

Create VMs / Transfer files

- You need the public address to connect to the VM
- The private IP address is displayed when inputting the ip a command

```
Last login: Tue Dec 14 16:56:59 on ttys002
(base)
0 ~
[joe.griffin@wumbus: cd ~/Downloads
(base)
0 ~/Downloads
[joe.griffin@wumbus: chmod 400 JG_data_54000.pem
(base)
0 ~/Downloads
[joe.griffin@wumbus: ssh -i "JG_data_54000.pem" ec2-user@ec2-3-139-233-179.us-east-2.compute.amazonaws.com
Last login: Tue Dec 14 22:57:26 2021 from wumbus.fsm.northwestern.edu
```

```
__|  __|_ )
_| (  /   Amazon Linux 2 AMI
___|\\___|___|
```

```
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-10-183 ~]$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9001 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 02:1c:78:a1:41:0c brd ff:ff:ff:ff:ff:ff
    inet 172.31.10.183/20 brd 172.31.15.255 scope global dynamic eth0
        valid_lft 2545sec preferred_lft 2545sec
    inet6 fe80::1c:78ff:fea1:410c/64 scope link
        valid_lft forever preferred_lft forever
[ec2-user@ip-172-31-10-183 ~]$
```

Instances (2) Info

Refresh

Connect

Instance state ▼

Actions ▼

Launch Instances

▼

Search

< 1 > ⚙

<input type="checkbox"/>	Name ▼	Instance ID	Instance state ▼	Instance type ▼	Status check	Ala
<input type="checkbox"/>	-	i-08cca031c8f977626	<div>✔ Running</div> <div>🔍🔊</div>	t2.micro	<div>✔ 2/2 checks passed</div>	No
<input type="checkbox"/>	-	i-0e808470809458016	<div>✔ Running</div> <div>🔍🔊</div>	t2.micro	<div>✔ 2/2 checks passed</div>	No

```
Last login: Tue Dec 14 16:52:51 on ttys000
(base)
0 ~
[joegriffin@wumbus: cd ~/Downloads
(base)
0 ~/Downloads
joegriffin@wumbus: chmod 400 JG_data_54000.pem
(base)
0 ~/Downloads
[joegriffin@wumbus: scp -i JG_data_54000.pem JG_data_54000.pem ec2-]
user@3.139.233.179:/tmp
The authenticity of host '3.139.233.179 (3.139.233.179)' can't be est
ablished.
ECDSA key fingerprint is SHA256:0zTUIc3BEEW1drMAUCtX4LRSTCaqJbsLWeKLj
ZyxWEo.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '3.139.233.179' (ECDSA) to the list of kno
wn hosts.
JG_data_54000.pem
100% 1700 151.0KB/s 00:00
(base)
0 ~/Downloads
[joegriffin@wumbus: exit
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.

[Process completed]
```

```

[[ec2-user@ip-172-31-10-183 tmp]$ echo "You can do it" > testfile.txt ]
[ec2-user@ip-172-31-10-183 tmp]$ cat testfile.txt ]
[You can do it ]
[ec2-user@ip-172-31-10-183 tmp]$ scp -i JG_data_54000.pem testfile.txt ec2-
user@3.145.70.218:/tmp
testfile.txt
      100%  14   10.1KB/s   00:00
[ec2-user@ip-172-31-10-183 tmp]$ echo "Num 2" > test2.txt
[ec2-user@ip-172-31-10-183 tmp]$ echo "Num 3" > test3.txt
[ec2-user@ip-172-31-10-183 tmp]$ cat test2.txt
Num 2
[ec2-user@ip-172-31-10-183 tmp]$ cat test3.txt
Num 3
[ec2-user@ip-172-31-10-183 tmp]$ scp -i JG_data_54000.pem test2.txt ec2-use
r@3.145.70.218:/tmp
test2.txt
      100%   6    4.6KB/s   00:00
[ec2-user@ip-172-31-10-183 tmp]$ scp -i JG_data_54000.pem test3.txt ec2-use
r@3.145.70.218:/tmp
test3.txt
      100%   6    4.3KB/s   00:00
[[ec2-user@ip-172-31-10-183 tmp]$ ]
[[ec2-user@ip-172-31-10-183 tmp]$ ]
[[ec2-user@ip-172-31-10-183 tmp]$ ]
[[ec2-user@ip-172-31-10-183 tmp]$ exit ]
logout
Connection to ec2-3-139-233-179.us-east-2.compute.amazonaws.com closed.
(base)
0 ~/Downloads
[joe@griffin@wumbus: exit ]
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.



[Process completed]

