

# Amazon Workflow

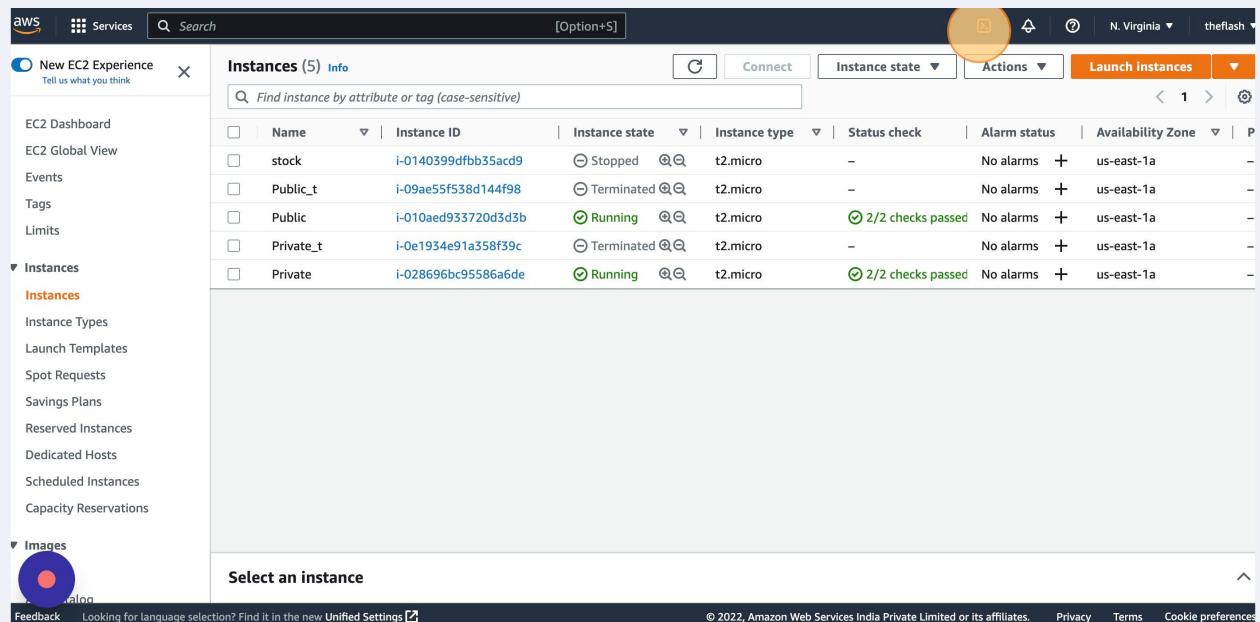
Scribe 

1

Navigate to [us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1](https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1)

2

Click this link.

