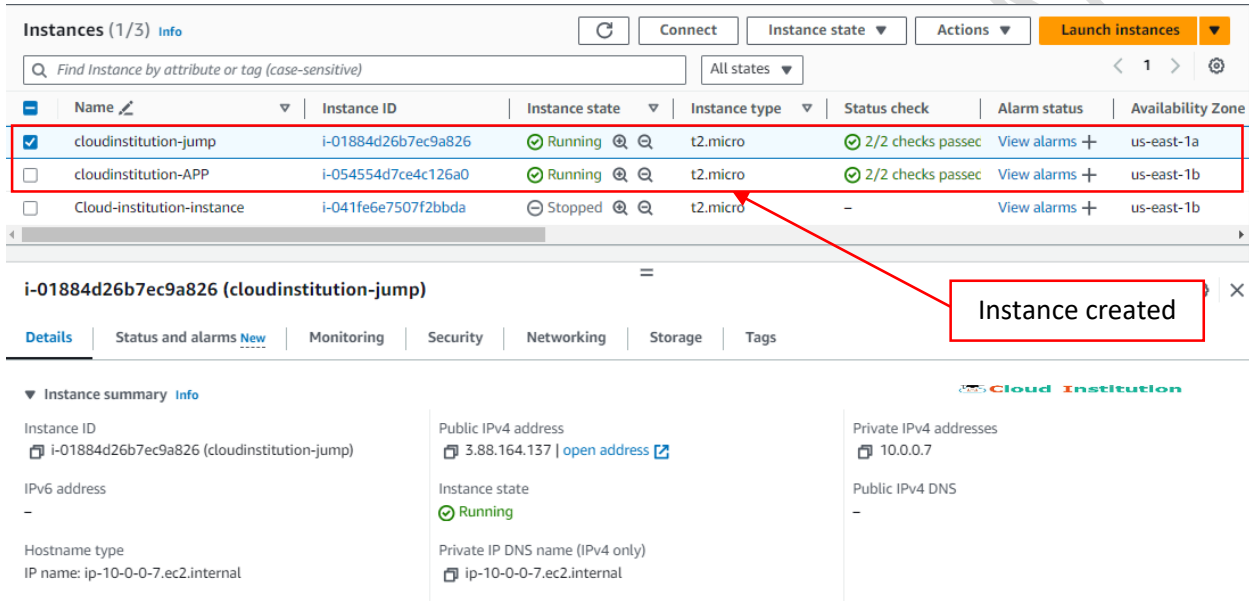


How to login from one EC2 to another EC2

Step 1 : Create two EC2 instances

1.cloudinstitution-jump

2.cloudinstitution-APP



The screenshot shows the AWS Management Console interface. At the top, there's a header with 'Instances (1/3)' and a search bar. Below the header, a table lists three EC2 instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
cloudinstitution-jump	i-01884d26b7ec9a826	Running	t2.micro	2/2 checks passed	View alarms	us-east-1a
cloudinstitution-APP	i-054554d7ce4c126a0	Running	t2.micro	2/2 checks passed	View alarms	us-east-1b
Cloud-institution-instance	i-041fe6e7507f2bbda	Stopped	t2.micro	-	View alarms	us-east-1b

A red box highlights the first two instances. A red arrow points from the 'cloudinstitution-jump' instance to a detail view below. The detail view shows the instance's configuration, including its public IPv4 address (3.88.164.137), private IPv4 address (10.0.0.7), and instance state (Running). A red box labeled 'Instance created' points to the instance ID in the table.

