

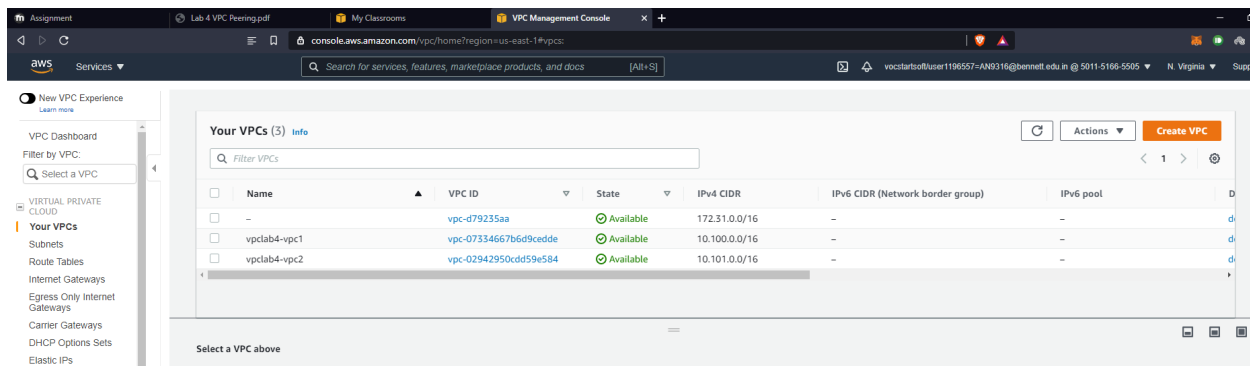
# Cloud Computing – Lab 4

## E18CSE024 – Anudit Nagar

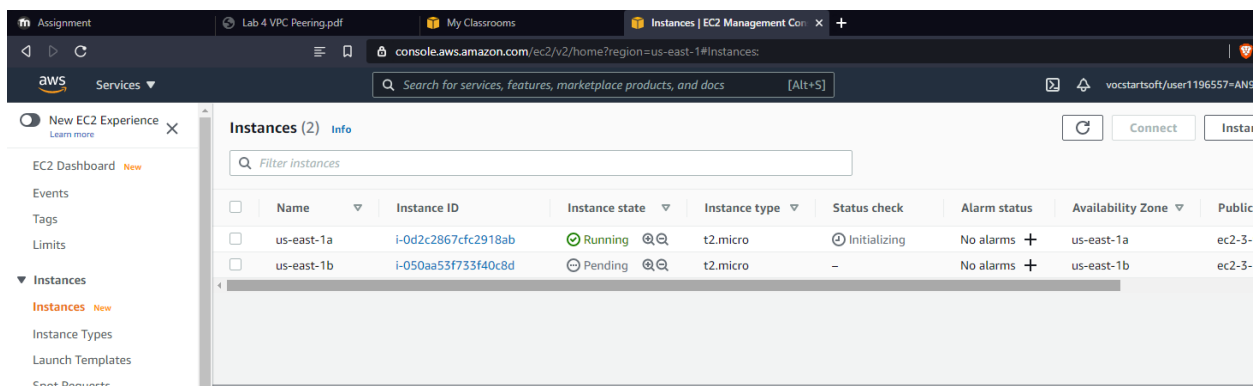
### Peering in different Availability Zone.

### Task 3, 4, 5, 6, 7

Create VPC & Subnet in different region.



Create Instances in different regions.



