

DIGITAL
TALENT
SCHOLARSHIP
2019

Big Data Analytics





TERBUKA UNTUK DISABILITAS

# **AWS Cloud Tutorial**

EC2 Instance





## Pembuatan Instance EC2 AWS

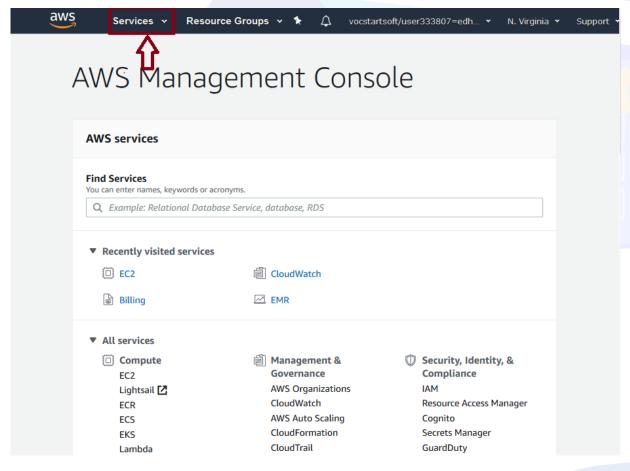
Big Data EC2 AWS





#### Pilih Menu Service

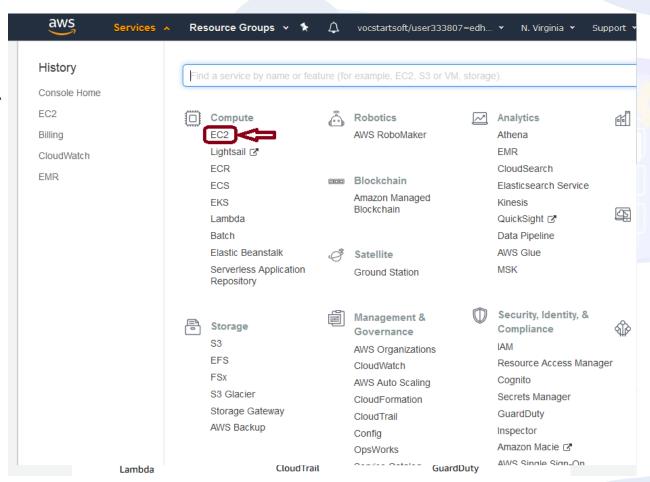
 Pilih Menu Service Pada AWS Console





#### Pilih EC2 Service

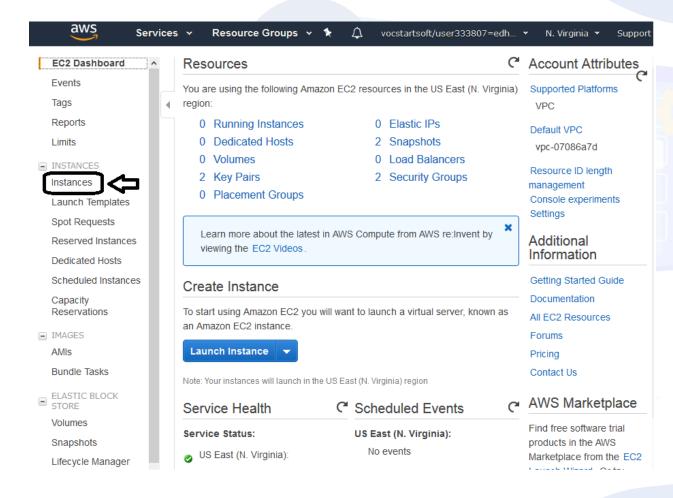
Pilih EC2
 service pada
 Bagian
 Compute





