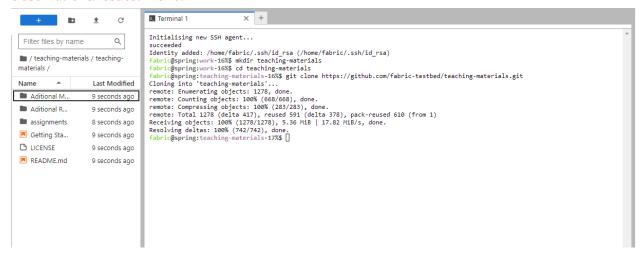
# CLab 6 - Routing with IPv4

## Installing the Tutorial

Observations/Issues: None.



# Creating the Slice

Observations/Issues: Had issues with the first script where the project\_id was not defined. Was remedied by specifying the ID for the Computer Networks Project.

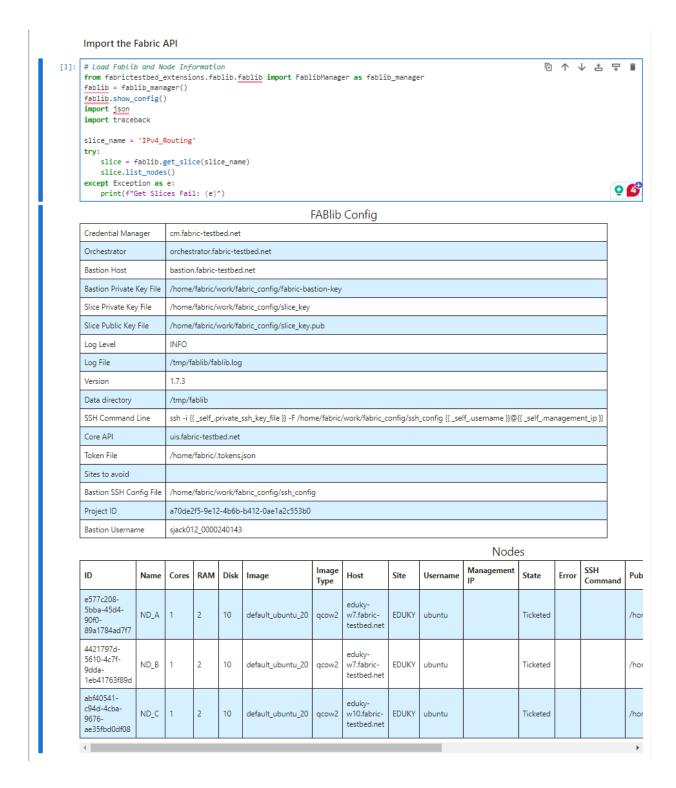
```
[4]: # Import Fablib
from fabrictestbed_extensions.fablib.fablib import FablibManager as fablib_manager
fablib = fablib_manager(project_id="a70de2f5-9e12-4b6b-b412-0ae1a2c553b0")
fablib.show_config()
import json
import traceback
```

#### FABlib Config

Credential Manager	cm.fabric-testbed.net			
Orchestrator	orchestrator.fabric-testbed.net			
Bastion Host	bastion.fabric-testbed.net			
Bastion Private Key File	/home/fabric/work/fabric_config/fabric-bastion-key			
Slice Private Key File	/home/fabric/work/fabric_config/slice_key			
Slice Public Key File	/home/fabric/work/fabric_config/slice_key.pub			
Log Level	INFO			
Log File	/tmp/fablib/fablib.log			
Version	1.7.3			
Project ID	a70de2f5-9e12-4b6b-b412-0ae1a2c553b0			
Data directory	/tmp/fablib			
SSH Command Line	ssh -i {{ _selfprivate_ssh_key_file }} -F /home/fabric/work/fabric_config/ssh_config {{ _selfusername }}@{{selfmanagement_ip }}			
Core API	uis.fabric-testbed.net			
Token File	/home/fabric/.tokens.json			
Sites to avoid				
Bastion SSH Config File	/home/fabric/work/fabric_config/ssh_config			
Bastion Username	sjack012_0000240143			

Importing the Fabric API

Observations/Issues: None.



