# Step-by-step Instructions

# Pre-requisites

Pre-requisite

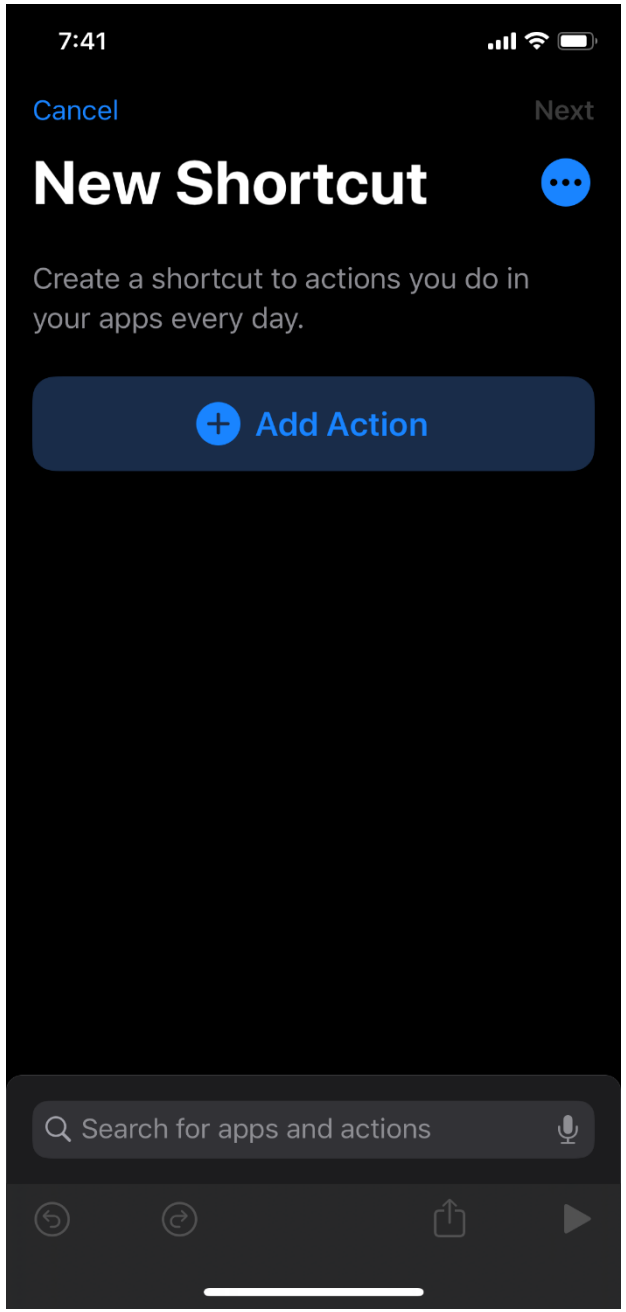
- Basic knowledge of Oracle Cloud Infrastructure and Terraform
- An Oracle Cloud Infrastructure(OCI) account with required IAM policies to create network resources, OKE Cluster
  - Policy Configuration for Cluster Creation and Deployment
  - Policy Reference
- A virtual cloud network (VCN) to launch a Linux instance in OCI.
  - For information about setting up cloud networks, see Overview of Networking.

# High Level Steps

1. Provision a Linux Instance(VM) with public IP on OCI (Oracle Cloud Infrastructure) to host Terraform Scripts
   - You may select Oracle Developer image which comes pre-installed with many useful tools (optional)
   - 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. Follow instruction here - Launching Your First Linux Instance
2. Prepare Linux Instance
   1. Generate and upload required OCI API Signing key
      - How to generate an API Signing Key
      - Public key should be uploaded for the OCI user via Console, and private key should be available on the Linux Instance on OCI (SCP keys if required)
   2. Download or update (for Oracle Developer's Image) Terraform on OCI VM (Linux Instance)
      - Download Terraform by HashiCorp
3. Download scripts from Github to your Linux Instance ( Github https://github.com/sssshah/SiriAutomation )
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
   - Where to get Tenancy's OCID and User's OCID
   - The private API signing key should already be uploaded to the Linux Instance
   - [Optional]Update main.tf for different subnet names, CIDR block etc. Alternatively, use terraform.tfvars to customize
5. [Optional] Test the terraform script from Linux Instance
   - Run tfcreate.sh script (you may need to change the file permissions)
   - Destroy the cluster once the test is successful
6. Configure iPhone Shortcut to run the Terraform script on the Linux Instance (Screenshots are provided in next few slides)
7. Run Shortcut from the iPhone – "Hey Siri!, create my new cluster"
   - where *<create my new cluster>* is the name of the shortcut on iOS you created earlier
   - Siri will ask you for the cluster name. Reply Siri with a name you want to assign to your cluster.

