

AWS + Windows + Power BI Setup Guide

v1.0.0



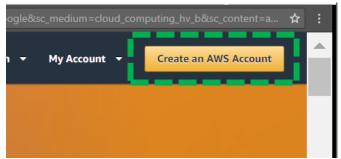
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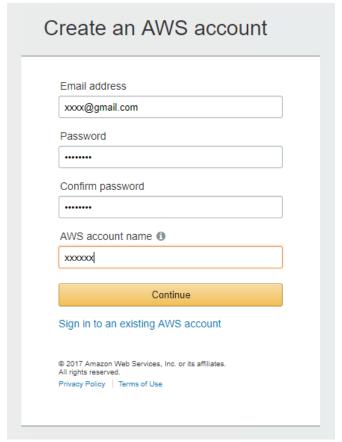


1. Create an AWS Account

- 1.1. Go to AWS website: https://aws.amazon.com/
- 1.2. Click Create an AWD Account in the upper right-hand corner

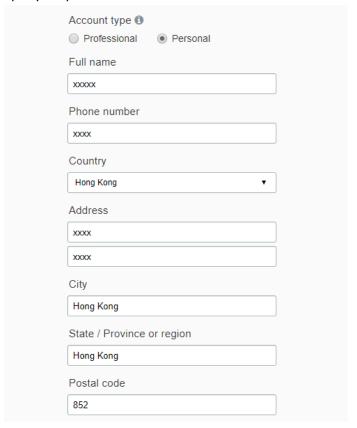


1.3. Input Email, Password, AWS account name → Click **Continue**

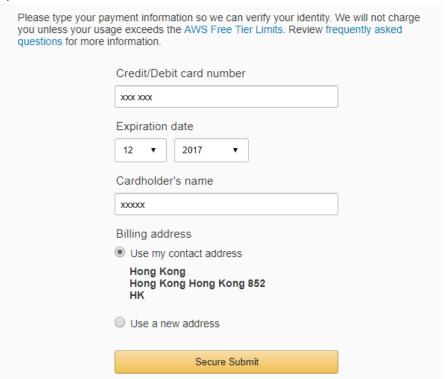




1.4. Input your personal information

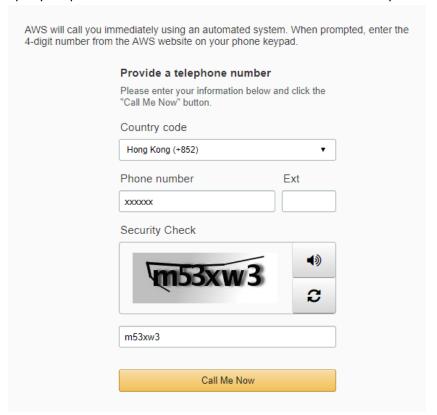


1.5. Input Credit Card details → Click Secure Submit