Step 2 : Connect one instance (cloudinstitution-jump) with putty

[illegible][illegible]

Step 3 : Save the private key

pri.pem is the file name where I'm going to save the private key

[illegible]

Step 4 : Open your pem file where you have the private key

NOTE : your pem file will begin with -----BEGIN RSA PRIVATE KEY-----

and end with -----END RSA PRIVATE KEY-----

may-09 - Notepad

File Edit Format View Help

```
-----BEGIN RSA PRIVATE KEY-----
MIIEpQIBAACAQEAjx9KbpnMousJPI8RSJhOn4AhmvtNfbdbdNoL3Mlui9ean3l
J5sI6wXkHkVueEvtY9Q4lWzU5OwuriMQacokavyde3YnykWt9HadG1ZgEXDY3diP
qy9c9gKOf+83h+dS4e86kwxAlhRoIdF+pD3ZtS/c2a1iAr1G4/j3w1EC4yHnYBTE
TYMRUkVqS8sBUKqftc/VCC72TlHmQMdds1CWikyfqDUyL95LN6BImYrPKno03//G
zQTyoMxHKzDOR2mzdbvzL2DhypQidzL0WH+5kj30Y1FivFr+TRzowe2/XD+sKnue
IR5wzBE/06SKN6BM4WA06sLFDVB5w9mID3PRtQIDAQABAoIBAQCe640+AkceU0cw
a8GNTU5hi4vvD4HNNT3AzpK4tM40hAaaIbpfRGD1/OmUsr+P+bEM3QS/RgToyIPL
UTAnTbjp3H/HnH2ugN+pmoaw/xeg0Mz9jAl+mjSwLqTLC+Yaj20JsCo7egGpQf04
5Nwd8kkgdw5hCthVELUrMFP5RQ9Fa14REJw00e/21xMDApCzFc1Zohs1xI+6Zv4
02nnXXYUDWKSmtAuvNv0ASX1k9pboKOWNcowZq6NQGrP4hGhuejTNFGdr3tfkI8w
NwdqHq/ZKpkUtrrM0d6Qqyy1cjAD0TQdd7sjn90H1QW2Mfe05GobwPV6JD8FTWuJ
RrzYwdABAoGBA0B0it18au1jSAI9y/GWMu9WYBLyr2Ck7F5UOrLdfngujS27n2M0
tM0sT3M1zqk6khzzdn6bnok4TGi4+xKBRB5MX/ekmy9h6NHvI405GnR5tknG7h6d
uhLD7FF+PnB70TZ283uQ12ery+5Z+UtVF9HVnKJ0ezFCQ0gm nubgyAZtAoGBAMA5
KtCpiEZjDbs1kQ5L) Cloud Institution vq4diwf+zyBDMdv3mIPB0Q5YV sua6j0
7KNNJd444XqbitVhWimpGjK0mtThN7j0206P4iTJwLxt/5p7N3vVWFhbrCH3/3zm
33bd+rLk1DMA1LYcPw31GoKvLh3B3h2yZIoGHItPaoGBAJanizSI1HwpK0yBuRdkI
ZTt60LwzG2pjKDsZ/FqNSRwUrm5gaFKX3CcbiA0mKp4TrgFzWhZLk1H460oRKPHY
9kTfkBw1GsBNnFXyYqL40Y5xs+y5GqCa+uvKr8bfueLvFBfFWfuJh/JxTNRNH3V
hVMz5QPsYFnRWFerQt5/1iOxAoGAZ8D7urAZB27mF21TS9xLWIxpCXTLMfuSm2Gx
jD/M6yLTgHZ8XpBo0le4WoV+8CVfbnpaJrS75bda+jHFnbzTX1cyNAVCj4z7E+U6
cevLjZuMtpTT1Csq/8uW8aMDT0T1Lpg36g7huo8fVTXE2UQMI9Rpv/uIn16+AlFG
rs2cD6kCgYEAuTzos0L1t7jELjtULCtTyEl82w4n3eHNGI+seP/KLTvdw5rZUmf3
0QHycwrqBjW82k2XHFbyoggn78ootUrvNjQ1MBnz1vachsb2GaUSqq3sr3SMWj7T
XLsggrqW8IkZN9HFZdG81F1tduz/bTjjowcqoXMBTITfbKxwXdBnpTY=
-----END RSA PRIVATE KEY-----
```