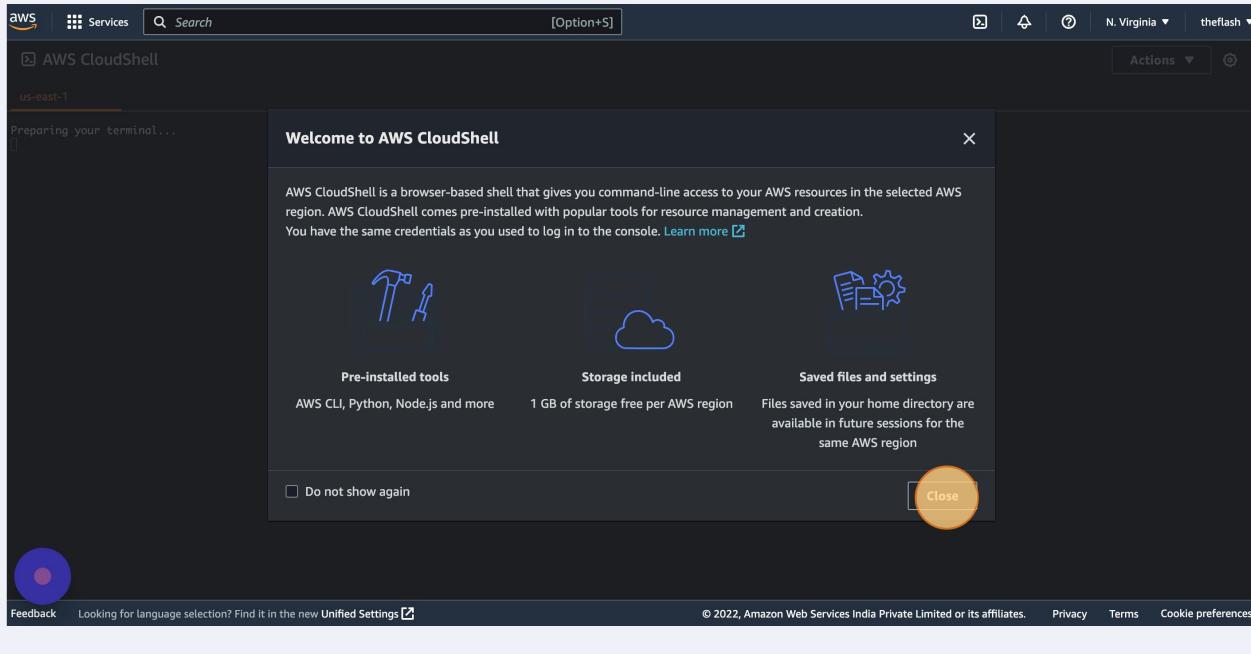


The screenshot shows the AWS EC2 Instances page with five instances listed:

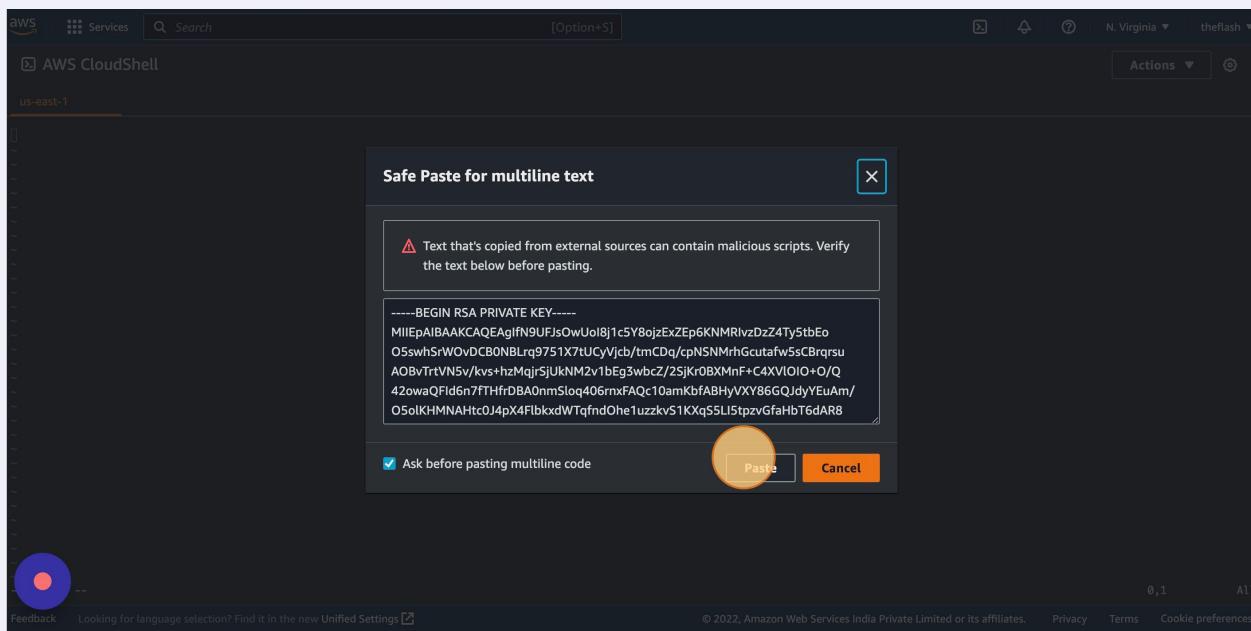
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
stock	i-0140399dfbb35acd9	Stopped	t2.micro	-	No alarms	us-east-1a
Public_t	i-09ae55f538d144f98	Terminated	t2.micro	-	No alarms	us-east-1a
Public	i-010aed933720d3d3b	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
Private_t	i-0e1934e91a358f39c	Terminated	t2.micro	-	No alarms	us-east-1a
Private	i-028696bc95586a6de	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a

Below the table, a modal window titled "Select an instance" is open, showing the same five instances. The "Actions" dropdown menu is highlighted with a yellow circle.

