutomation/archive/master.zip
- unzip master.zip

The master.zip folder contains the following files :

- tfcreate.sh called from iPhone shortcut
- main.tf Terraform script that creates Oracle Cloud Infrastructure Objects and Kubernetes cluster
- terraform.tfvars Terraform variables file
- ocirmtf.zip used with the Oracle Resource Manager (Not meant to be used with Siri)

High level steps : Step 4

- Update *terraform.tfvars* downloaded from GitHub with your tenancy information and private API Signing key
  - Update Tenancy, Compartment and User OCID, fingerprint, private key path and region
  - The private API signing key should already be uploaded to the Linux Instance
  - Update main.tf for different subnet names, CIDR block etc. Alternatively, use terraform.tfvars to customize.

16

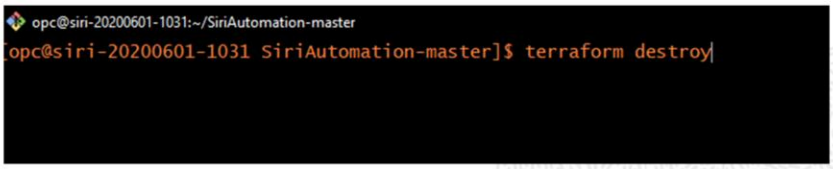
The file terraform.tfvars is the Terraform Variables file and contains the below variables: tenancy_ocid, compartment_ocid, user_ocid, fingerprint, private_key_path and region.

Updating the file main.tf is an optional step.

To retrive the Tenanacy and User OCID, refer here : Tenancy's OCID and User's OCID

High level steps : Step 5

- Test the terraform script from Linux Instance
  - Run tfcreate.sh script
  - Delete the cluster once the test is successful