### SSH'ing Into Nodes

Observations/Issues: Cannot figure out how to SSH into these nodes. Managed to fix this by rerunning the hello-fabric script from git clone. Then rerunning the script in IPv4

# routing/Routing\_with\_IPv4.ipynb and I finally got the SSH commands. However, now I can't access the nodes because they are publickey. I'm not really sure how to fix this.

	Image Type	Host	Site	Username	Management IP	State	Error	SSH Command
ubuntu_20	qcow2	eduky- w7.fabric- testbed.net	EDUKY	ubuntu	2610:1e0:1700:206:f816:3eff:fe53:a0f2	Active		ssh -i /home/fabric/work/fabric_config/slice_key -F /home/fabric/work/fabric_config/ssh_config ubuntu@2610:1e0:1700:206:f816:3eff:fe53:a0f2
ubuntu_20	qcow2	eduky- w7.fabric- testbed.net	EDUKY	ubuntu	2610:1e0:1700:206:f816:3eff:fe74:13bf	Active		ssh -i /home/fabric/work/fabric_config/slice_key -F /home/fabric/work/fabric_config/ssh_config ubuntu@2610:1e0:1700:206:f816:3eff:fe74:13bf
ubuntu_20	qcow2	eduky- w10.fabric- testbed.net	EDUKY	ubuntu	2610:1e0:1700:206:f816:3eff:fed1:846e	Active		ssh -i /home/fabric/work/fabric_config/slice_key -F /home/fabric/work/fabric_config/ssh_config ubuntu@2610:1e0:1700:206:f816:3eff:fed1:846e

```
fabric@spring:work-17%$ ssh -i /home/fabric/work/fabric config/slice key -F /home/fabric
/work/fabric_config/ssh_config ubuntu@2610:1e0:1700:206:f816:3eff:fe53:a0f2
Warning: Permanently added 'bastion.fabric-testbed.net' (ED25519) to the list of known h
Warning: Permanently added '2610:1e0:1700:206:f816:3eff:fe53:a0f2' (ED25519) to the list
of known hosts.
ubuntu@2610:1e0:1700:206:f816:3eff:fe53:a0f2: Permission denied (publickey).
fabric@spring:work-17%$ ssh -i /home/fabric/work/fabric config/slice key -F /home/fabric
/work/fabric_config/ssh_config ubuntu@2610:1e0:1700:206:f816:3eff:fe53:a0f2
Warning: Permanently added 'bastion.fabric-testbed.net' (ED25519) to the list of known h
Warning: Permanently added '2610:1e0:1700:206:f816:3eff:fe53:a0f2' (ED25519) to the list
of known hosts.
ubuntu@2610:1e0:1700:206:f816:3eff:fe53:a0f2: Permission denied (publickey).
fabric@spring:work-17%$ ssh -i /home/fabric/work/fabric_config/slice_key -F /home/fabric
/work/fabric_config/ssh_config ubuntu@2610:1e0:1700:206:f816:3eff:fe53:a0f2
Warning: Permanently added 'bastion fabric-testbed net' (ED25519) to the list of known h
osts.
Warning: Permanently added '2610:1e0:1700:206:f816:3eff:fe53:a0f2' (ED25519) to the list
of known hosts.
ubuntu@2610:1e0:1700:206:f816:3eff:fe53:a0f2: Permission denied (publickey).
fabric@spring:work-17%$ ssh -i /home/fabric/work/fabric_config/slice_key -F /home/fabric
/work/fabric_config/ssh_config ubuntu@2610:1e0:1700:206:f816:3eff:fe74:13bf
Warning: Permanently added 'bastion.fabric-testbed.net' (ED25519) to the list of known h
Warning: Permanently added '2610:1e0:1700:206:f816:3eff:fe74:13bf' (ED25519) to the list
of known hosts.
ubuntu@2610:1e0:1700:206:f816:3eff:fe74:13bf: Permission denied (publickey).
fabric@spring:work-17%$
```