

## RUNNING A SHELL SCRIPT ON A REMOTE SYSTEM USING SSH

- **Open Terminal on the Local System**

Begin by opening your terminal on your local machine to establish the SSH connection.

- **Generate an SSH Key Pair on the Local System**

Run the following command to generate an RSA key pair:

```
ssh-keygen -t rsa -b 2048
```

```
lenovo@lenovo-81VD:~$ ssh-keygen -t rsa -b 2048
Generating public/private rsa key pair.

Enter file in which to save the key (/home/lenovo/.ssh/id_rsa): /home/lenovo/.ssh/id_rsa already exists.
Overwrite (y/n)? Y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/lenovo/.ssh/id_rsa
Your public key has been saved in /home/lenovo/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:ldrlEJonYD0Dj8TeHI207v5TSrDmy0Snte6c6HUdHk lenovo@lenovo-81VD
The key's randomart image is:
+---[RSA 2048]----+
|
|  .  .
|  .  . + o
| o   o.* .
|+ B ..o=E+
|  O * .S.+ o
| . O o   o
| . = B ..
| + X+O+
| oB%+ .
+-----[SHA256]-----+
```

- **Copy the Public Key to the Remote System**

Use the `ssh-copy-id` command to copy your public SSH key to the remote system:

**ssh-copy-id username@remote\_ip\_address**

```
lenovo@lenovo-81VD:~$ ssh-copy-id pglab@10.107.221.240
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
mythreya@10.107.221.240's password:

Number of key(s) added: 1

Now try logging into the machine, with:  "ssh pglab@10.107.221.240"
and check to make sure that only the key(s) you wanted were added.
```

- **Login to the Remote System**

After copying the public key, connect to the remote system using SSH:

**ssh username@remote\_ip\_address**

```
lenovo@lenovo-81VD:~$ ssh pglab@10.107.221.240 'bash ~/test_script.sh'
```