Copy the
private key

Step 5 :

Press “i” on the keyboard and then paste

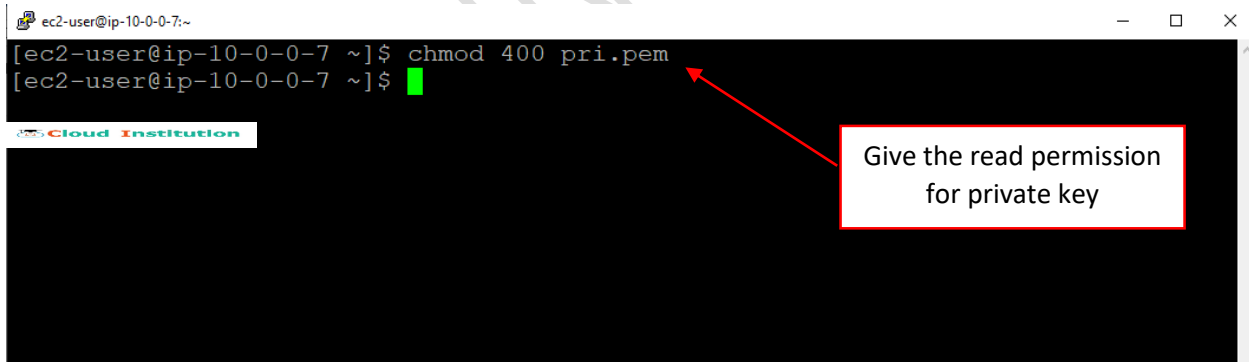


```
ec2-user@ip-10-0-0-7:~  
TYMRUkVqS8sBUKqftc/VCc72TlHmQMdds1CWikyFqDUyL95LN6BImYrPKno03//G  
zQTyoMxHKzDOr2mzdbvzL2DhypQidzL0WH+5kj30Y1F1vFr+TRzowe2/XD+sKnue  
IR5wzBE/06SKN6BM4WA06sLFDVB5w9mID3PRtQIDAQABAoIBAQCe640+AkceU0cw  
a8GNTU5hi4vvD4HNNt3AZpK4tM40hAAaIbpfrGD1/OmUsr+P+bEM3QS/RgToyIPL  
UTAnTbjp3H/HnH2ugN+pmoaw/xeg0Mz9jAl+mjSwLqTLC+Yaj20JsCo7egGpQf04  
5Nwd8kwgdwd5hCthVELUrMFP5RQ9Fa14REJw00e/21xMDApCzFclZohslxI+6Zv4  
O2nnXXYUDWKsMtAuvNv0ASX1k9pboKOWNcowZq6NQGrP4hGhuejTNFGdr3tfkI8w  
NwdqHq/ZKpkUtrrM0d6Qqyy1cjAD0TQdd7sjn90HlQW2MfeO5GobwPV6JD8FIWuJ  
RrzYwdABAoGBAOb0it18auljSAI9y/GWMu9WYBLyR2Ck7F5UOrLdfngujS27n2M0  
tMOSrT3MlZqk6khzzdn6bnok4TGi4+xKBRB5MX/ekmy9h6NHvI4O5GnR5tknG7h6d  
uhLD7FF+PnB70TZ283uQl2ery+5Z+UtVF9HVnKJ0ezFCQ0gmnuBgYAZtAoGBAMa5  
KUPk7aTISUBTWaFE+vc4diwf+zyBDMdv3mIPB0Q5YVsuaj0  
7KNNJd444XqbitVhWimpGjK0mtThN7j02O6P4iTJwLxt/5p7N3vVWFhbrCH3/3zm  
33bd+rLk1DMA1LYcPw31GoKvLh3B3h2yZIoGHItPaoGBAJnizSI1HwpKOyBuRdKI  
ZTt6OLwzG2pjKDsZ/FqNSRwUrm5gaFKX3CcbiA0mKp4TrgFzWhZLk1H460oRKPHy  
9ktfkbW1GsBNnFXyYqL40Y5xs+y5GqCa+uvKr8bfueLvFBfFWfuJh/JxTNRNH3V  
hVMz5QPsYfNRWFerQt5/liOxAoGAZ8D7urAZB27mF21TS9xLWixpCxTLMfuSm2Gx  
jd/M6yLTgHZ8XpBo0le4WoV+8CVfbnpaJrS75bda+jHFnbzTX1cyNAVCj4z7E+U6  
cevLjZuMtpTT/TXE2UQMI9Rpv/uIn16+AlFG  
rs2cd6kCgYEA3eHNGI+seP/KLTvdw5rZUmf3  
0QHycwrqbJw8lvachsb2GaUSqq3sr3SMWj7T  
XLsggrqW8IkZ...ITFbKxwXdBnpTY=  
-----END RSA PRIVATE KEY-----  
:wq
```

