U18ISI5006 - Cloud Computing Architecture Linux Instance creation using AWS

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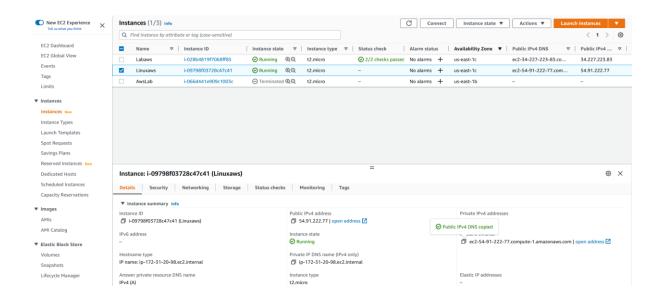
Topic: Linux Instance creation using AWS

Linux instance creation:

1.Connecting the Linux instance through pem key using ssh commands:

ssh command:

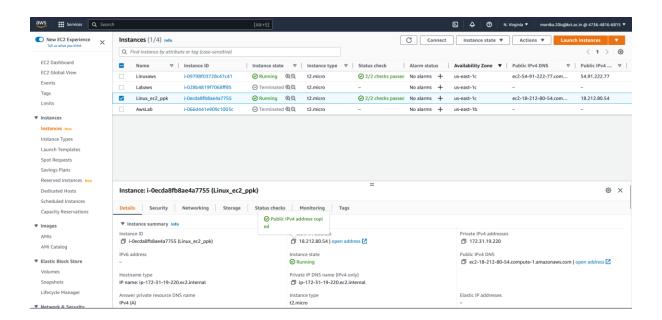
ssh -i [location of pem key] instance_username@instance_dns_address



Linux instance:

2. Connecting Linux instance through ppk key using putty:

[no conversion needed, just use ppk format while creating key]

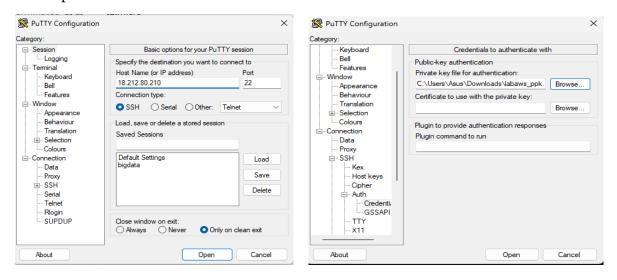


Putty:

Host name = publiv ip address of ec2

Ssh->auth->import ppk key

Press open

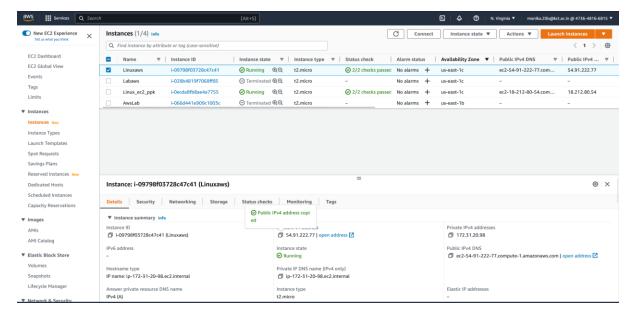


Linux instance:

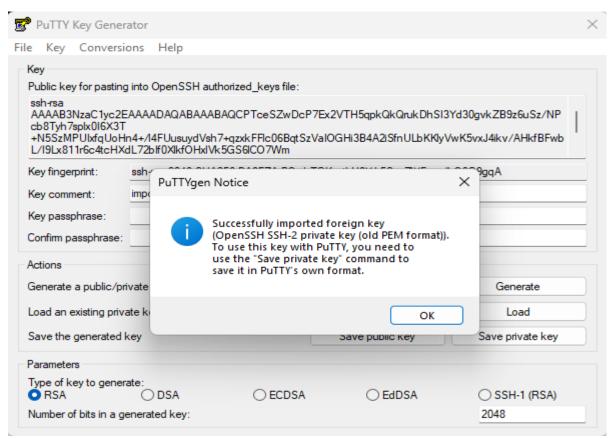
```
Authenticating with public key "linux_ppk"
                        Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
19 package(s) needed for security, out of 31 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-19-220 ~]$ ipconfig
-bash: ipconfig: command not found
[ec2-user@ip-172-31-19-220 ~]$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001
         inet 172.31.19.220 netmask 255.255.240.0 broadcast 172.31.31.255
         inet6 fe80::853:cff:fe5c:c203 prefixlen 64 scopeid 0x20<link>
        ether 0a:53:0c:5c:c2:03 txqueuelen 1000 (Ethernet) RX packets 69968 bytes 110347409 (105.2 MiB)
        RX errors 0 dropped 0 overruns 0 frame 0
TX packets 7471 bytes 473205 (462.1 KiB)
         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 255.0.0.0
         inet6 ::1 prefixlen 128 scopeid 0x10<host>
         loop txqueuelen 1000 (Local Loopback)
         RX packets 48 bytes 3888 (3.7 KiB)
         RX errors 0 dropped 0 overruns 0
         TX packets 48 bytes 3888 (3.7 KiB)
         TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
 [ec2-user@ip-172-31-19-220 ~]$
```

3. Connection through pem key using puttygen and putty:

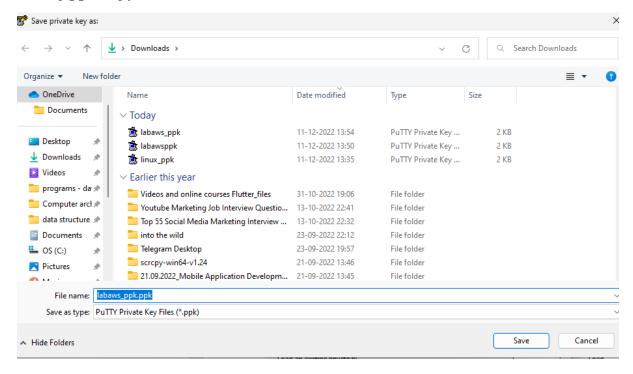
[conversion of pem into ppk using puttygen, then import host name, ppk key in putty (followed in 2^{nd} connection process)]



Pem conversion to ppk using puttygen:



Saving ppk key format:



Linux instance connected:

```
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Sun Dec 11 08:02:02 2022 from 157.51.112.16
             __l_ )
( / Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
19 package(s) needed for security, out of 31 available Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-20-98 ~]$ ls
[ec2-user@ip-172-31-20-98 ~]$ mkdir awslab
[ec2-user@ip-172-31-20-98 ~]$ ls
[ec2-user@ip-172-31-20-98 ~]$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001
inet 172.31.20.98 netmask 255.255.240.0 broadcast 172.31.31.255
         inet6 fe80::8ad:4fff:fede:8c2b prefixlen 64 scopeid 0x20<link>
         ether 0a:ad:4f:de:8c:2b txqueuelen 1000 (Ethernet) RX packets 28502 bytes 108958583 (103.9 MiB)
         RX errors 0 dropped 0 overruns 0 frame 0 TX packets 4470 bytes 341503 (333.4 KiB)
          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 255.0.0.0
         inet6 ::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1000 (Local Loopback)
         RX packets 48 bytes 3888 (3.7 KiB)
          RX errors 0 dropped 0 overruns 0
          TX packets 48 bytes 3888 (3.7 KiB)
          TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
[ec2-user@ip-172-31-20-98 ~]$
```