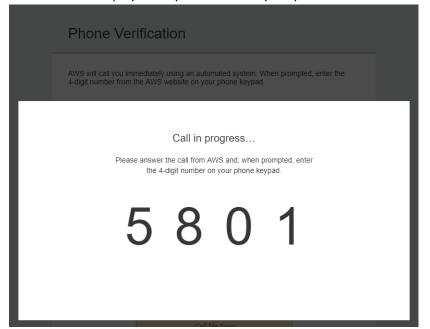




1.6. Input your phone number \rightarrow Click **Call Me Now** \rightarrow AWS will call you

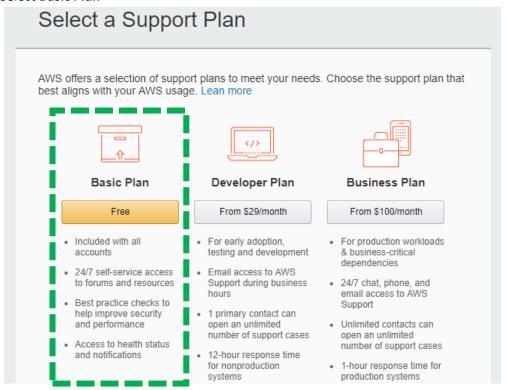


1.7. Enter the PINS displayed on your screen to your phone

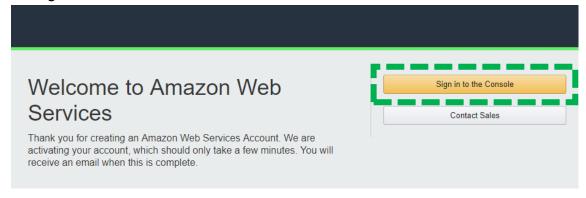




1.8. Select Basic Plan



1.9. Click Sign in to the Console

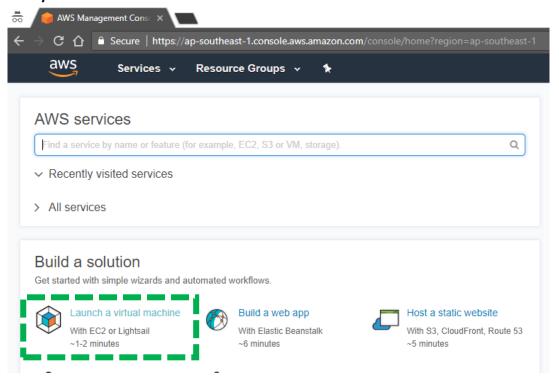




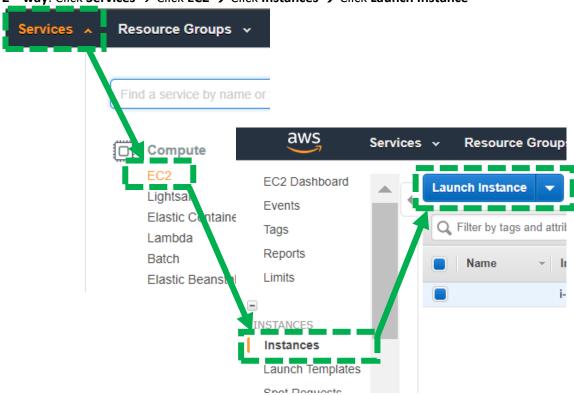
2. Create Instance

2.1. Navigate to instance creation page. (2 ways to do it)

2.1.1. 1st way: Click Launch a virtual machine



2.1.2. 2nd way: Click Services → Click EC2 → Click Instances → Click Launch Instance