Paste the private key

Press “ESC” in keyboard and enter :wq to save and exit


Step 6:



```
ec2-user@ip-10-0-0-7:~  
[ec2-user@ip-10-0-0-7 ~]$ chmod 400 pri.pem  
[ec2-user@ip-10-0-0-7 ~]$
```

Give the read permission for private key

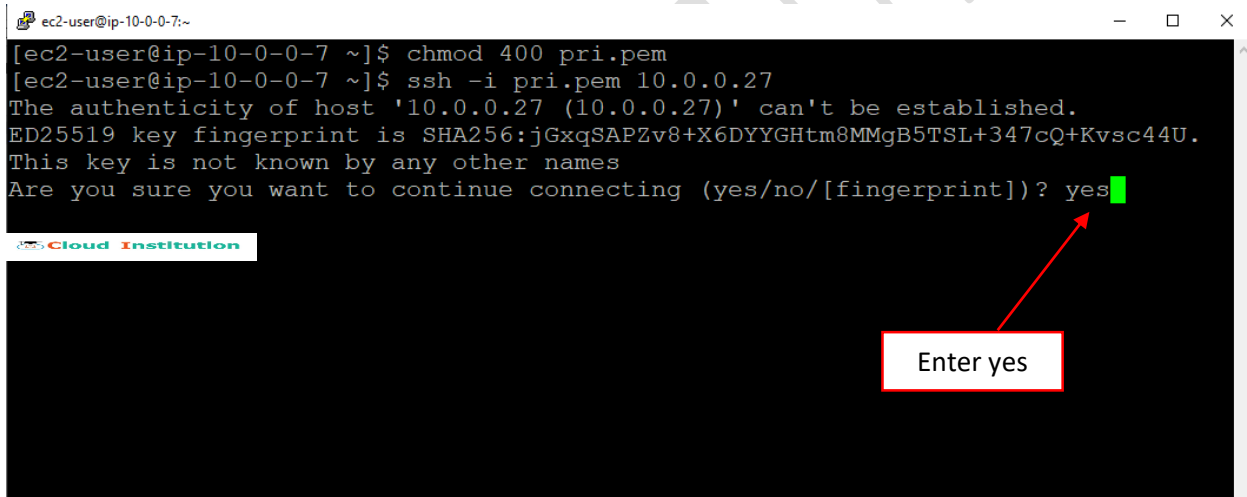
Step 7 : Now connect cloudinstitution-jump with cloudinstitution-APP using ssh



A terminal window showing the execution of two commands. The first command is `chmod 400 pri.pem`. The second command is `ssh -i pri.pem 10.0.0.27`, where the IP address is highlighted with a green cursor. A red arrow points from a text box to the IP address. The text box contains the instruction: "Paste the private IP of cloudinstitution-APP instance". The terminal title bar shows the user is `ec2-user@ip-10-0-0-7`.

```
ec2-user@ip-10-0-0-7:~  
[ec2-user@ip-10-0-0-7 ~]$ chmod 400 pri.pem  
[ec2-user@ip-10-0-0-7 ~]$ ssh -i pri.pem 10.0.0.27
```