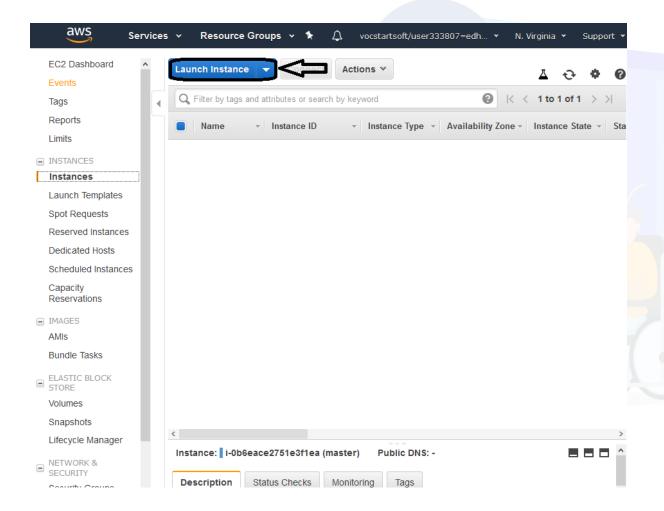
#### Pilih Menu Instance

Pilih Menu Instance Pada Instances





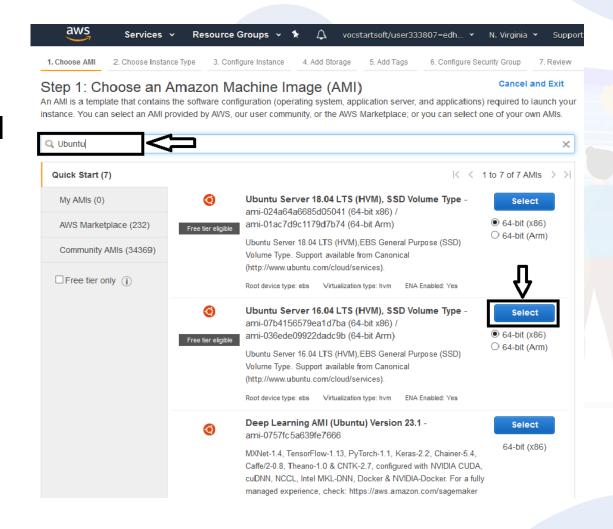
#### **Pilih Launch Instance**





#### Pilih OS

 Pilih OS yang anda inginkan (Dalam Tutorial ini Ubuntu Server 16.04 LTS)





#### Pilih Instance Type

Pilih Instance
 Type yang
 diinginkan
 (dalam tutorial
 ini adalah
 t2.micro)

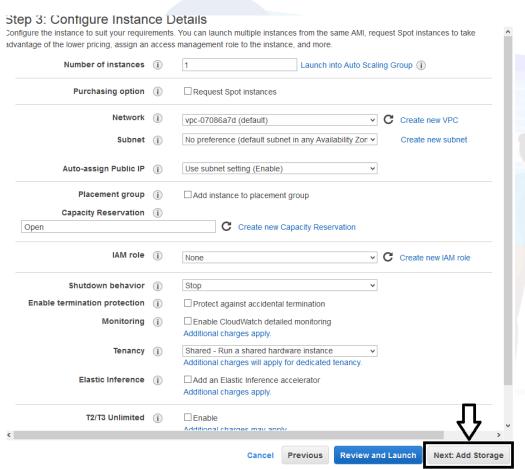
Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)								
	Family +	Туре 🔻	vCPUs (j) 🔻	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available (i)	Network Performance (j)	
	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	
	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	
	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	
	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	
	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	
	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	
	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	
	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	
	General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	
	General purpose	t3a.small	2	2	EBS only	Yes	Up to 5 Gigabit	
	General purpose	t3a.medium	2	4	EBS only	Yes	Up to 5 Gigabit	
<							<b>₹</b>	
				Previous	Review and Launc	Next: Config	Next: Configure Instance Details	



#### Konfigurasi Instance

Konfigurasi

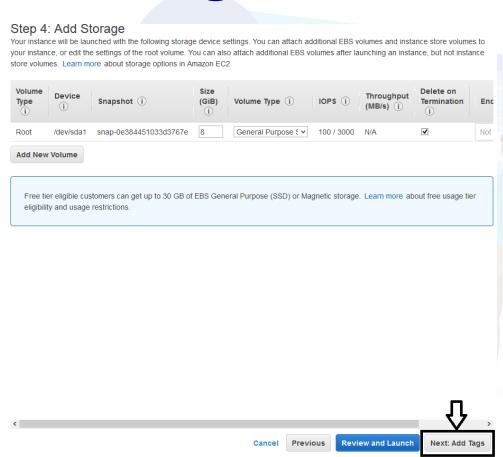
 Instance sesuai
 kebutuhan
 (dalam tutorial
 ini adalah
 konfigurasi
 default)