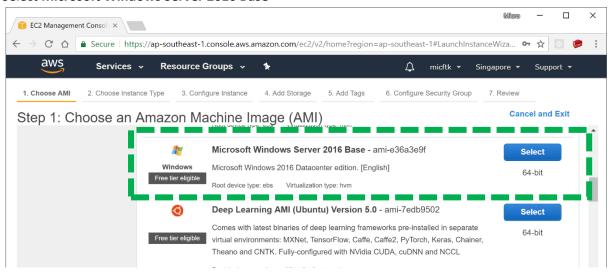




2.2. Create Instance

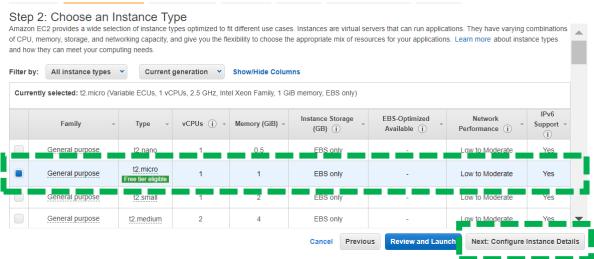
2.2.1. Choose Machine Image

Select Microsoft Windows Server 2016 Base



2.2.2. Choose Instance Type

Select t2.micro → Click Next: Configure Instance Details



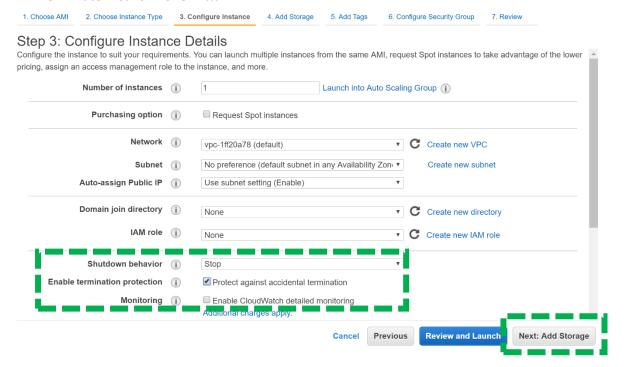


2.2.3. Configure Instance

Tick Protect against accidental termination → Click Next: Add Storage

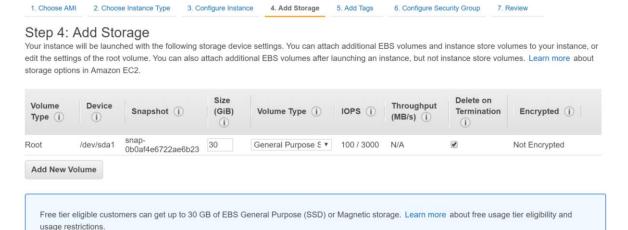
Shutdown behaviour: (Choose **Stop** as always)

- ** Stop means shutdown
- ** Terminate means DESTORY!!!



2.2.4. Add Storage (How large should be your harddisk?)

Keep the default setting, increase it later if you want → Click Next: Add Tags

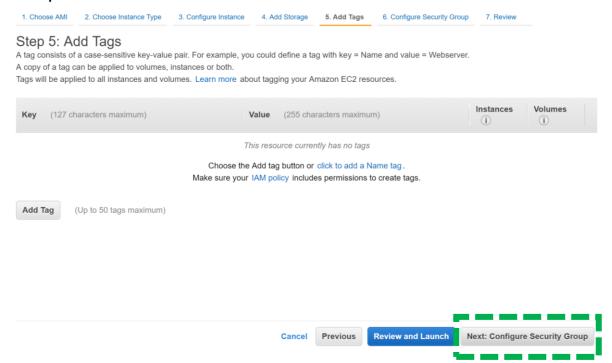






2.2.5. Add Tags (Optional Step)

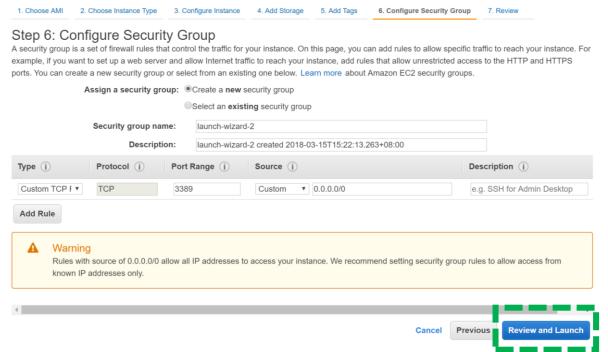
Add any tags you want to describe your new instance → Click **Next: Configure Security Group**



2.2.6. Configure Security Group

It has 3389 port in default which is Microsoft Remote Display Protocol.

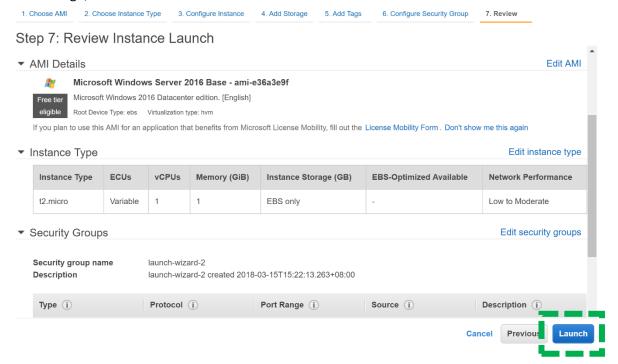
This specific port allows us to remote access the machine later.