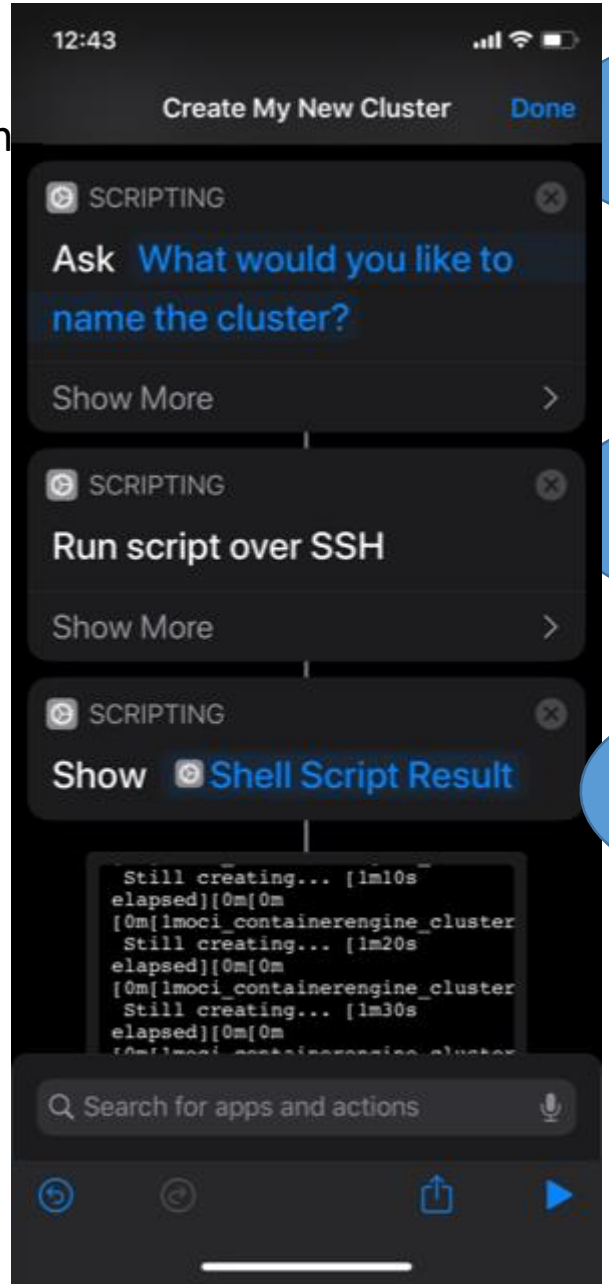
# Creating Shortcuts on iOS

Step 1 – Create Shortcut




You can search for Actions here

Step 2- Add Action



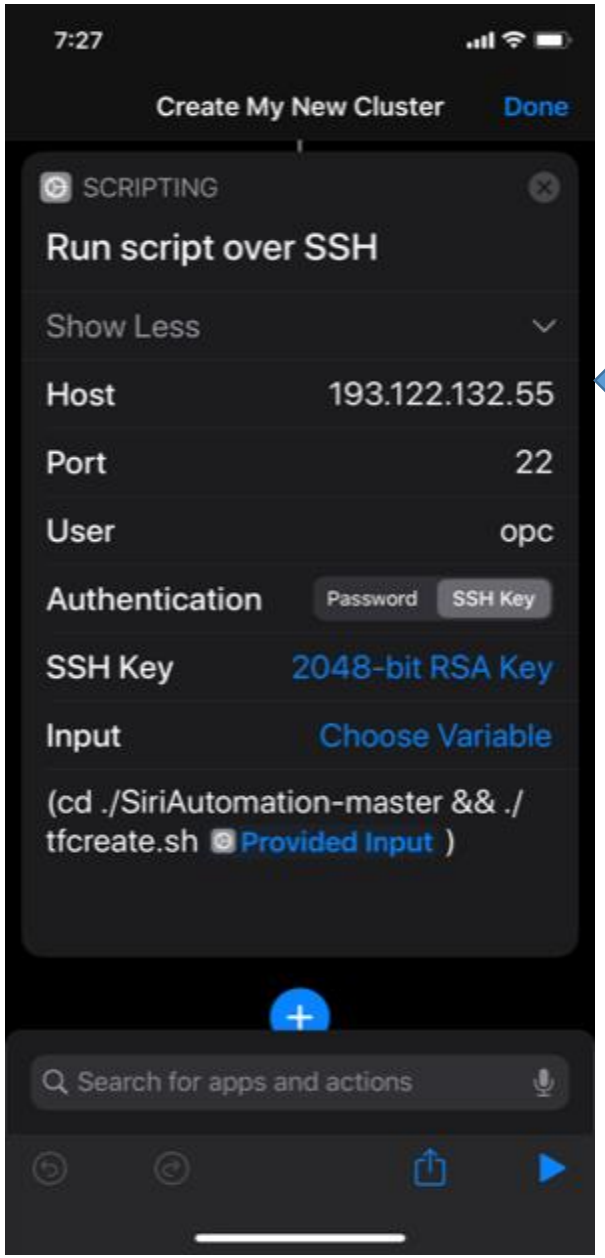

Add "Ask for Input Action" to capture cluster name from Siri

Add "Run Script Over SSH" Action to run Terraform Script

Add "Shell Script Results" to view the what is happening

# Creating Shortcuts on iOS

Step 3 – Configure script To run when called  thru Siri




Location of Linux Instance
Or host (public IP)