#### Menambahkan Storage

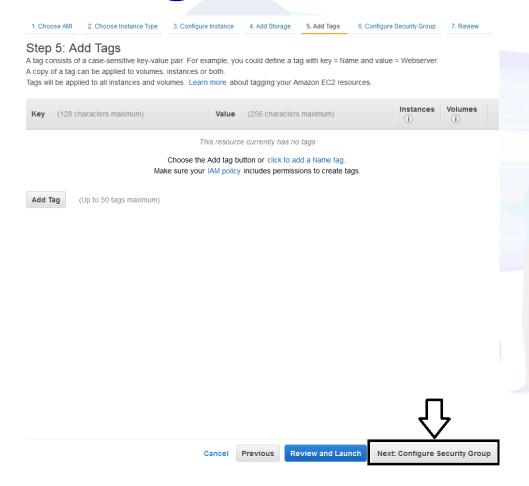
 Tambahkan storage sesuai kebutuhan (dalam tutorial ini adalah konfigurasi default)





#### Menambahkan Tag

 Tambahkan Tag (dalam tutorial ini tidak ditambahkan)

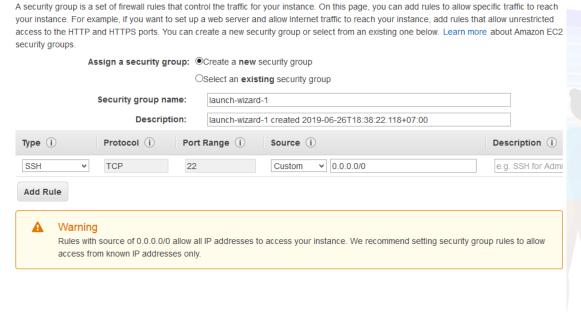




#### Konfigurasi Security Group

Step 6: Configure Security Group

- Konfigurasikan sesuai kebutuhan.
- Open port (Hadoop):
  - 8020
  - 50010
  - 50020
  - 9000
- (Spark):
  - 7077
  - 8080



Previous

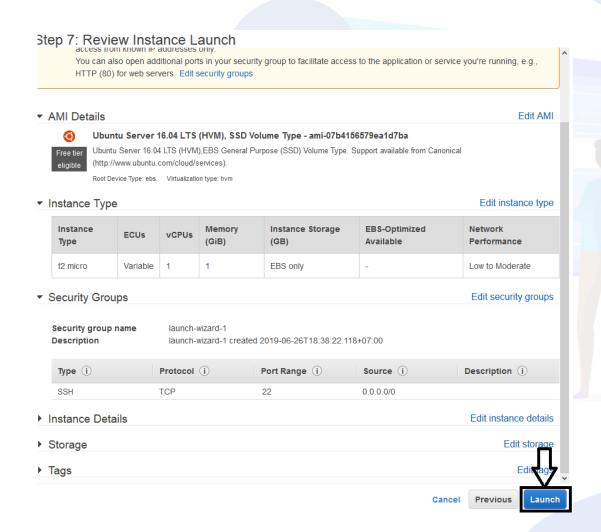
Review and Launch



#### **Review Instance**

Review

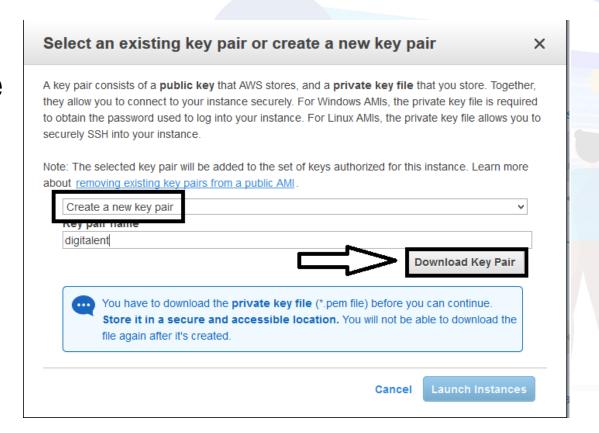
 Instance anda
 dan re konfigurasi
 sesuai
 kebutuhan