### 3 Click "Close"



### 4 Type command vim filename.pem > press i paste pem contains whatever you downloaded.



**5** Click here.

TE KEY-----  
UFJs0wUoI8j1c5Y8ojzExZEp6KNMRIvzDzZ4Ty5tbEo  
51X7tUcyVjcb/tmCDa/cpNSNMrhGcutafw5sCBrqrsu  
rSjUKNM2v1bEg3wbcZ/2SjKr0BXMnF+C4XVL0IO+0/Q  
nmSloq406rnxFAQc10amKbfABHyVXY86GQJdyYEuAm/  
kxdWTqfnd0he1uzzkvS1KxqS5L15tpzvGfaHbT6dAR8  
lo4Mpetixc5pGq+KQIDAQABAoIBACjQ96rGz0w0TI6g  
F07j0Vjz2XPmIM1STdA3z9gbX148h4w11hckywZIQVn  
W+y1W8FHkvfPUCyBSbvfqRm0ccnWjf9G6qt2p+pF6MD  
ySzn7XjkAxU6+fgP/RneHnibxR9r5rtVptCNwh92JCv  
h6qSv++Ea60SK0+ByDfT35VKHtDyeg0cgcgM6jPiAobF  
UvbR82+BUOS3Ak+yUmA0wdo4zbjp+9nIkNSNWNNmlx/  
HaDHKyvQ9lmjkGBaHqfNIhnabhr5des70z+0J1f9Ej0  
yU+NnT2wlsM6ZP8mAH+YEPEECr9KI7ZlwY6qXGbpwWi  
3r1TEWa9zu15UC9AQWGBNEL0F50WPYBeW0CgYEaonDu  
ydHt1mCrMGyz88tGA6kGoY9oYPVA2pbry3ZkCR2xXpr  
x5J15L4cxkxqGiw0wdggfKsZb0GGyYm8U/Yi nul.809Y  
SHG1D6BKq/7z2D3APi0CgYEAtkh0V0syVWFRUh+wxad0  
XdzG728GRkCpNLq0gT5x9ykrBSSWbXPdPzWBKnzWmoX  
0jNJ6ke0s5TIcwBF281B9N8PnjQk6BUAyp7M6Cy1SH  
e0CgYApSSs7av0FKdDqUg/PC5UzXmZJd6FvTz1BGB7M  
2YLiaQrI0417E3uG/cZUeU7NYDwTYVwfVx3yWQZXLyHT  
qA2mSOB+hUXNUr5eCB57ztzDkWIkdI+cit6XqKtLLGR  
hwIVa8fGoV0bRMLIS/rC5RCAIDE6jA+9+hgtWq5dRKJd  
+6FSWpMabb6M9ymjqemE7uLPbJ+XLh0Ez3VxBa/OefYt  
zitgpSilksxeoRlH913vM4q1RP9I6v2Ig==  
KEY-----[]

**6** Type " [[Escape]] :wq! [[enter]]  
chmod 400 [[filename.pem]] [[enter]]  
ssh -i [[filename.pem]] ec2@<public ec2 ip>"

**7** Switch to tab "Instances | EC2 Management Console"

8 Click this checkbox.

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with a 'New EC2 Experience' toggle and a 'Tell us what you think' link. Below it are links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and Instances. Under Instances, there are links for Instances, Instance Types, Launch Templates, Spot Requests, and Savings Plans. The main area is titled 'Instances (5) Info' with a search bar. A table lists five instances: 'stock' (Stopped), 'Public\_t' (Terminated), 'Public' (Running), 'Private\_t' (Terminated), and 'Private' (Running). The checkbox next to 'Public' is highlighted with an orange circle.

