ECE 456 Lab 03

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## ScreenShot of resources turned on

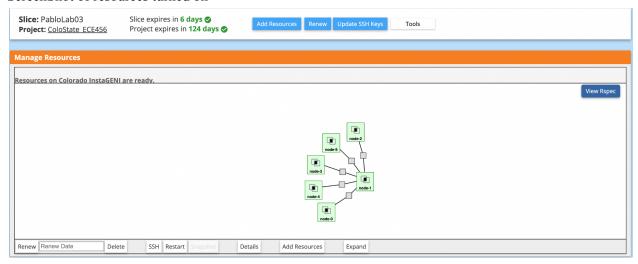


Figure 1: Resources linked on slice and all green.

Figure 2: nslookup running on ssh terminal

```
[pablocor@node-1:~$
[pablocor@node-1:~$ hostname
  node-1.pablolab03.ch-geni-net.instageni.colorado.edu
  pablocor@node-1:~$
```

Figure 3: hostname running on ssh terminal

```
pablocor@node-1:~$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 172.17.4.19 netmask 255.240.0.0 broadcast 172.31.255.255
        inet6 fe80::8d:17ff:fe91:b02e prefixlen 64 scopeid 0x20<link>
        ether 02:8d:17:91:b0:2e txqueuelen 1000 (Ethernet)
        RX packets 744 bytes 90752 (90.7 KB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 669 bytes 78730 (78.7 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
eth1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.10.2.2 netmask 255.255.255.0 broadcast 10.10.2.255
        inet6 fe80::d9:cdff:fef6:d6ed prefixlen 64 scopeid 0x20<link>
        ether 02:d9:cd:f6:d6:ed txqueuelen 1000 (Ethernet)
        RX packets 36 bytes 3348 (3.3 KB)
RX errors 0 dropped 0 overruns 0
        TX packets 32 bytes 4712 (4.7 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
eth2: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.10.1.1 netmask 255.255.255.0 broadcast 10.10.1.255
        inet6 fe80::5b:68ff:fe11:9964 prefixlen 64 scopeid 0x20<link>
        ether 02:5b:68:11:99:64 txqueuelen 1000 (Ethernet)
        RX packets 60 bytes 6024 (6.0 KB)
RX errors 0 dropped 0 overruns 0
                                             frame 0
        TX packets 31 bytes 4608 (4.6 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
eth3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.10.5.2 netmask 255.255.255.0 broadcast 10.10.5.255
        inet6 fe80::96:9dff:fe43:a591 prefixlen 64 scopeid 0x20<link>
        ether 02:96:9d:43:a5:91 txqueuelen 1000 (Ethernet)
        RX packets 49 bytes 4268 (4.2 KB)
        RX errors 0 dropped 0 overruns 0
                                             frame 0
        TX packets 30 bytes 4538 (4.5 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
eth4: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.10.3.2 netmask 255.255.255.0 broadcast 10.10.3.255
        inet6 fe80::f3:c8ff:fec1:9533 prefixlen 64 scopeid 0x20<link>
        ether 02:f3:c8:c1:95:33 txqueuelen 1000 (Ethernet)
        RX packets 53 bytes 5028 (5.0 KB)
        RX errors 0 dropped 0 overruns 0
                                             frame 0
        TX packets 31 bytes 4391 (4.3 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
eth5: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 10.10.4.2 netmask 255.255.255.0 broadcast 10.10.4.255
        inet6 fe80::85:29ff:fe25:9762 prefixlen 64 scopeid 0x20<link>
        ether 02:85:29:25:97:62 txqueuelen 1000
                                                  (Ethernet)
        RX packets 57 bytes 5571 (5.5 KB)
        RX errors 0 dropped 0 overruns 0
                                             frame 0
        TX packets 30 bytes 4538 (4.5 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 2<u>55.0.0.0</u>
        inet6 :: 1 prefixlen 128 scopeid 0x10<host>
        loop txqueuelen 1000 (Local Loopback)
RX packets 0 bytes 0 (0.0 B)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
pablocor@node-1:~$
```