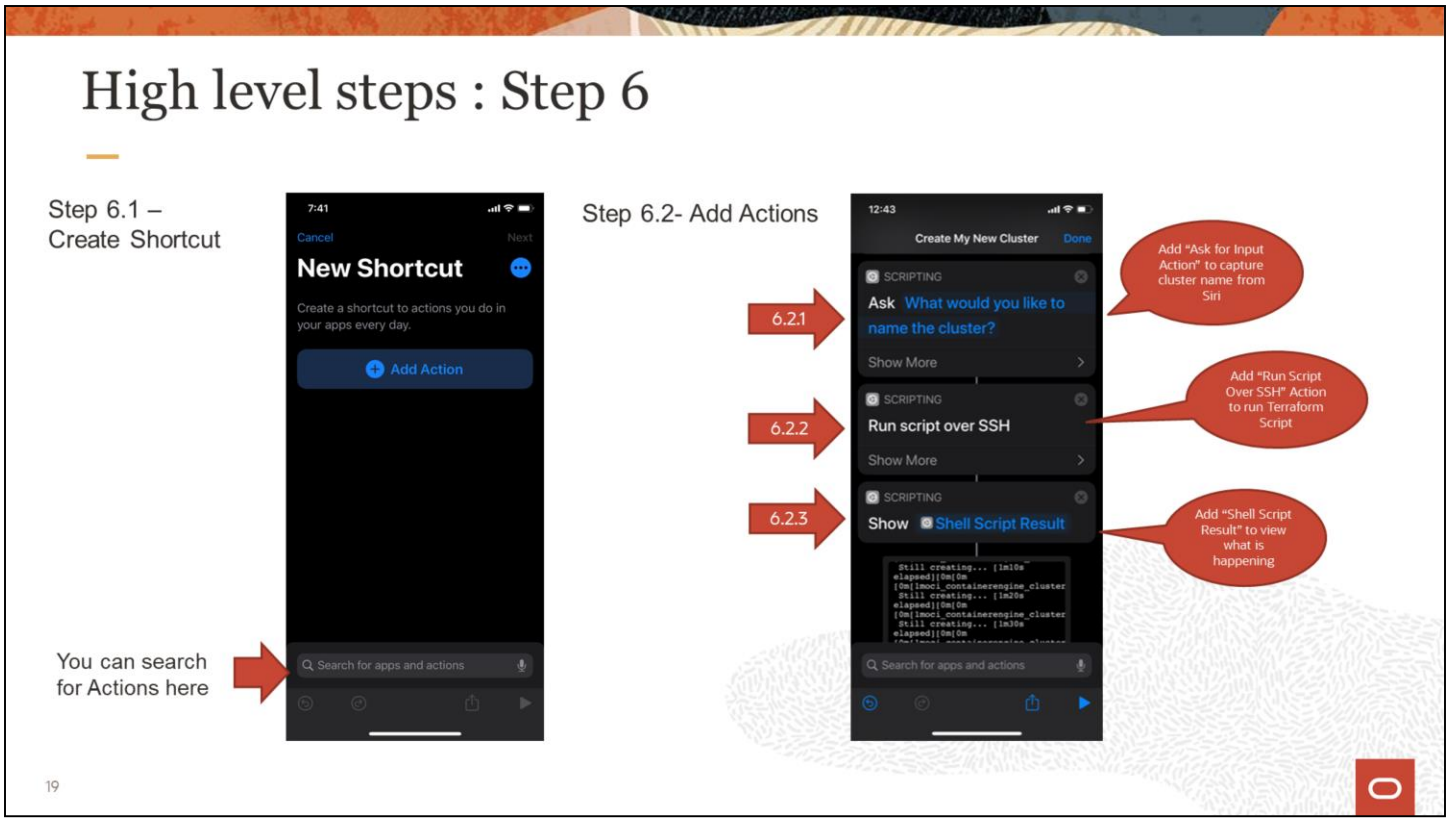
17

This is an optional step, just to confirm the terraform script works fine without any errors. Inorder to run tfcreate.sh, you may need to change the file permissions.

High level steps : Step 6

- Configure iPhone Shortcut to run the Terraform script on the Linux Instance
    1. Create Siri Shortcut
    2. Add Actions to Shortcut
    3. Configure script to run when called from Siri
    4. Add SSH key on Linux instance
    5. Specify script location and input parameters