2.2.7. Review Instance

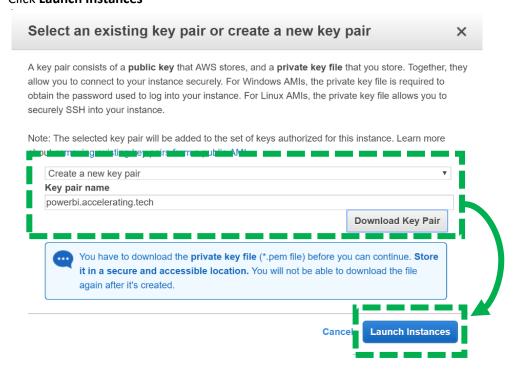
Good to go, Click Launch



2.2.8. Create key pair

It is a key pair for you to login AWS, so **PLEASE DOWNLOAD IT** and **SAVE IT IN SECURE**

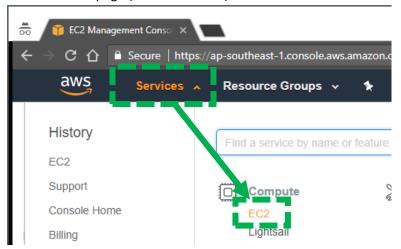
Choose **Create a new key pair** → Type key pair name → Click **Download Key Pair** → Click **Launch Instances**



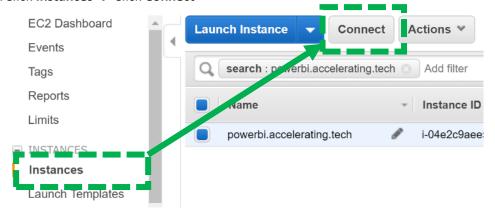


3. Retrieve Windows Administrator's Password in AWS

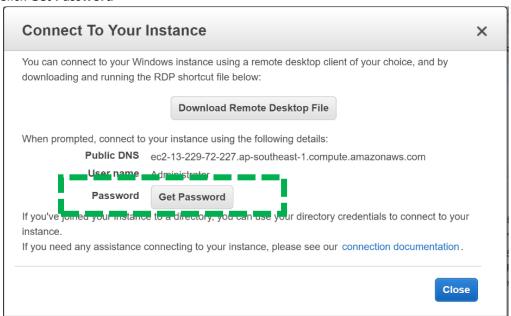
3.1. Go back to **EC2** page (Services → EC2)



3.2. Click Instances → Click Connect

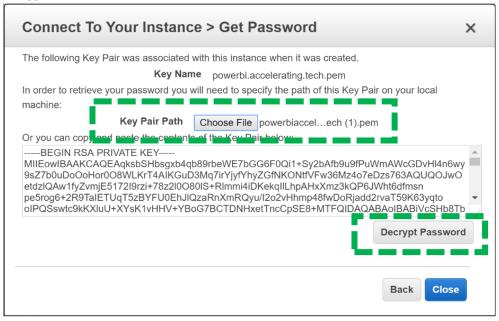


3.3. Click Get Password





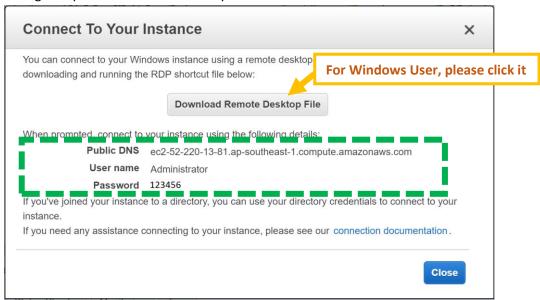
3.4. Click **Choose File** → Choose the .pem file we downloaded in <u>"Create Key Pair"</u> section → Click **Decrypt Password**



3.5. Please remember Public DNS, User name, Password

We are going to use it to access our remote machine.

For Windows User, please click **Download Remote Desktop File** to download a preconfigured profile to remote access your local machine





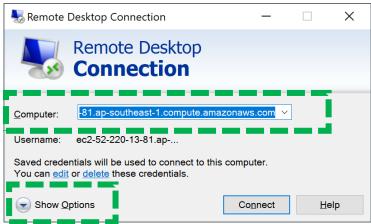
4. Remote Access

You have created a remote machine and retrieve all the necessary information from AWS. Let's connect it from our local machine.