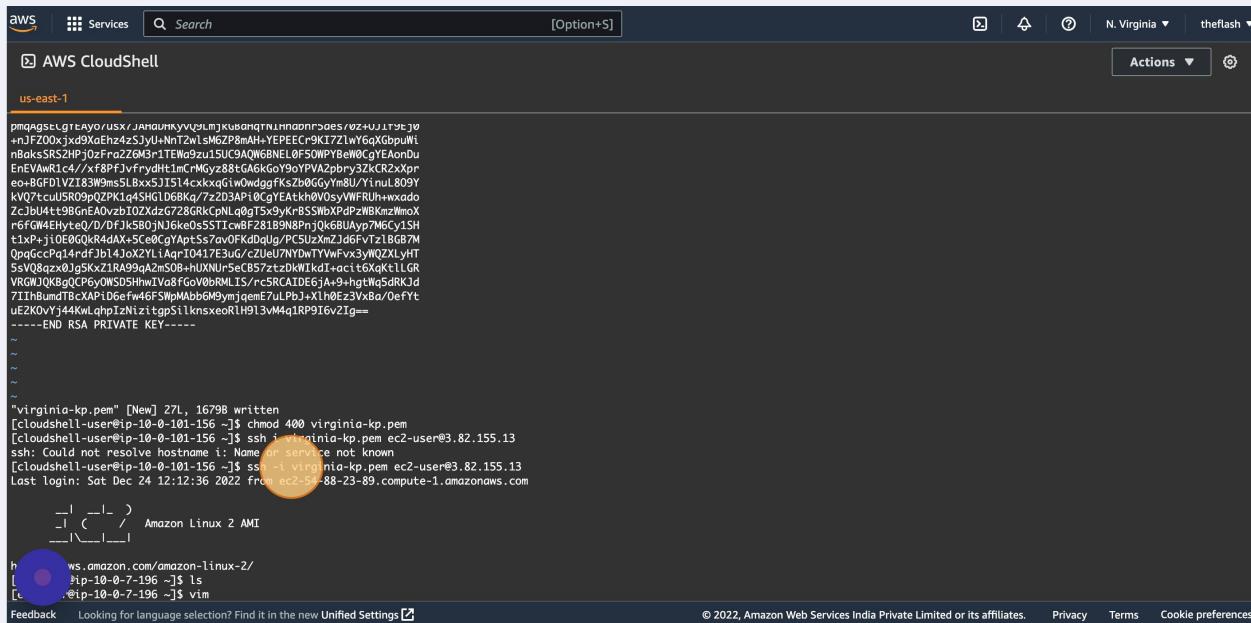
	Name	Instance ID	Instance state	Instance type
<input type="checkbox"/>	stock	i-0140399dfbb35acd9	Stopped	t2.micro
<input type="checkbox"/>	Public_t	i-09ae55f538d144f98	Terminated	t2.micro
<input checked="" type="checkbox"/>	Public	i-010aed933720d3d3b	Running	t2.micro
<input type="checkbox"/>	Private_t	i-0e1934e91a358f39c	Terminated	t2.micro
<input type="checkbox"/>	Private	i-028696bc95586a6de	Running	t2.micro

9 Click here.

The screenshot shows the AWS EC2 Instances page with the 'Public' instance selected. The top navigation bar includes 'Services', 'Search', and 'Option+S'. The main area is titled 'Instances (1/5) Info' with a search bar and various filters. The table shows the 'Public' instance is running. The 'Actions' dropdown is open, showing options like 'Launch instances'. Below the table, a detailed view for the 'Public' instance is shown. The 'Details' tab is selected, displaying sections for Instance summary, Security, Networking, Storage, Status checks, Monitoring, and Tags. In the 'Instance summary' section, the 'IPv4 address' field (3.82.155.13) is highlighted with an orange circle.

## 10 Same process you need to follow in public ec2 machine after logged in.

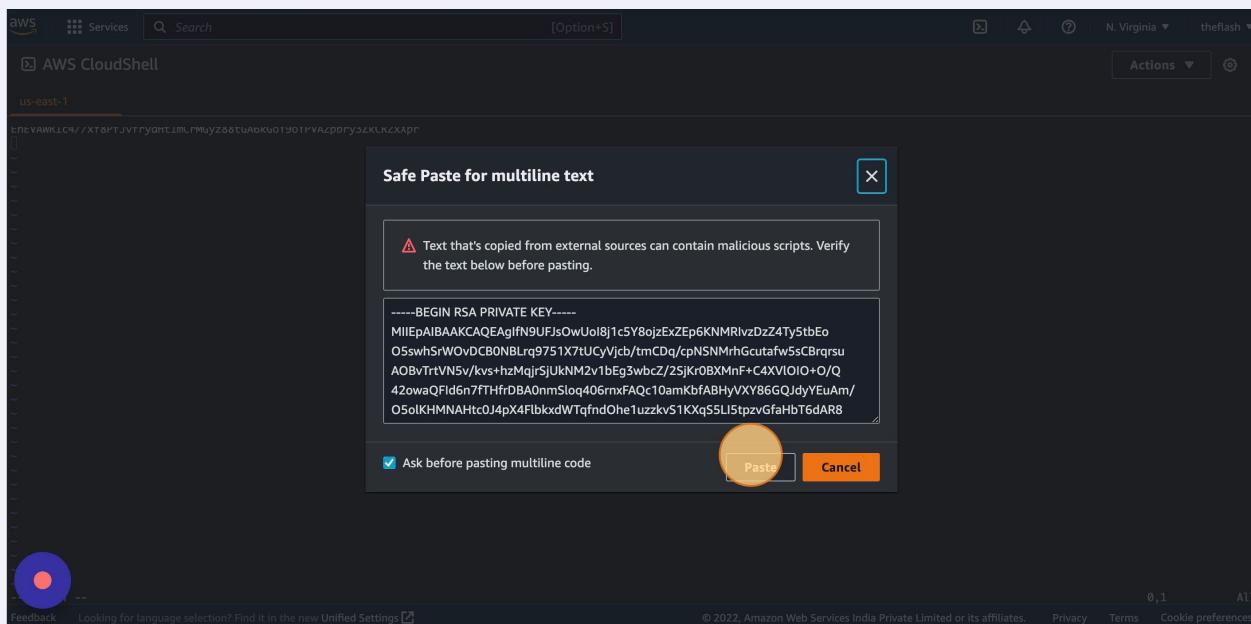
### 11 Click here.