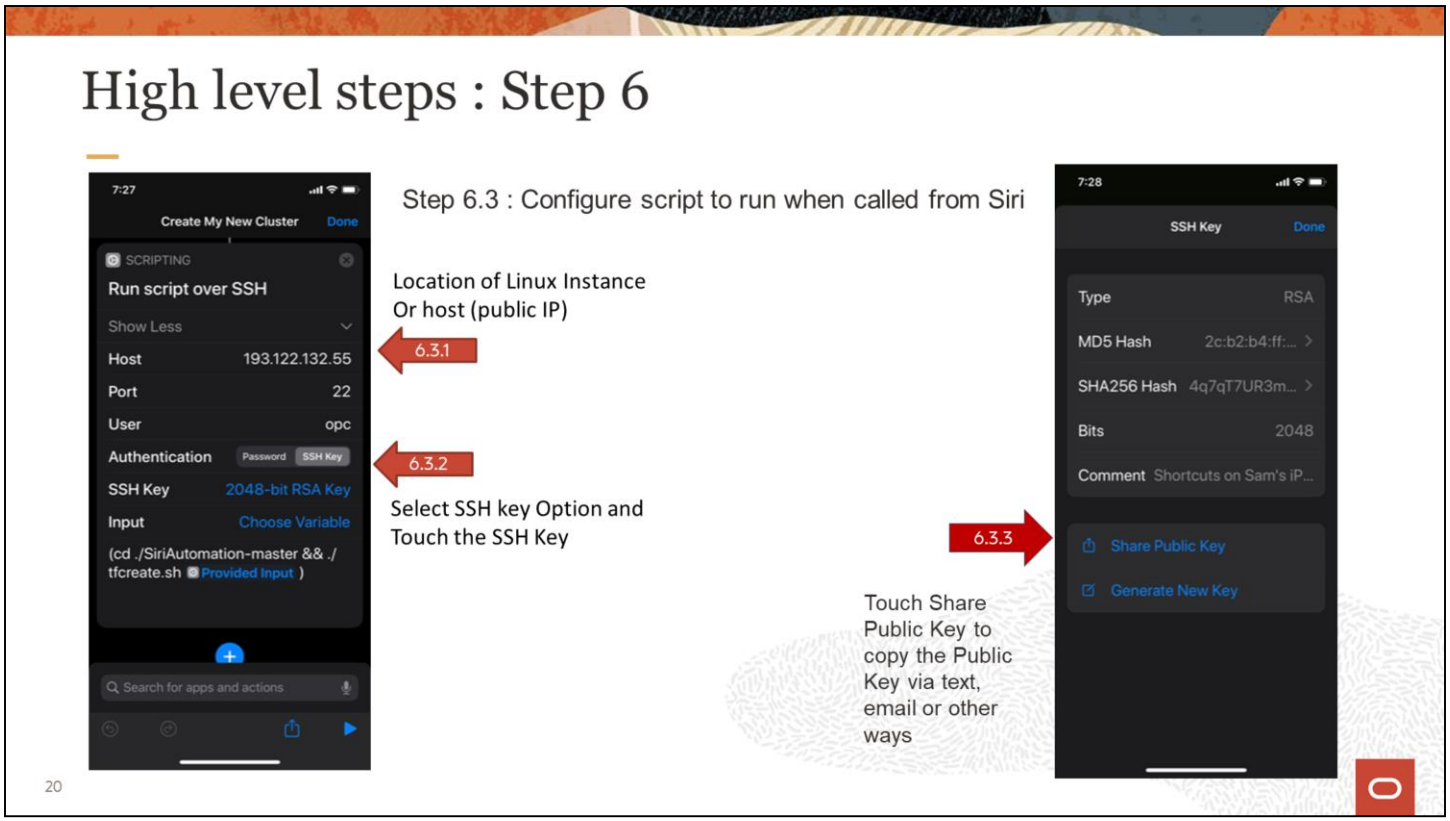
Step 6 is to create and configure the Siri Shortcut. Let us go through each of these steps in detail.



Step 6.1 : Create a new Siri Shortcut

Step 6.2 : Click on Add Action

- Step 6.2.1 : Add "Ask for Input Action"
- Step 6.2.2 : Add "Run Script over SSH"
- Step 6.2.3 : Add "Shell Script Result"

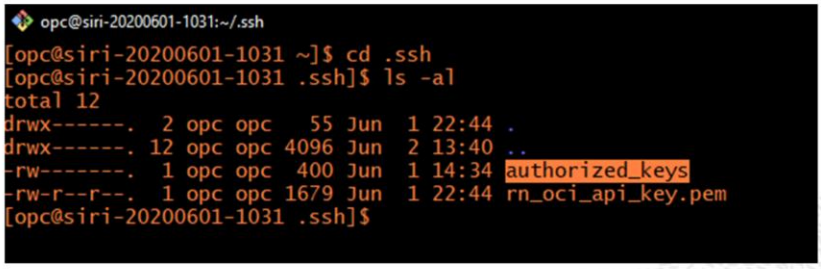


Step 6.3 : Configure script to run when called from Siri

- Step 6.3.1 : Provide the Host address or Public IP of Linux instance
- Step 6.3.2 : Select the SSH Key for Authentication
- Step 6.3.3 : Select Share Public Key