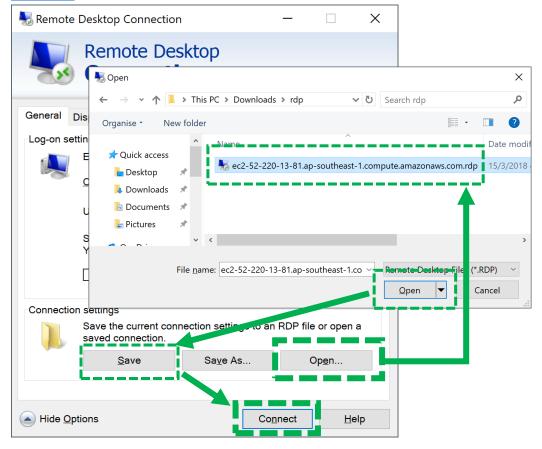
- For Windows Users, please read <u>4.1</u>.
- For Max Users, please read 4.2.
- For Linux Users, please contact our staff to help you.

4.1. Remote Access on Windows

4.1.1. Press **Win + R** on keyboard → Type **mstsc** → Type the <u>Public DNS</u> in computer name → Click **Show Options**

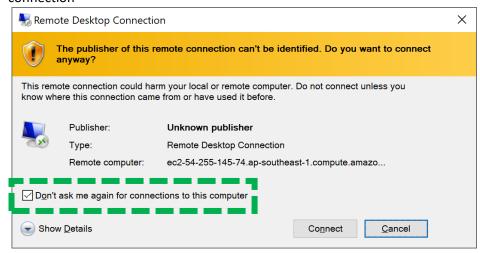


4.1.2. Click **Open...** → Choose the rdp file you downloaded in <u>"Markdown Username and Password"</u> section → Click **Save** → Click **Connect**



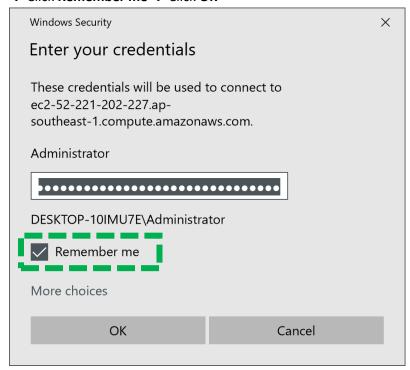


4.1.3. If the below image pops up, Tick the box → Click Connect to trust the remote connection



4.1.4. Enter Password (it should be retrieved in "Markdown Username and Password" section)

→ Click Remember me → Click OK



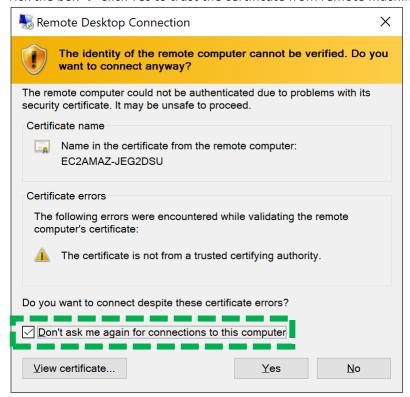
4.1.5. Copy file from local PC to remote machine

Easy to do it on Windows:

- 1. Select any files/folders in your local PC, press **Ctrl + c** to copy it
- 2. In your remote machine, press Ctrl + v to paste it.



4.1.6. Tick the box \rightarrow Click Yes to trust the certificate from remote machine



Congratulation! You should be able to see the Windows desktop screen in this stage.





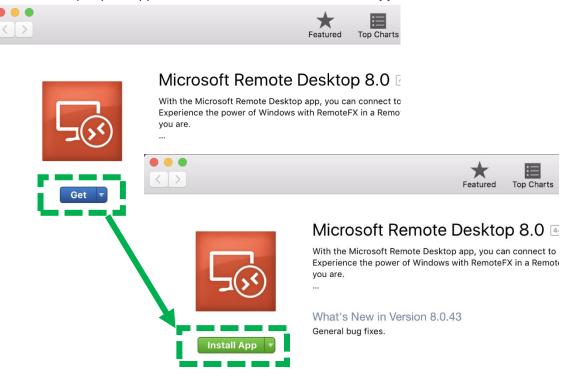
4.2. Remote Access on Mac

4.2.1. Install Microsoft Remote Desktop 8.0

Go to App Store: https://itunes.apple.com/us/app/microsoft-remote-desktop-8-0/id715768417?mt=12



