

## Seif Eldin Mohamed Aboelhassan Mohamed Hendawy

### Lab 2

1- create your own vpc.

Your VPCs (1/2) <a href="#">Info</a>				
<input type="text" value="Find resources by attribute or tag"/>				
<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR
<input type="checkbox"/>	-	vpc-0652794cb1771b278	Available	172.31.0.0/16
<input checked="" type="checkbox"/>	lab2-VPC	vpc-08e383a42e5cc6a47	Available	10.0.0.0/24

2- create privet subnet and public subnet.

<input type="checkbox"/>	Name	Subnet ID	State	VPC
<input checked="" type="checkbox"/>	Public-Subnet	subnet-0a4d67c66c65ca9c9	Available	vpc-08e383a42e5cc6a47   lab2...
<input type="checkbox"/>	-	subnet-08ed5a3a346fd8057	Available	vpc-0652794cb1771b278
<input type="checkbox"/>	Private-Subnet	subnet-05a00561e88a9a587	Available	vpc-08e383a42e5cc6a47   lab2...
<input type="checkbox"/>	-	subnet-049f6409eb1edbc31	Available	vpc-0652794cb1771b278
<input type="checkbox"/>	-	subnet-08c855736e9fe249a	Available	vpc-0652794cb1771b278

3- create 1 ec2 in privet subnet.

4- create 1 ec2 in public subnet.

Instances (2) <a href="#">Info</a>					
<input type="text" value="Find instance by attribute or tag (case-sensitive)"/>					
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check
<input type="checkbox"/>	Lab2_DevOps_ITI_public	<a href="#">i-Od2b30d87ae003181</a>	Running	t3.micro	2/2 checks passed
<input type="checkbox"/>	Lab2_DevOps_ITI_Private	<a href="#">i-Oe28c6360a9e9b454</a>	Running	t3.micro	2/2 checks passed

5- create internet gw and route table for public subnet.

Internet gateways (2) <a href="#">Info</a>					
<input type="text" value="Filter internet gateways"/>					
<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	labs-igw	igw-05d47a630ddc7a35b	Attached	vpc-08e383a42e5cc6a47   lab2-VPC	355001659877
<input type="checkbox"/>	-	igw-0c8ced4b580cca048	Attached	vpc-0652794cb1771b278	355001659877

  

<input type="checkbox"/>	Name	Route table ID	Subnets	Owner
<input type="checkbox"/>	labs-DevOps-RT	rtb-04b7765efc5f83e47	2 subnets	No
<input type="checkbox"/>	Pr_route_tb	rtb-0cc197ecd8166bb3	-	No

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7- try to ssh inot the privet ec2 from the public ec2.

Instance: i-0e28c6360a9e9b454 (Lab2\_DevOps\_ITI\_Private)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

▼ Instance summary Info

Instance ID i-0e28c6360a9e9b454 (Lab2_DevOps_ITI_Private)	Public IPv4 address -	Private IPv4 addresses 10.0.0.230
IPv6 address -	Instance state Running	Public IPv4 DNS -

```
seif@seif-Alienware-17-R5:~/Downloads$ ssh -i "DO_ITI.pem" ec2-user@16.171.160.93
#_
~\#####_      Amazon Linux 2023
~~~\#####\
~~~\###|
~~~\#/
~~~V~'~>
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Wed Sep  6 10:53:05 2023 from 196.158.128.141
[ec2-user@ip-10-0-0-87 ~]$ vim DO_ITI.pem
[ec2-user@ip-10-0-0-87 ~]$ chmod 400 DO_ITI.pem
[ec2-user@ip-10-0-0-87 ~]$ ssh -i "DO_ITI.pem" ec2-user@10.0.0.230
The authenticity of host '10.0.0.230 (10.0.0.230)' can't be established.
ED25519 key fingerprint is SHA256:7iRHLexhcEZCmHeeUhcQHuoTlDITsSM64BE1l8Sk7rc.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.0.230' (ED25519) to the list of known hosts.
#_
~\#####_      Amazon Linux 2023
~~~\#####\
~~~\###|
~~~\#/
~~~V~'~>
https://aws.amazon.com/linux/amazon-linux-2023
```

8- access google from the privet ec2.

```
seif@seif-Alienware-17-R5:~/Downloads$ ssh -i "DO_ITI.pem" ec2-user@16.171.160.93
#_
~\#####_      Amazon Linux 2023
~~~\#####\
~~~\###|
~~~\#/
~~~V~'~>
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Wed Sep  6 11:29:40 2023 from 196.158.128.141
[ec2-user@ip-10-0-0-87 ~]$ ssh -i "DO_ITI.pem" ec2-user@10.0.0.230
#_
~\#####_      Amazon Linux 2023
~~~\#####\
~~~\###|
~~~\#/
~~~V~'~>
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Wed Sep  6 11:33:26 2023 from 10.0.0.87
[ec2-user@ip-10-0-0-230 ~]$ ping www.google.com
PING www.google.com (142.250.74.68) 56(84) bytes of data:
64 bytes from arn09s23-in-f4.1e100.net (142.250.74.68): icmp_seq=1 ttl=51 time=3.78 ms
64 bytes from arn09s23-in-f4.1e100.net (142.250.74.68): icmp_seq=2 ttl=51 time=3.29 ms
64 bytes from arn09s23-in-f4.1e100.net (142.250.74.68): icmp_seq=3 ttl=51 time=3.26 ms
64 bytes from arn09s23-in-f4.1e100.net (142.250.74.68): icmp_seq=4 ttl=51 time=3.20 ms
64 bytes from arn09s23-in-f4.1e100.net (142.250.74.68): icmp_seq=5 ttl=51 time=3.19 ms
```