

Kali Linux in the cloud

AWS



AWS provides a free tier where you can keep a virtual machine in the cloud for 12 months for totally free.

It does require your credit card details for verification but the service is totally free

Having a Kali in the cloud is beneficial as you can perform your attacks from a remote location without providing your actual location



1

- Launch an EC2 Instance with Kali

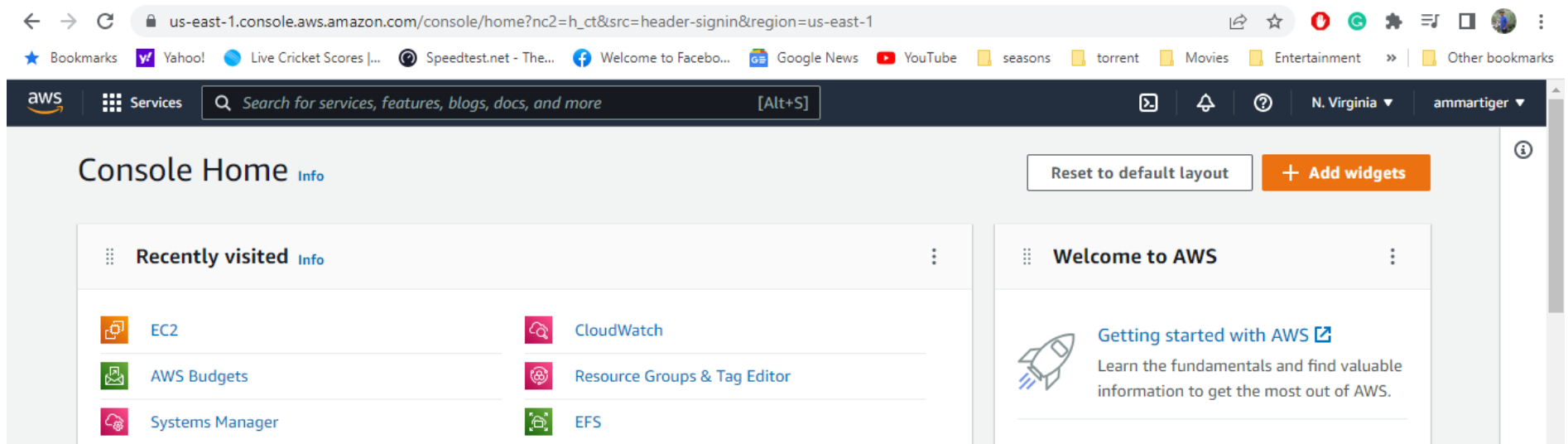
2

- Install GUI on Kali EC2

Step-1

❖ Launch an EC2 Instance

<https://aws.amazon.com/>



The screenshot shows the AWS Management Console home page. The browser address bar displays the URL: `us-east-1.console.aws.amazon.com/console/home?nc2=h_ct&src=header-signin®ion=us-east-1`. The page header includes the AWS logo, a search bar with the text "Search for services, features, blogs, docs, and more" and "[Alt+S]", and the region "N. Virginia" and user "ammartiger". The main content area is titled "Console Home" and features a "Reset to default layout" button and an "Add widgets" button. Below the header, there are two main sections: "Recently visited" and "Welcome to AWS". The "Recently visited" section lists several services: EC2, AWS Budgets, Systems Manager, CloudWatch, Resource Groups & Tag Editor, and EFS. The "Welcome to AWS" section includes a rocket icon and a link to "Getting started with AWS" with the text "Learn the fundamentals and find valuable information to get the most out of AWS."