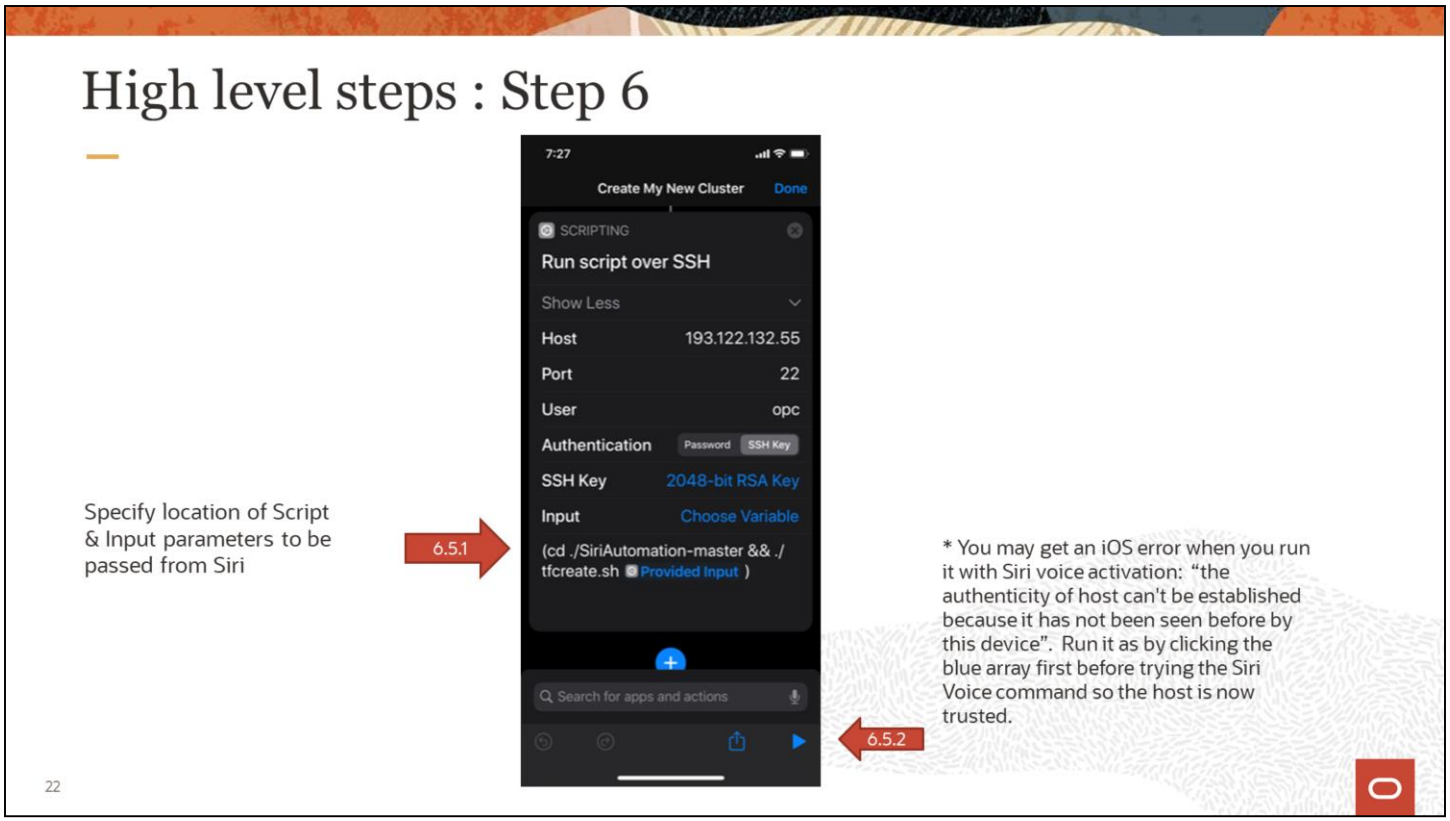
High level steps : Step 6

6.4 Add SSH key copied from iOS to authorized_keys file on your Linux Instance



21

Step 6.4 : From your iOS device copy the key to your SSH terminal window. Copy the SSH key to *authorized_keys* file on your Linux Instance.



Step 6.5.1 : Provide the path to the *tfcreate.sh* script and the input parameters.

Before trying out with Siri, try with the blue array icon first. Now, the host is trusted and you can continue testing with Siri.

The *tfcreate.sh* script calls *main.tf*, which creates all the required OCI Resources.

The final step is to talk to Siri and ask for a cluster to be created. Siri will respond back and ask you for the cluster name. Provide a name for the OKE cluster and relax! The cluster will be provosioned within a couple of minutes.