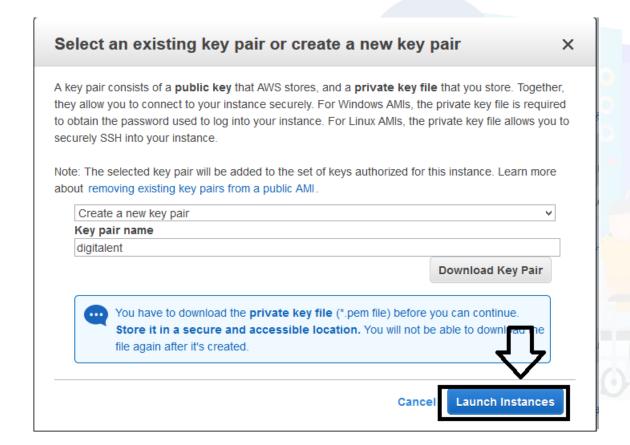
#### **Key Pair**

 Buat dan unduh private key untuk mengakses instance





#### **Launch Instance**





#### View Instance

Launch Status

Your instances are now launching

The following instance launches have been initiated: i-0f0471df57f30de5f View launch log

Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

#### How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. Find out how to connect to your instances.

- ▼ Here are some helpful resources to get you started
- · How to connect to your Linux instance
- Amazon EC2: User Guide

Learn about AWS Free Usage Tier

Amazon EC2: Discussion Forum

While your instances are launching you can also

Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)

Create and attach additional EBS volumes (Additional charges may apply)

Manage security groups



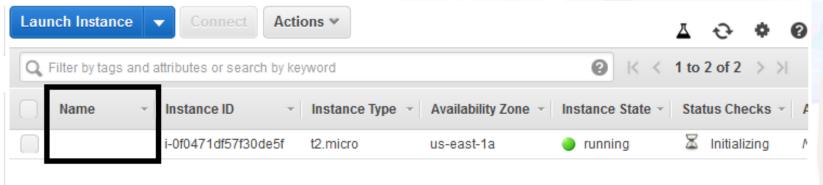


#### Pilih Menu Service

Beri nama instance anda

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BREAK YOUR









### **Akses EC2 Instance**

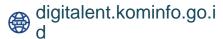
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#### Requirement

- Windows
  - Putty: <a href="https://www.putty.org/">https://www.putty.org/</a> <a href="https://www.putty.org/">DISABILITAS</a>
  - WinSCP: <a href="https://winscp.net/eng/download.php">https://winscp.net/eng/download.php</a>
  - Pirant lunak lainnya.
- Linux
  - SSH Client.





# **Akses EC2 Instance** (Konversi Key)

Big Data EC2 AWS





#### Konversi Key (PuttyGen)

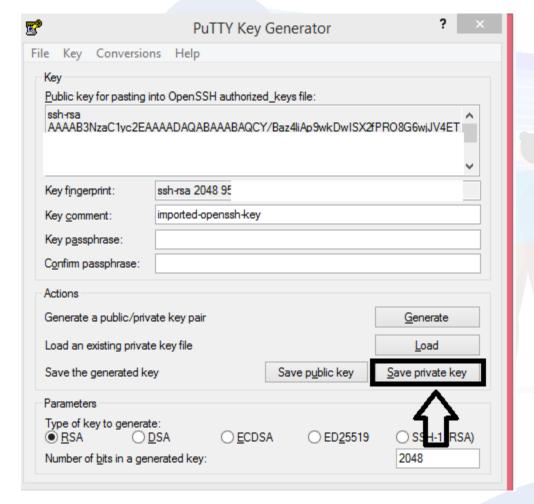
 Load .pem key yang diunduh sebelumnya.