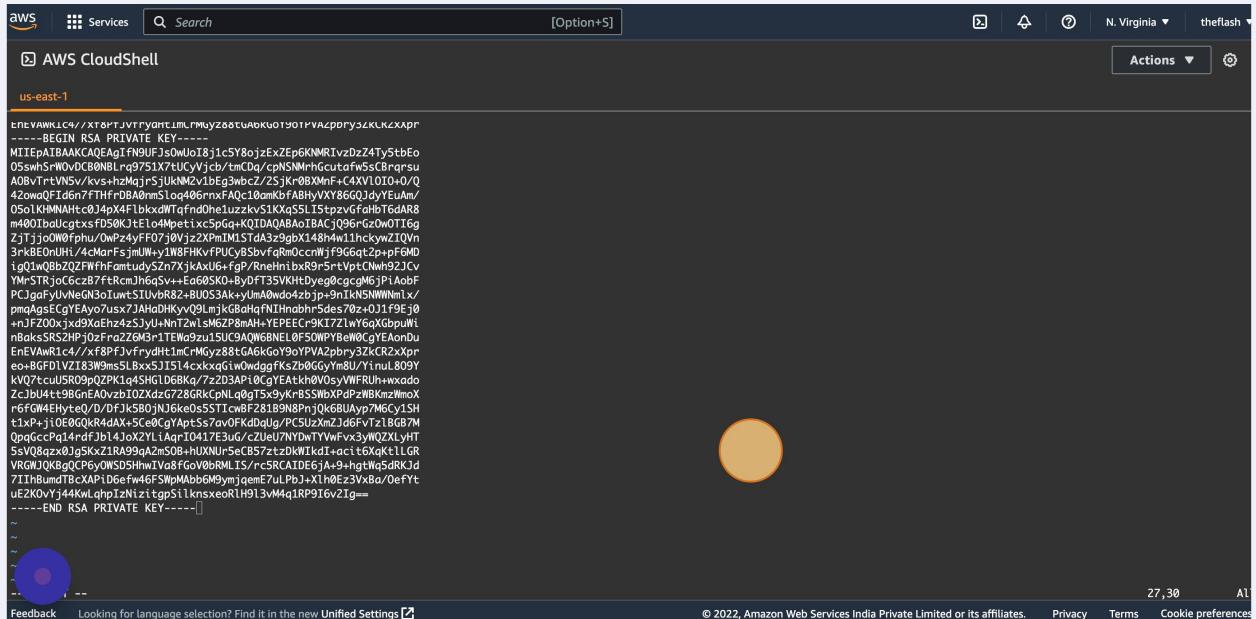
```
aws Services Search [Option+S] Actions N. Virginia theflash
us-east-1

-----BEGIN RSA PRIVATE KEY-----
MIIEpaIBAAKCAQEAigfN9UFJsOwUoI8jtcSY8ojzExZEpc6KNMRvzDz4Ty5tbEo
OSswhSrWovdCB0NBNr9751X7tUcvYcb/trnCd/cpNSNrhGcutfv5scBrqrssu
AOBvTrtVN5v/kvs+hzMqjSjUkNM2v1bEg3wbcZ/2SJkr0BXMnf+C4XVlOIO+O/Q
42owaQFid6n7fTfHfdBA0nmSloq406rmxfAQC10amKbfABHyXY86GGQ/dyYeUa/m/
O5oLKHMAHtc0J4px4FlbxdWTqndOhe1uzzkvS1KXqS5L5tpzvGfaHbT6dAR8
-----END RSA PRIVATE KEY-----
-
-
-
-
-
"virginia-kp.pem" [New] 27L, 16798 written
[cloudshell-user@ip-10-0-101-156 ~]$ chmod 400 virginia-kp.pem
[cloudshell-user@ip-10-0-101-156 ~]$ ssh i.virginia-kp.pem ec2-user@3.82.155.13
ssh: Could not resolve hostname i: Name or service not known
[cloudshell-user@ip-10-0-101-156 ~]$ ssh -i virginia-kp.pem ec2-user@3.82.155.13
Last login: Sat Dec 24 12:12:36 2022 from ec2-54-88-23-89.compute-1.amazonaws.com
[ 1 | --| - ) Amazon Linux 2 AMI
[ 1 | --| - )
[ 1 | --| - )
[ 1 | --| - )
[ 1 | --| - )
ws.amazon.com/amazon-linux-2/
[ 1 | --| - ) ip-10-0-7-196 ~]$ ls
[ 1 | --| - ) ip-10-0-7-196 ~]$ vim
Feedback Looking for language selection? Find it in the new Unified Settings [ ]
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```

### 12 Click "Paste"



**13** Click here.



The screenshot shows the AWS CloudShell interface. At the top, there are tabs for Services and AWS CloudShell, with a search bar and an option to switch regions. Below the tabs, the AWS logo is visible. The main area contains a large amount of text representing an RSA PRIVATE KEY. The text is a single, continuous string of characters, starting with '-----BEGIN RSA PRIVATE KEY-----' and ending with '-----END RSA PRIVATE KEY-----'. The text is mostly illegible due to its length and complexity. At the bottom of the screen, there is a feedback link, a language selection dropdown, and a footer with copyright information and links to privacy, terms, and cookie preferences.