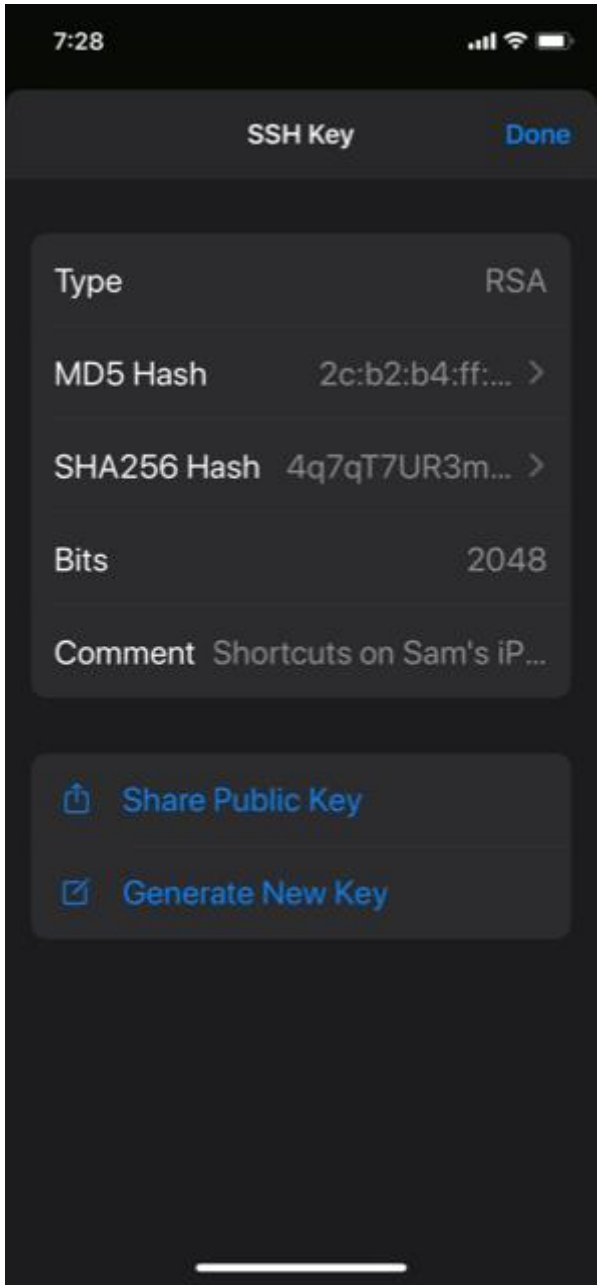
3.1

3.2

Select SSH key Option and
Touch the SSK Key

3.3

Touch Share SSH key to copy the Public Key via text, email or other ways



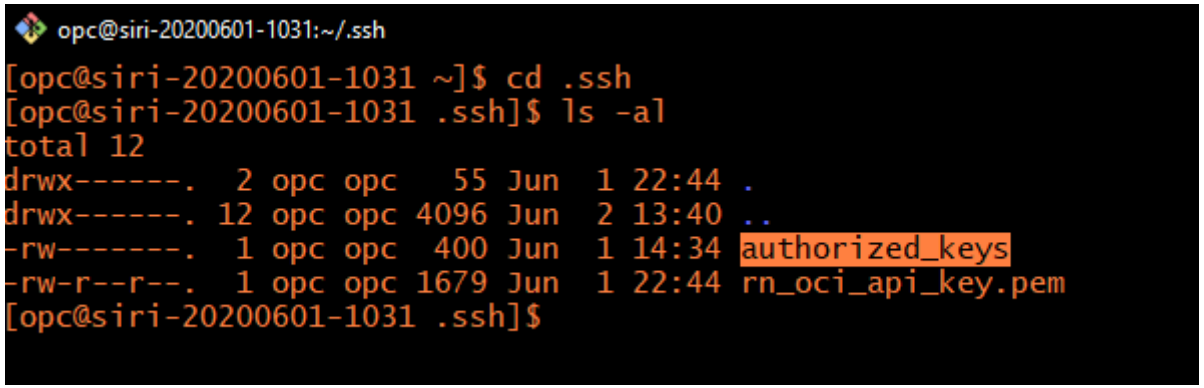
# Creating Shortcuts on iOS

Step 3 – Configure script To run when called  thru Siri

3.4

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

(From your iOS device you are copying the key to your SSH terminal window)

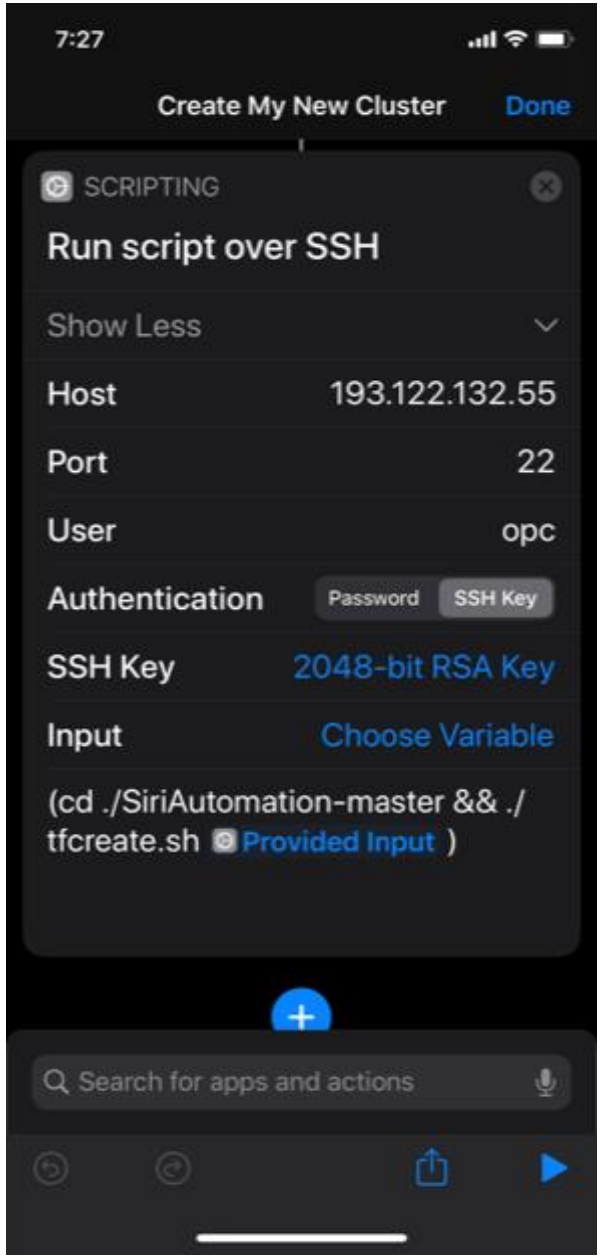


# Creating Shortcuts on iOS

Step 3 – Configure script To run when called  thru Siri

Specify location of Script
& Input parameters to be passed from Siri

3.5




Run Shortcut*

3.6

* You may get an iOS error when you run it with Siri voice activation:  “the authenticity of host can't be established because it has not been seen before by this device”.  Run it as by clicking the blue array first before trying the Siri Voice command so the host is now trusted.