Figure 4: if config running on ssh terminal

```
[pablocor@node-1:~$
[pablocor@node-1:~$
[pablocor@node-1:~$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address
                                                Foreign Address
                                                                          State
            0
                    0 pcvm4-19.instagen:45318 172.31.245.144:16505
                                                                          ESTABLISHED
tcp
            0
                    0
                      pcvm4-19.instagen:45326 172.31.245.144:16505
                                                                          ESTABLISHED
tcp
tcp
            ø
                 300 pcvm4-19.instagen:29611 c-73-14-183-33.hs:58751 ESTABLISHED
udp
            0
                    0 pcvm4-19.instagen:35472 boss.instageni.col:8509 ESTABLISHED
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags
                            Type
                                       State
                                                       I-Node
                           DGRAM
                                                       25381
                                                                /run/user/20003/systemd/notify
unix
      2
              [ ]
unix
      2
                           DGRAM
                                                       17103
                                                                 /var/spool/postfix/dev/log
              Г
                1
unix
      3
                           DGRAM
                                                       12728
                                                                 /run/systemd/notify
unix
                                                                 /run/systemd/journal/dev-log
              12
                1
                           DGRAM
                                                       12739
unix
                           DGRAM
                                                       12753
                                                                 /run/systemd/journal/socket
       8
                                                       12961
                                                                 /run/systemd/journal/syslog
unix
      2
                           DGRAM
unix
       3
                ]
                           STREAM
                                       CONNECTED
                                                       13885
unix
      2
                1
                           DGRAM
                                                       13511
              unix
      2
                ]
                           DGRAM
                                                       20179
unix
       2
                           DGRAM
                                                       25336
                1
unix
                           STREAM
                                       CONNECTED
                                                                 /run/systemd/journal/stdout
       3
                                                       25329
unix
       2
                ]
                           DGRAM
                                                       25354
                j
]
unix
       2
                           DGRAM
                                                       17080
unix
                           DGRAM
       2
                                                       19515
unix
                1
                           STREAM
                                                       19512
      3
                                       CONNECTED
                                                                 /run/systemd/journal/stdout
                ]
                                                       14510
unix
       3
                           STREAM
                                       CONNECTED
unix
       3
                           STREAM
                                       CONNECTED
                                                       25328
                1
unix
                           STREAM
                                       CONNECTED
                                                       19513
                                                                 /run/systemd/journal/stdout
      3
                                                       14804
                                                                 /run/systemd/journal/stdout
unix
       3
                           STREAM
                                       CONNECTED
                                       CONNECTED
                                                       16114
unix
       3
                ]
                           STREAM
unix
                                                       25382
                           DGRAM
       3
unix
       3
                           DGRAM
                                                       19523
                j
                                       CONNECTED
                                                       16119
unix
       3
                           STREAM
                ]
                                                       16263
unix
      3
                           STREAM
                                       CONNECTED
                                                                 /var/run/dbus/system_bus_socket
                ]
                                                       18472
unix
       2
                           DGRAM
unix
      3
                           STREAM
                                       CONNECTED
                                                       16262
                ]
                                                                 /var/run/dbus/system_bus_socket
unix
       3
                           STREAM
                                       CONNECTED
                                                       14803
unix
                           STREAM
                                       CONNECTED
                                                       16259
      3
                ]
unix
       3
                           DGRAM
                                                       25383
unix
      3
                1
                           STREAM
                                       CONNECTED
                                                       17094
unix
                1
                           STREAM
                                       CONNECTED
                                                       17095
      3
                                                                 /var/run/dbus/system_bus_socket
unix
       2
                           DGRAM
                                                       13598
                ]
                                                       19524
unix
       3
                           DGRAM
                                                       14138
unix
       2
                           DGRAM
unix
      3
                1
                           STREAM
                                       CONNECTED
                                                       17439
                                                                 /run/systemd/journal/stdout
unix
      3
                ]
                           STREAM
                                       CONNECTED
                                                       16260
unix
       3
                           STREAM
                                       CONNECTED
                                                       16976
                                                                 /run/systemd/journal/stdout
                j
                                       CONNECTED
unix
                           STREAM
                                                       17438
       3
unix
       2
                           DGRAM
                                                       16241
                j
]
unix
      3
                                       CONNECTED
                                                       16603
                                                                 /run/systemd/journal/stdout
                           STREAM
unix
      2
                           DGRAM
                                                       17816
unix
      3
                1
                           STREAM
                                       CONNECTED
                                                       17206
                                                                 /run/systemd/journal/stdout
                ]
unix
                                                       16975
      3
                           STREAM
                                       CONNECTED
unix
       3
                           STREAM
                                       CONNECTED
                                                       16602
unix
                1
                           DGRAM
                                                       19522
      3
                ]
unix
       2
                           DGRAM
                                                       17105
                ]
unix
       3
                           STREAM
                                       CONNECTED
                                                       17205
unix
                                                                 /var/run/dbus/system_bus_socket
                           STREAM
                                       CONNECTED
                                                       17097
      3
unix
       3
                           STREAM
                                       CONNECTED
                                                       17864
                ]
                                                       14901
unix
       2
                           DGRAM
                ]
unix
       3
                           DGRAM
                                                       14645
unix
      3
                1
                           DGRAM
                                                       14644
unix
                ]
                           STREAM
                                       CONNECTED
                                                       17863
      3
unix
       3
                           DGRAM
                                                       12730
unix
                1
                           DGRAM
                                                       18502
       2
unix
       3
                ]
                           STREAM
                                       CONNECTED
                                                       13292
unix
      2
                1
                           DGRAM
                                                       16110
unix
      3
              E
                           DGRAM
                                                       12729
unix
      3
                           STREAM
                                       CONNECTED
                                                                 /var/run/dbus/system_bus_socket
                                                       17502
```