```
t=VAWKLc9//xt0rJvTrTyuhtJmlrmgyza&tuaBkgtY9otPvaZpDy3zKlkzXapf
-----BEGIN RSA PRIVATE KEY-----
MIIEpTAIBAAKCAQEAq1FN0UFjs0wUoI8j1cSY8ojzExZEp6KNMRTvzDzZ4Ty5tbEo
0SswhSrNv0DCB0BNLrq9751x7tUvCyVjb/tmCdq/cpNSMrhgcutafWssCBrqrssu
AOBvTrtVNsV+kvs+hzlqgrSiUnM2v2bEg3wbCZ/2Sjk+0BXuHf+c4XV10IO+0/0
4zwadOFdgn7FTHrdbADwSl0q406rxFA0c10mKfABHlyXY86GQJdyYEuAm/
Os0lKHMNAItc034px4TfbxwdWtqfn0Dhuzkzv51Kq5SL1StpzvzfGaHbTgdR8
m40010balUcqtxsfD50K0tfl04mpeiticx5pG+K0IDAOBAo18ACj096rGz0WOT16g
Zjtjjo0W0phu/0wPz4yF073y0jz2XpmIM1STd3z3q9X148h4w11hckywzI0Vn
3rkBEOnUhJ/4cmorFsjmJU+y1WBFFhvTPUvC8SbvFqRmOccnWj9G6t2p+pF6MD
ig01w0B9z0ZFWfHfamudty5zn7xjAxU6-fgP.Rnehnibx9r5r+vtptCnw923Cv
YMrSTRj0Gc2z87ftRcmJh6Sw++Eo60SK0-BvYft35VKHtDye0ggcg9hPiAoBf
PCJqafVjvNeN30jLwvSTUvB82-BU053Ak-yluM0wdozbjp;91KnSNWWNmlx/
pmqAgseCg[Eayo7usx7JAh0DHKyvQ9LmjkgB0hjqfNTInhbnr5des70z+o119Ej0
+nJFZ00+jxd9XaEh24z5lyJ+n12wlsM6zP8mAH-YEPPECr-9K17Z1wYGoGbpuWi
rbaksSRz2IPj02Fr0zZM3-17EW9zu15IC9A06BNEL0f50WPYBeW0cg)YeonDu
EnEVaWrC4//x8Pf1yfrydlt1mCrMgvz8t:GA6kGo9yYPVA2pbyr3ZkCr2xxpr
eo+BGFDtVZI83W9m51Bxs5J1514cxkxqgiw0wdgpfkszBbGGyyt8U/Yinu.809y
kVQ7tculJSR09p0ZPz4SHG1D6Bkq/72D23Ap10cyEAtkh9vOsuyWFRUhwxado
Zc1bl4t+9BGnEA0vzbTOZxzd72z8RkRpjh@0t5x9kYkBSWbxPdPzNBkmzWmoX
r6FGW4Hy-e0/D/Df1k80jN76ke0s5STTcwRF28189NPnjoK6RIuay7M6Gv1SH
t1xP+j10E9QkR4dAX-5ce0CgYaptSs7avOfKd0qJp/PC5UzXmz1Jd6fV71BGB7M
QpqGcp014rfb14jox2YLiAqr1O417E3u/CzUel7NyDwTVwFv3xW0ZLyHT
SsV08qzv01g5xZ1RA99qA2mS08-hJXNUr5eC857ztz0WKtd1+actt6xKt11GR
VRGwJQK9gOCP6y0WSDHhw1Vd8FGoV08RMLTS/rCSRAIDE6A+9+hgtW5dRKJd
7IThbUmJtTcXAP1d6eFw46FSpMAbb6bM9mjqem7ulPbj-X1h0Ez3Vx8a/0efYt
uE2KOYj44kwLchpIzNi2tgpSlknxeoR1h913vM4q1RP916v2Ig==
-----END RSA PRIVATE KEY-----