4.2.2. Click **Get** \rightarrow Input your Apple Account Password \rightarrow Click **Install App**

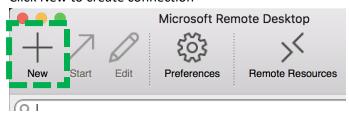




4.2.3. Microsoft Remote Desktop App is installed \rightarrow Click the Icon to start the app



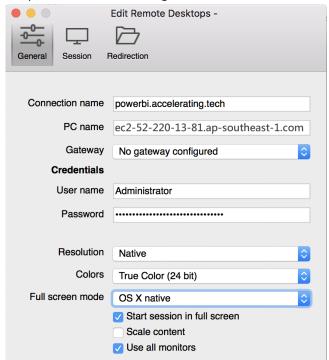
4.2.4. Click New to create connection



4.2.5. Fill in information

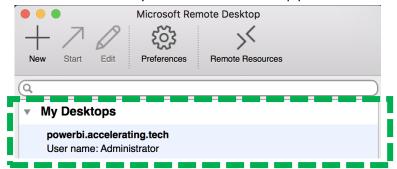
Connection name	<type any="" name="" want="" you=""></type>
PC name	<public dns=""></public>
Gateway	No gateway configured
User name	Administrator
Password	<the copied="" in="" key="" pair="" password="" you=""></the>

Keep the rest of the settings as default → Close the setting page





4.2.6. Double Click the newly created remote desktop profile to connect your remote machine.



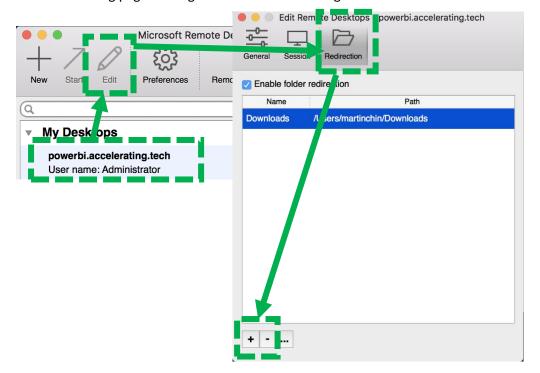
Congratulation! You should be able to see the windows desktop screen in this stage.

4.2.7. Add Share Folder b/w Mac and Remote Machine (Optional)

If you do not want to download file through remote server, you may add a share folder in remote settings.

Select the profile \rightarrow Click **Edit** \rightarrow Choose **Redirection** \rightarrow Click + \rightarrow Choose your desired folders you want to share with your remote machine \rightarrow

Close the setting page and login to remote machine again



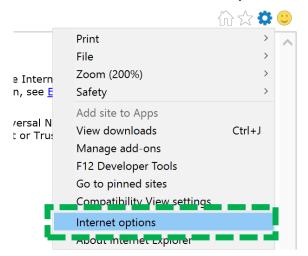


5. Install PowerBI

5.1. Enable File Download in IE

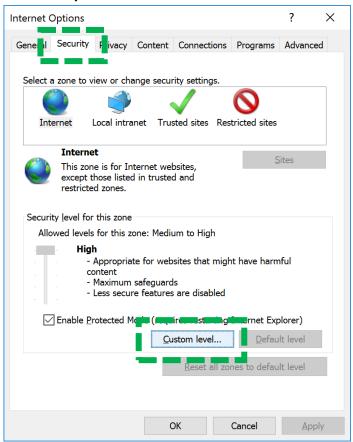
5.1.1. In your remote machine, Open Internet Explorer on the Taskbar