unix	2	[ ]	DGRAM		17816	
unix	3	į į	STREAM	CONNECTED	17206	/run/systemd/journal/stdout
unix	3	[ ]	STREAM	CONNECTED	16975	
unix	3	[ ]	STREAM	CONNECTED	16602	
unix	3	[ ]	DGRAM		19522	
unix	2	[ ]	DGRAM		17105	
unix	3	[ ]	STREAM	CONNECTED	17205	
unix	3	[ ]	STREAM	CONNECTED	17097	/var/run/dbus/system_bus_socket
unix	3	[ ]	STREAM	CONNECTED	17864	
unix	2	[ ]	DGRAM		14901	
unix	3	[ ]	DGRAM		14645	
unix	3	[ ]	DGRAM		14644	
unix	3	[ ]	STREAM	CONNECTED	17863	
unix	3	[ ]	DGRAM		12730	
unix	2	[ ]	DGRAM		18502	
unix	3	[ ]	STREAM	CONNECTED	13292	
unix	2	[ ]	DGRAM		16110	
unix	3	[ ]	DGRAM		12729	
unix	3	[ ]	STREAM	CONNECTED	17502	/var/run/dbus/system_bus_socket
unix	2	[ ]	DGRAM		18513	
unix	3	[ ]	STREAM	CONNECTED	16353	
unix	2	[ ]	DGRAM		25238	
unix	3	[ ]	STREAM	CONNECTED	16030	
unix	3	[ ]	STREAM	CONNECTED	19526	
unix	3	[ ]	STREAM	CONNECTED	16107	
unix	3	[ ]	STREAM	CONNECTED	16354	/run/systemd/journal/stdout
unix	3	[ ]	STREAM	CONNECTED	16109	/run/systemd/journal/stdout
unix	3	[ ]	DGRAM		19525	
unix	3	[ ]	STREAM	CONNECTED	17501	
unix	3	[ ]	STREAM	CONNECTED	19527	/var/run/dbus/system_bus_socket
unix	3	[ ]	STREAM	CONNECTED	13609	/run/systemd/journal/stdout
unix	3	[ ]	STREAM	CONNECTED	16031	/run/systemd/journal/stdout
unix	3	[ ]	STREAM	CONNECTED	25427	
unix	3	[ ]	STREAM	CONNECTED	15879	
unix	3	[ ]	STREAM	CONNECTED	15880	/run/systemd/journal/stdout
unix	3	[ ]	STREAM	CONNECTED	25428	
unix	3	[ ]	STREAM	CONNECTED	16102	
unix	3	[ ]	STREAM	CONNECTED	17096	
unix	3	[ ] _	STREAM	CONNECTED	16261	/var/run/dbus/system_bus_socket
pablocor@node-1:~\$						

Figure 5:Netstat running on ssh terminal

Figure 6: ping running on ssh terminal