#### Konversi Key (PuttyGen)

 Simpan .ppk key.





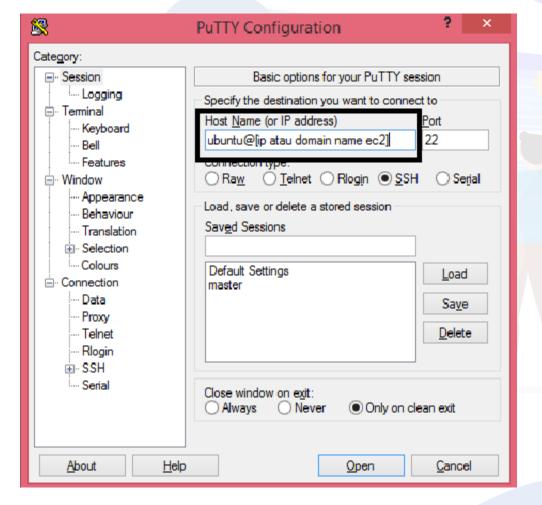
# **Akses EC2 Instance** (Putty)

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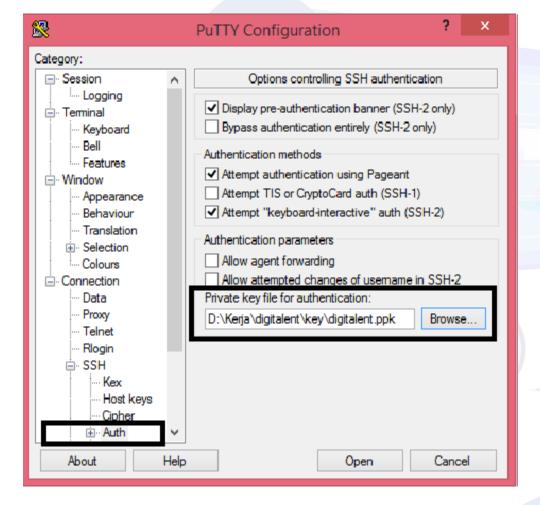


 Masukkan Hostname atau IP



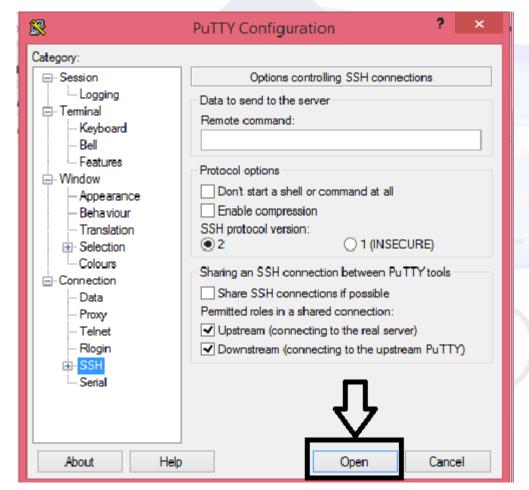


 Pada category SSH/Auth masukkan .ppk key.





 Klik pada button open.





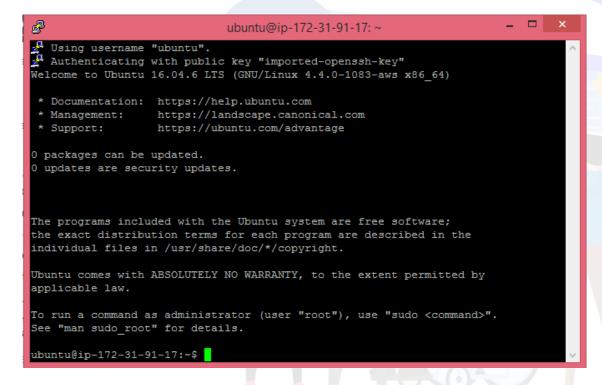
Klik button
 Yes.





Koneksi

 Terbuka ke
 EC2
 Instance.