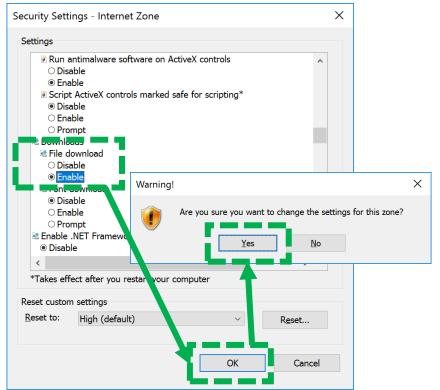




5.1.3. Click **Security** → **Custom level....**



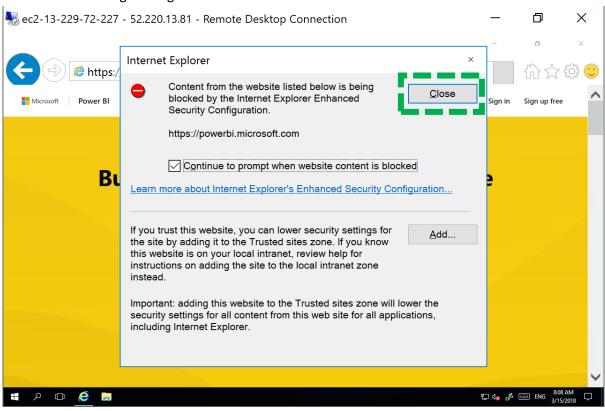
5.1.4. File download \rightarrow Click **Enable** \rightarrow Click **OK** \rightarrow Click **Yes** to save the settings.





5.2. Download PowerBI

5.2.1. Go to PowerBI webpage: https://powerbi.microsoft.com/en-us/get-started/ → Click **Close** if blocking message shows



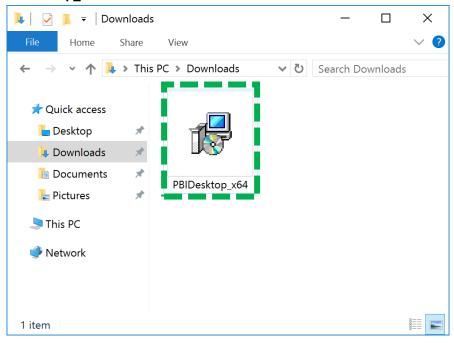
5.2.2. Click DOWNLOAD FREE to start downloading it