```

**14** Type " [[Escape]] :wq! [[enter]] chmod 400 vi [[tab]] [[enter]] ls [[enter]] ssh -i vi [[tab]]"

## 15 Click this checkbox.

Instances (5) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
stock	i-0140399dfbb35acd9	Stopped	t2.micro	-	No alarms	us-east-1a
Public_t	i-09ae55f538d144f98	Terminated	t2.micro	-	No alarms	us-east-1a
Public	i-010aed933720d3d3b	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
Private_t	i-0e1934e91a358f39c	Terminated	t2.micro	-	No alarms	us-east-1a
Private	i-028696bc95586a6de	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a

Select an instance

## 16 Click here.

Instances (1/5) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
stock	i-0140399dfbb35acd9	Stopped	t2.micro	-	No alarms	us-east-1a
Public_t	i-09ae55f538d144f98	Terminated	t2.micro	-	No alarms	us-east-1a
Public	i-010aed933720d3d3b	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
Private_t	i-0e1934e91a358f39c	Terminated	t2.micro	-	No alarms	us-east-1a
Private	i-028696bc95586a6de	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a

Instance: i-028696bc95586a6de (Private)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID i-028696bc95586a6de (Private)	Public IPv4 address -	Private IPv4 addresses 10.0.46.61
IPv6 address -	Instance state Running	Public IPv4 DNS -
Hostname type IP name: ip-10-0-46-61.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-46-61.ec2.internal	

17

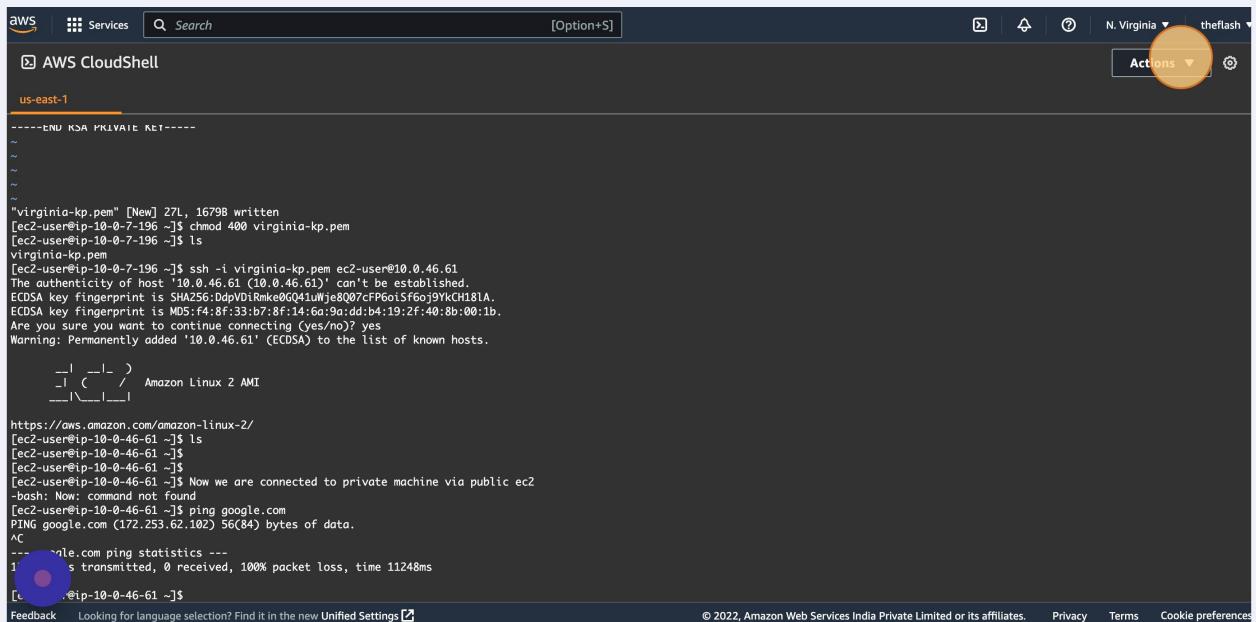
Type "ssh -i [[filename.pem]] ec2@<public ec2 ip>".

Now we are connected to private machine via public ec2.

ping google.com. It will not connect because we did not attach IGW to RT of private subnet.

18

Click here.