Step : 8



A terminal window showing the execution of the same two commands as in Step 7. The second command, `ssh -i pri.pem 10.0.0.27`, has triggered a warning message about the host's authenticity. The terminal displays: "The authenticity of host '10.0.0.27 (10.0.0.27)' can't be established. ED25519 key fingerprint is SHA256:jGxqSAPZv8+X6DYYGHtm8MMgB5TSL+347cQ+Kvsc44U. This key is not known by any other names Are you sure you want to continue connecting (yes/no/[fingerprint])? yes". The word "yes" is highlighted with a green cursor. A red arrow points from a text box to the "yes" input. The text box contains the instruction: "Enter yes". The terminal title bar shows the user is `ec2-user@ip-10-0-0-7`.

```
ec2-user@ip-10-0-0-7:~  
[ec2-user@ip-10-0-0-7 ~]$ chmod 400 pri.pem  
[ec2-user@ip-10-0-0-7 ~]$ ssh -i pri.pem 10.0.0.27  
The authenticity of host '10.0.0.27 (10.0.0.27)' can't be established.  
ED25519 key fingerprint is SHA256:jGxqSAPZv8+X6DYYGHtm8MMgB5TSL+347cQ+Kvsc44U.  
This key is not known by any other names  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

The screenshot shows a terminal window titled "ec2-user@ip-10-0-0-27:~". The user runs the command `ssh -i pri.pem 10.0.0.27`. The terminal displays a warning about the authenticity of host '10.0.0.27' and its ED25519 key fingerprint. The user responds with 'yes'. A warning message states: "Warning: Permanently added '10.0.0.27' (ED25519) to the list of known hosts." Below this, there is ASCII art representing a cat's face, followed by the text "Amazon Linux 2023" and the URL "https://aws.amazon.com/linux/amazon-linux-2023". At the bottom, the prompt changes to `[ec2-user@ip-10-0-0-27 ~]$`, indicating a successful login. A red arrow points from a white box containing the text "Successfully logged into the second instance" to the new prompt.

```

[ec2-user@ip-10-0-0-7 ~]$ chmod 400 pri.pem
[ec2-user@ip-10-0-0-7 ~]$ ssh -i pri.pem 10.0.0.27
The authenticity of host '10.0.0.27 (10.0.0.27)' can't be established.
ED25519 key fingerprint is SHA256:jGxqSAPZv8+X6DYYGHtm8MMgB5TSL+347cQ+Kvsc44U.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.0.27' (ED25519) to the list of known hosts.

      #
     _#_
    ~\   #####          Amazon Linux 2023
   ~~\_  #####\_
   ~~\_  #####|
   ~~\_  \###|
       \#/         https://aws.amazon.com/linux/amazon-linux-2023
        V~' '->
           ^
          / \
         /   \
        / . . \
       /___\___\
      /m/'-'-\

[ec2-user@ip-10-0-0-27 ~]$

```

Successfully logged into the
second instance

```
ec2-user@ip-10-0-0-7:~  
[ec2-user@ip-10-0-0-7 ~]$ chmod 400 pri.pem  
[ec2-user@ip-10-0-0-7 ~]$ ssh -i pri.pem 10.0.0.27  
The authenticity of host '10.0.0.27 (10.0.0.27)' can't be established.  
ED25519 key fingerprint is SHA256:jGxqSAPZv8+X6DYYGHtm8MMgB5TSL+347cQ+Kvsc44U.  
This key is not known by any other names  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '10.0.0.27' (ED25519) to the list of known hosts.  
  
#  
~\#### Amazon Linux 2023  
~~\#####  
~~\###|  
~~\#/  
~~V~'-'>  
~~~  
~~. .  
~~/ /  
~~/m/'-'>  
[ec2-user@ip-10-0-0-27 ~]$ exit  
logout  
Connection to 10.0.0.27 closed.  
[ec2-user@ip-10-0-0-7 ~]$
```