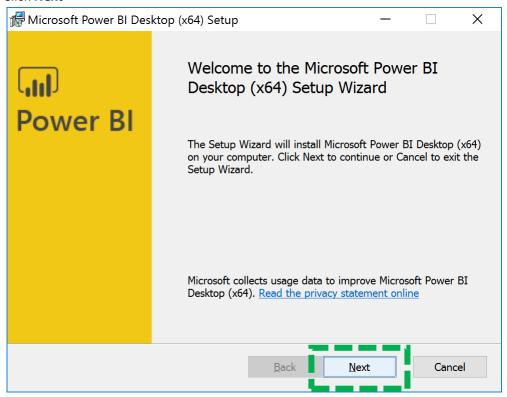


5.3. Install PowerBI

5.3.1. Open Windows Explore → C:\Users\Administrator\Download → Double Click **PBIDesktop_x64.msi**

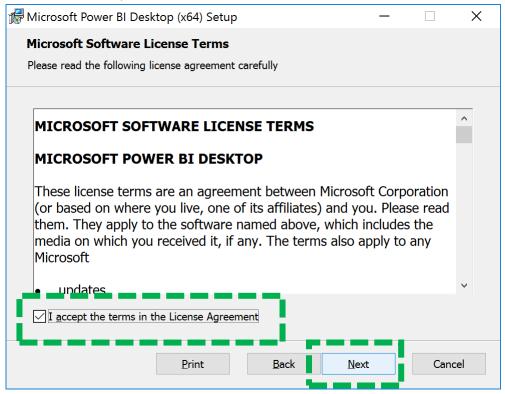


5.3.2. Click Next

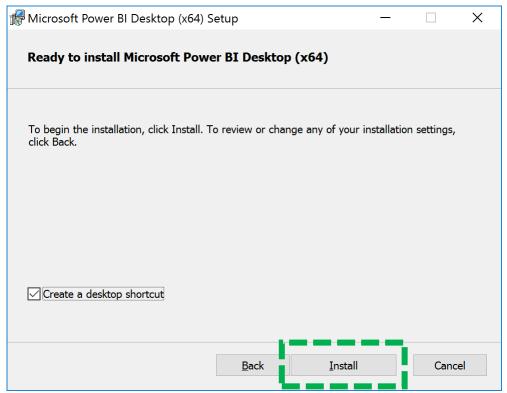




5.3.3. Tick the box to accept the term \rightarrow Click **Next**

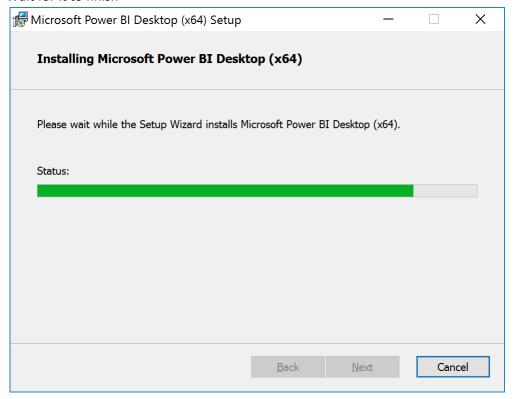


5.3.4. Click Install





5.3.5. Wait for it to finish



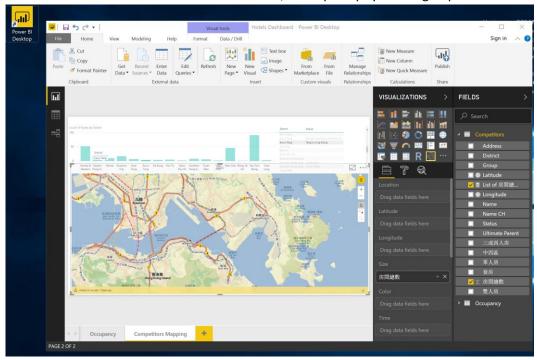
5.3.6. Click Finish





From here, you are good to go. Enjoy it.

After the PowerBI is launched for the first time, it will prompt you to sign up the service.



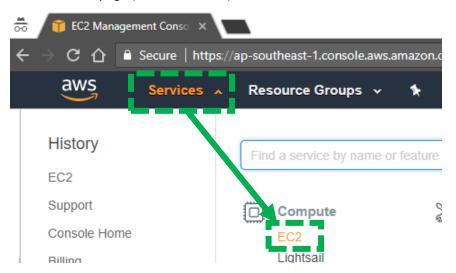


6. Create Elastic IP (Optional Step)

You may find that after you stop and start your remote machine, you cannot access it anymore. Why? Oh GOD! the IP has changed.

Elastic IP is here to save us to provide a dedicated IP for our remote machine.

6.1. Go back to **EC2** page (Services → EC2)



6.2. Click Elastic IPs → Allocate new address



6.3. Click Allocate





6.4. A new IP is allocated, Click Close

It allocated 52.220.13.81 for me. Your IP MUST be different from mine.

Addresses > Allocate new address

Allocate new address



6.5. Click **Actions** → Click **Associate address**



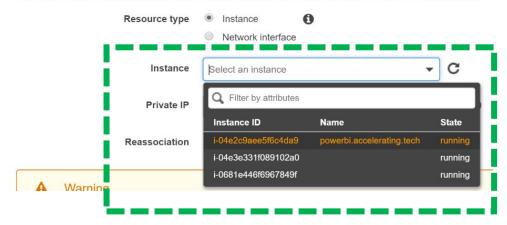
6.6. Associate address

- Choose the instance you created
- Choose the Private IP
- Click Associate

Addresses > Associate address

Associate address

Select the instance OR network interface to which you want to associate this Elastic IP address (52.220.13.81)





Addresses > Associate address

Associate address

Select the instance OR network interface to which you want to associate this Elastic IP address (52.220.13.81)





** Private IP - 172.31.3.24 is an Intranet IP and the IP - 52.220.13.81 which is allocated by Elastic IP is Public IP/Internet IP. Read the following post to know what internet and intranet is:

https://www.tutorialspoint.com/computer fundamentals/computer internet intranet.htm

6.7. Click Close

Addresses > Associate address

Associate address

Associate address request succeeded

Close