```
"virma-kp.pem" [New] 27L, 1679B written
[ec2-user@ip-10-0-7-196 ~]$ chmod 400 virmania-kp.pem
[ec2-user@ip-10-0-7-196 ~]$ ls
virmania-kp.pem
[ec2-user@ip-10-0-7-196 ~]$ ssh -i virmania-kp.pem ec2-user@10.0.46.61
The authenticity of host '10.0.46.61 (10.0.46.61)' can't be established.
EDSA key fingerprint is SHA256:DdpDiRmke0G041UWje8007CFP6c1sf6ojjYkKH18lA.
EDSA key fingerprint is MD5:f4:8f:33:b7:8f:14:6a:9a:dd:b4:19:2f:40:8b:00:1b.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.0.46.61' (EDDSA) to the list of known hosts.

              _ _ _ _ _ ) 
              _ | C_ /   Amazon Linux 2 AMI
              _| \_\_\_\_|
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-46-61 ~]$ ls
[ec2-user@ip-10-0-46-61 ~]$ 
[ec2-user@ip-10-0-46-61 ~]$ Now we are connected to private machine via public ec2
-bash: Now: command not found
[ec2-user@ip-10-0-46-61 ~]$ ping google.com
PING google.com (172.253.62.102) 56(84) bytes of data.
^C
--- ~le.com ping statistics ---
1          s transmitted, 0 received, 100% packet loss, time 11248ms
[ec2-user@ip-10-0-46-61 ~]$
```

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## 19 Click "New tab"

The screenshot shows the AWS CloudShell interface. In the top right corner, there is a context menu titled 'Actions'. The 'New tab' option is highlighted with a yellow circle. The terminal window displays a session on 'us-east-1' with various commands run, including SSH key generation and a ping to Google.

## 20 Click here.

The screenshot shows the AWS EC2 Instances page. On the left, there is a sidebar with navigation links like 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', 'Instances', 'Images', and 'Logs'. The 'Instances' section is expanded, showing sub-links for 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Scheduled Instances', and 'Capacity Reservations'. The main area shows a table of instances. One instance, 'Public' (ID: i-010aed933720d3d3b), is selected and highlighted with a yellow circle. The 'Details' tab is active in the instance details panel at the bottom.

## 21 Type "ssh -i [[filename.pem]] ec2-user@<public ip ec2>"

**22** Type "ping google.ocm [[enter]]".

**23** Click here.

```
_|_ C_ / Amazon Linux 2 AMI
___|\_\_|\__|_|
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-7-196 ~]$ this is public ec2
-bash: this: command not found
[ec2-user@ip-10-0-7-196 ~]$ ping google.ocm
ping: google.ocm: Name or service not known
[ec2-user@ip-10-0-7-196 ~]$ ping google.com
PING google.com (172.253.122.100) 56(84) bytes of data.
(  ||  ) From bh-in-f100.1e100.net (172.253.122.100): icmp_seq=1 ttl=97 time=1.69 ms
(  ||  ) From bh-in-f100.1e100.net (172.253.122.100): icmp_seq=2 ttl=97 time=1.84 ms
(  ||  ) From bh-in-f100.1e100.net (172.253.122.100): icmp_seq=3 ttl=97 time=1.75 ms
(  ||  ) From bh-in-f100.1e100.net (172.253.122.100): icmp_seq=4 ttl=97 time=1.76 ms
(  ||  ) From bh-in-f100.1e100.net (172.253.122.100): icmp_seq=5 ttl=97 time=1.73 ms
(  ||  ) From bh-in-f100.1e100.net (172.253.122.100): icmp_seq=6 ttl=97 time=1.73 ms
(  ||  ) From bh-in-f100.1e100.net (172.253.122.100): icmp_seq=7 ttl=97 time=1.71 ms
(  ||  ) From bh-in-f100.1e100.net (172.253.122.100): icmp_seq=8 ttl=97 time=1.75 ms
(  ||  ) From bh-in-f100.1e100.net (172.253.122.100): icmp_seq=9 ttl=97 time=1.74 ms
(  ||  ) From bh-in-f100.1e100.net (172.253.122.100): icmp_seq=10 ttl=97 time=1.75 ms
/
(  ✓  ) ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9017ms
rtt min/avg/max/mdev = 1.695/1.750/1.845/0.041 ms
[ec2-user@ip-10-0-7-196 ~]$
```

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