```

```
[[ec2-user@ip-172-31-8-159 ~]$ cd /tmp
[[ec2-user@ip-172-31-8-159 tmp]$ ll
total 4
drwx----- 3 root    root    17 Dec 14 22:52 systemd-private-52e735c9
108aa4c1492c1f424c3-chronyd.service-1wqyGU
-rw-rw-r-- 1 ec2-user ec2-user 14 Dec 14 23:18 testfile.txt
[[ec2-user@ip-172-31-8-159 tmp]$ ll
total 12
drwx----- 3 root    root    17 Dec 14 22:52 systemd-private-52e735c9
108aa4c1492c1f424c3-chronyd.service-1wqyGU
-rw-rw-r-- 1 ec2-user ec2-user  6 Dec 14 23:26 test2.txt
-rw-rw-r-- 1 ec2-user ec2-user  6 Dec 14 23:26 test3.txt
-rw-rw-r-- 1 ec2-user ec2-user 14 Dec 14 23:18 testfile.txt
[[ec2-user@ip-172-31-8-159 tmp]$
[[ec2-user@ip-172-31-8-159 tmp]$
[[ec2-user@ip-172-31-8-159 tmp]$ exit
logout
Connection to ec2-3-145-70-218.us-east-2.compute.amazonaws.com closed.
(base)
0 ~/Downloads
[joegriffin@wumbus: exit
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.

[Process completed]
```

Modify security group / instance type

 Inbound security group rules successfully modified on security group (sg-07ea797cf6a9513cf | launch-wizard-1) 






▶ Details

EC2 > Security Groups > sg-07ea797cf6a9513cf - launch-wizard-1

sg-07ea797cf6a9513cf - launch-wizard-1

Actions ▼


Details


Security group name  launch-wizard-1	Security group ID  sg-07ea797cf6a9513cf	Description  launch-wizard-1 created 2021-12-13T12:21:47.865-06:00	VPC ID  vpc-0de6d5ab5c97bd53a vpc-0de6d5ab5c97bd53a
Owner  499548970054	Inbound rules count 0 Permission entries	Outbound rules count 1 Permission entry	

Inbound rules


Outbound rules

Tags

 You can now check network connectivity with Reachability Analyzer


Run Reachability Analyzer 


Inbound rules



Manage tags

Edit inbound rules



< 1 > 

IP version ▼	Type ▼	Protocol ▼	Port range ▼
No security group rules found			

- SSH disconnects when SSH inbound rule is deactivated
- SSH reconnects when SSH inbound rule is reactivated

✓ Instance type changed successfully

Instances (2) [Info](#)



🔍 Search

<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾
<input type="checkbox"/>	–	i-08cca031c8f977626	⊖ Stopped 🔍🔍	t2.xlarge
<input type="checkbox"/>	–	i-0e808470809458016	⊖ Stopped 🔍🔍	t2.micro

Adding additional volumes

✔ Successfully created volume [vol-02b69441b45073409](#).

Volumes (3)

🔄

Actions ▾

Create volume

🔍 Filter volumes

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<input type="checkbox"/>	Name ▾	Volume ID ▾	Type ▾	Size ▾	IOPS ▾	Throughput ▾
<input type="checkbox"/>	-	vol-0d4b70925505f80e0	gp2	8 GiB	100	-
<input type="checkbox"/>	-	vol-0dfa3006d6385a06c	gp2	8 GiB	100	-
<input type="checkbox"/>	-	vol-02b69441b45073409	gp2	10 GiB	100	-

Instances (1/2) <small>Info</small>		🔄		Connect	Instance state ▾	Actions ▾	Launch instances	▾
🔍 Search								⏮ 1 ⏭ ⚙️
<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Public IPv4 DNS
<input checked="" type="checkbox"/>	-	i-08cca031c8f977626	✔ Running 🔍	t2.micro	✔ 2/2 checks passed	No alarms +	us-east-2a	ec2-3-139-233-179.us-east-2.amazonaws.com
<input type="checkbox"/>	-	i-0e808470809458016	✔ Running 🔍	t2.micro	✔ 2/2 checks passed	No alarms +	us-east-2a	ec2-3-145-70-218.us-east-2.amazonaws.com

Instance: [i-08cca031c8f977626](#) ✕

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Root device details

Root device name

/dev/xvda

Root device type

EBS

EBS optimization

disabled

▼ Block devices

🔍 Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-0d4b70925505f80e0	/dev/xvda	8	✔ Attached	Mon Dec 13 2021 12:23:53 ...	No	-
vol-0aa3d35b7668edee1	/dev/sdf	1	✔ Attached	Tue Dec 14 2021 18:18:05 ...	No	-