## Try Pinging before peering. (Should not work)

```
ubuntu@ip-10-100-240-48:~$ login as: ubuntu
* Authenticating with public key "imported-openssh-key" from agent
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-1029-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Thu Feb  4 04:29:12 UTC 2021

System load:  0.03   Processes:    102
Usage of /:   14.0% of 7.69GB   Users logged in:  0
Memory usage: 20%   IPv4 address for eth0: 10.100.240.48
Swap usage:   0%

1 update can be installed immediately.
0 of these updates are security updates.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-10-100-240-48:~$ ping 10.101.71.103
PING 10.101.71.103 (10.101.71.103) 56(84) bytes of data:
^C
--- 10.101.71.103 ping statistics ---
18 packets transmitted, 0 received, 100% packet loss, time 1738ms

ubuntu@ip-10-100-240-48:~$ ping 10.101.71.103
PING 10.101.71.103 (10.101.71.103) 56(84) bytes of data:
^C
--- 10.101.71.103 ping statistics ---
0 packets transmitted, 0 received, 100% packet loss, time 716ms

ubuntu@ip-10-100-240-48:~$
```

```
ubuntu@ip-10-101-71-103:~$ login as: ubuntu
* Authenticating with public key "imported-openssh-key" from agent
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-1029-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Thu Feb  4 04:29:29 UTC 2021

System load:  0.18   Processes:    101
Usage of /:   14.0% of 7.69GB   Users logged in:  0
Memory usage: 20%   IPv4 address for eth0: 10.101.71.103
Swap usage:   0%

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To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-10-101-71-103:~$
```

## Create VPC Peering Connection

The screenshot shows the AWS Management Console interface for creating a VPC peering connection. The left sidebar contains navigation links for various AWS services. The main content area shows the 'Create Peering Connection' page, which includes a table of existing peering connections and a section for the details of the selected connection.

Name	Peering Connection ID	Status	Requester VPC	Accepter VPC	Requester CIDRs	Accepter CIDRs	Requester Owner	Accepter Owner
vpc-lab4	pcx-017183536a7af4a20	Pending Acceptance	vpc-07334667b6d9cedde	vpc-02942950cdd59e584	10.100.0.0/16	-	501151665505	501151665505

**Peering Connection: pcx-017183536a7af4a20**

Description	ClassicLink	DNS	Route Tables	Tags
<p><b>Requester VPC owner</b> 501151665505</p> <p><b>Requester VPC ID</b> vpc-07334667b6d9cedde</p> <p><b>Requester VPC Region</b> N. Virginia (us-east-1)</p> <p><b>Requester VPC CIDRs</b> 10.100.0.0/16</p> <p><b>VPC Peering Connection</b> pcx-017183536a7af4a20</p> <p><b>Expiration time</b> February 11, 2021 at 10:02:27 AM UTC+5:30</p>				
<p><b>Accepter VPC owner</b> 501151665505</p> <p><b>Accepter VPC ID</b> vpc-02942950cdd59e584</p> <p><b>Accepter VPC Region</b> N. Virginia (us-east-1)</p> <p><b>Accepter VPC CIDRs</b> -</p> <p><b>Peering connection status</b> Pending Acceptance by 501151665505</p>				

Ping to instance 2 from instance 1 works now.

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Security

Filter instances

Instance state: running X Clear filters

<input type="checkbox"/>	Name	Instance ID
<input type="checkbox"/>	us-east-1b	i-050aa53f733f40c8d
<input type="checkbox"/>	us-east-1a	i-0d2c2867cfc2918ab

Select an instance above

ubuntu@ip-10-100-240-48: ~

ubuntu@ip-10-100-240-48:~\$ ping 10.100.240.48  
PING 10.100.240.48 (10.100.240.48) 56(84) bytes of data:  
64 bytes from 10.100.240.48: icmp\_seq=1 ttl=64 time=0.020 ms  
64 bytes from 10.100.240.48: icmp\_seq=2 ttl=64 time=0.034 ms  
64 bytes from 10.100.240.48: icmp\_seq=3 ttl=64 time=0.032 ms  
64 bytes from 10.100.240.48: icmp\_seq=4 ttl=64 time=0.033 ms  
64 bytes from 10.100.240.48: icmp\_seq=5 ttl=64 time=0.033 ms  
64 bytes from 10.100.240.48: icmp\_seq=6 ttl=64 time=0.033 ms  
64 bytes from 10.100.240.48: icmp\_seq=7 ttl=64 time=0.033 ms  
64 bytes from 10.100.240.48: icmp\_seq=8 ttl=64 time=0.032 ms  
64 bytes from 10.100.240.48: icmp\_seq=9 ttl=64 time=0.032 ms  
^C  
--- 10.100.240.48 ping statistics ---  
9 packets transmitted, 9 received, 0% packet loss, time 8176ms  
rtt min/avg/max/mdev = 0.020/0.031/0.034/0.004 ms  
ubuntu@ip-10-100-240-48:~\$