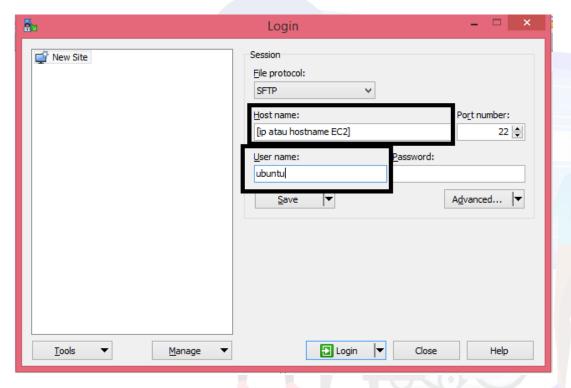
# Akses EC2 Instance (WinSCP)

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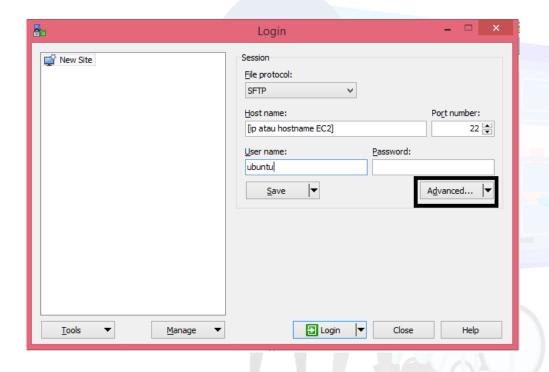


 Masukkan HostName dan Username.



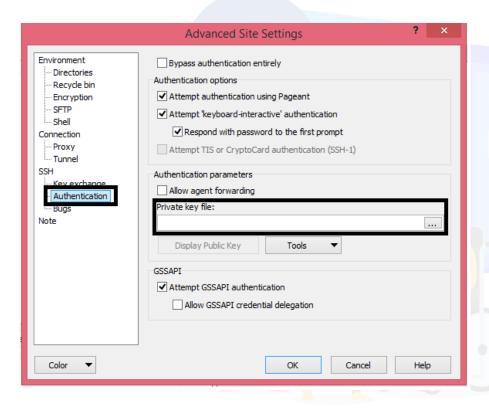


 Pilih menu Advanced.



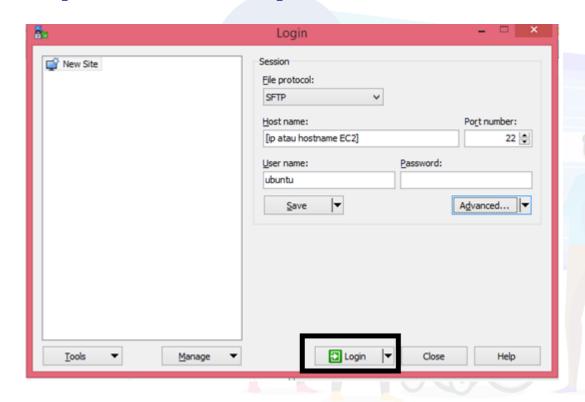


 Pada kategori SSH/Auth.., masukkan .ppk key



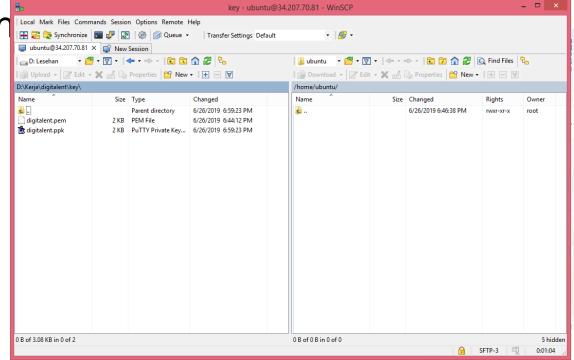


Klik button login.





 Koneksi telah terbentuk.









#### **IKUTI KAMI**







DTS\_kominfo Digital Talent Scholarship 2019

Pusat Pengembangan Profesi dan Sertifikasi Badan Penelitian dan Pengembangan SDM Kementerian Komunikasi dan Informatika Jl. Medan Merdeka Barat No. 9 (Gd. Belakang Lt. 4 - 5) Jakarta Pusat, 10110