Step- 2

❖ SSH to your Kali instance

```
ssh -i "kali2.pem" kali@34.219.54.138
```

```
kali@kali: ~
PS C:\Users\Ammar\Desktop\Trash\Kali Cloud> ssh -i kali.pem kali@34.219.54.138
The authenticity of host '34.219.54.138 (34.219.54.138)' can't be established.
ECDSA key fingerprint is SHA256:nixcOt0/ZTVeFjC4/3dbByvBN1OpCRxjZs13efmk6cc.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '34.219.54.138' (ECDSA) to the list of known hosts.
Linux kali 5.18.0-kali5-cloud-amd64 #1 SMP PREEMPT_DYNAMIC Debian 5.18.5-1kali6 (2022-07-07) x86_64

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

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
[] (Message from Kali developers)
[]
[] This is a cloud installation of Kali Linux. Learn more about
[] the specificities of the various cloud images:
[] https://www.kali.org/docs/troubleshooting/common-cloud-setup/
[]
[] (Run: "touch ~/.hushlogin" to hide this message)
└─(kali@kali)-[~]
```

Step- 2

❖ Install the desktop Environment and tightVNC server

- ✓ `sudo apt-get install xfce4 xfce4-goodies tightvncserver`
- ✓ `sudo apt-get install gnome-core kali-defaults kali-root-login desktop-base`

```
(kali: kali)~  
└─$ sudo apt-get install gnome-core kali-defaults kali-root-login desktop-base_
```

Step- 3

- ❖ Setup the tightvnc server geometry

```
tightvncserver -geometry 1024x768
```

```
kali@kali: ~  
└─(kali@kali)-[~]  
└─$ tightvncserver -geometry 1024x768  
You will require a password to access your desktops.  
Password:  
Verify:  
Would you like to enter a view-only password (y/n)? n  
xauth:  file /home/kali/.Xauthority does not exist  
  
New 'X' desktop is kali:1  
  
Creating default startup script /home/kali/.vnc/xstartup  
Starting applications specified in /home/kali/.vnc/xstartup  
Log file is /home/kali/.vnc/kali:1.log
```

Step- 4

- ❖ Check whether tightvnc is running

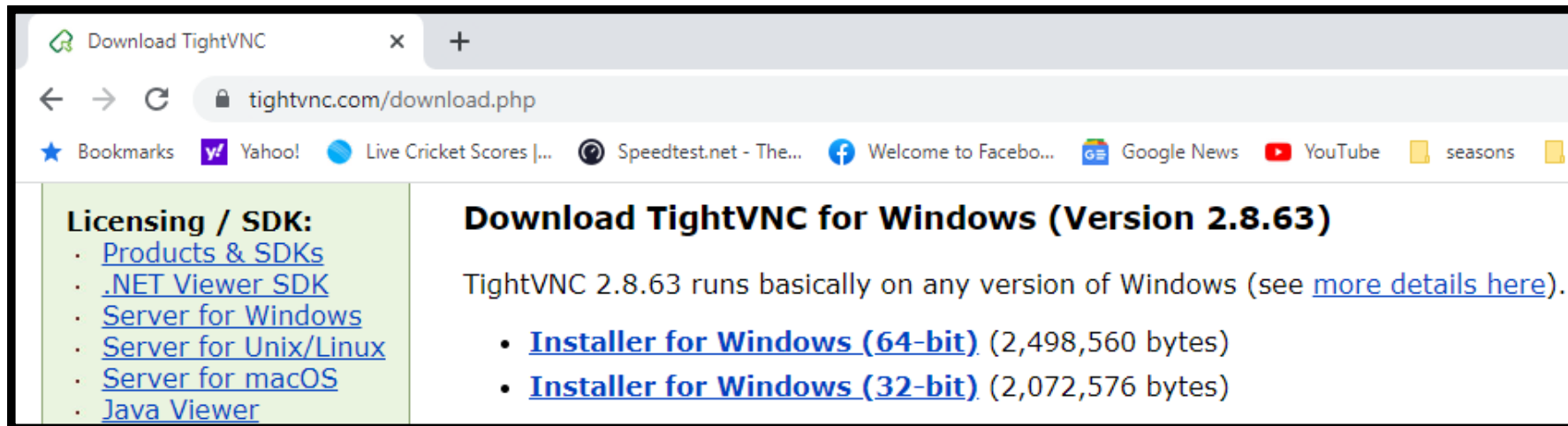
```
netstat -tulpn
```

```
(kali: kali)-[~]
└─$ netstat -tulpn
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:22               0.0.0.0:*                LISTEN      -
tcp        0      0 0.0.0.0:6001            0.0.0.0:*                LISTEN      22672/Xtightvnc
tcp        0      0 0.0.0.0:5901            0.0.0.0:*                LISTEN      22672/Xtightvnc
tcp6       0      0 :::22                   :::*                    LISTEN      -
udp        0      0 0.0.0.0:68             0.0.0.0:*                -          -
udp6       0      0 fe80::c2:8eff:fe6a::546 :::*                    -          -
```


Step- 5

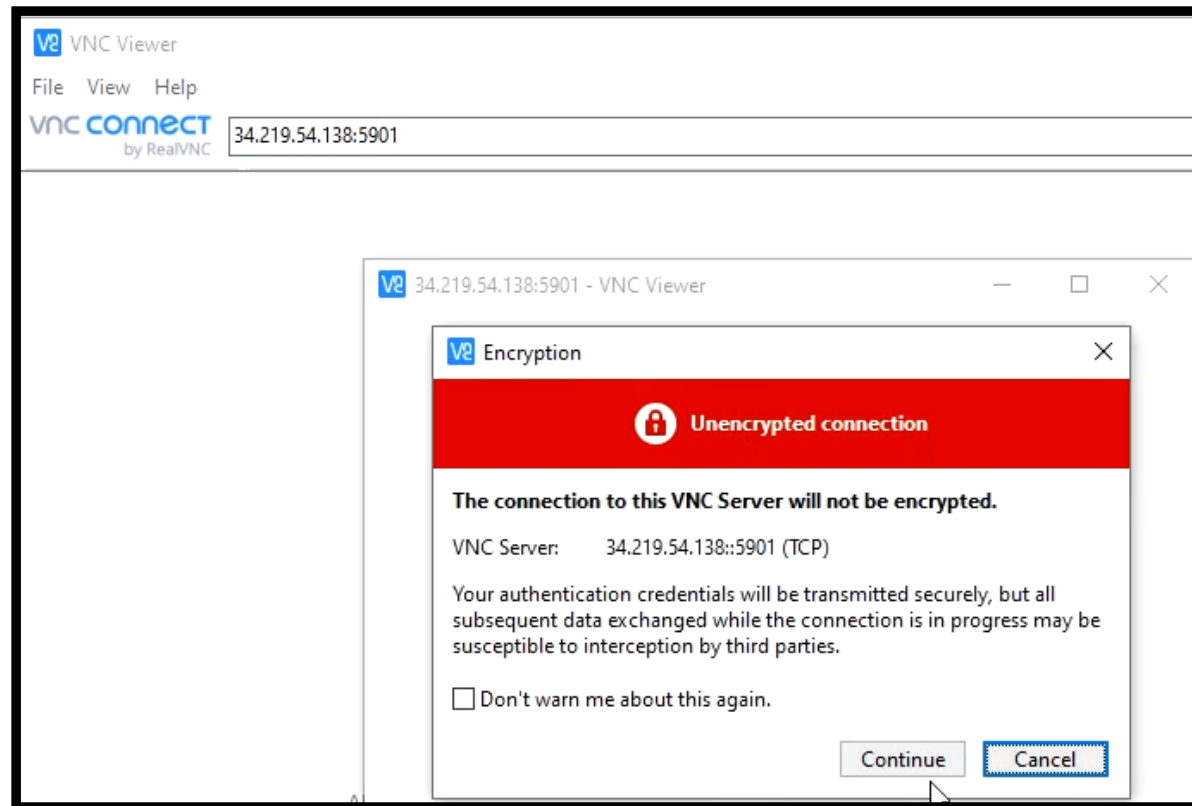
- ❖ Download tight VNC client for windows

<https://www.tightvnc.com/download.php>



Step- 6

- ❖ Open VNC client, Provide your Kali IP and Port and connect to it





DEMO

A large, minimalist landscape photograph of a body of water with mountains in the distance and a small structure on the right. The word "THANKS" is overlaid in the center.

THANKS