

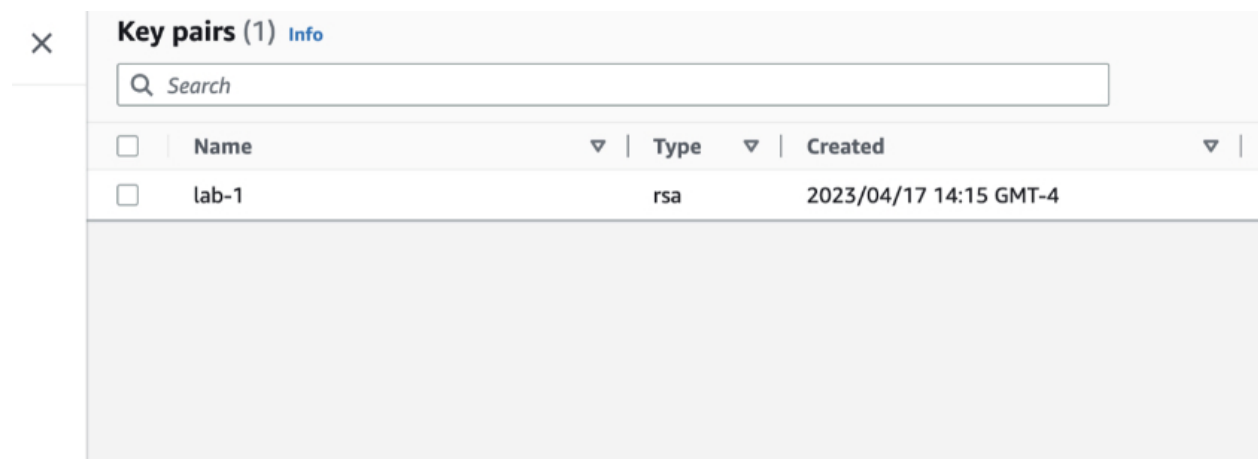
Create Linux EC2 Instance

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- Launch A Linux VM
- Connect/SSH to Machine from Local (Laptop)
 - key-pair
 - security group
- Install Httpd
- Clean up resources

First, I open up the AWS Management Console and head to the EC2 Dashboard.

Then I create a key pair for the lab.



After that, I create a security group for the instance that allows SSH and HTTP, and allow myself to access it from my local machine as well as the internet.

<div> <input checked="" type="checkbox"/> sg-08349caf8e6258cc8 lab-1-sg vpc-0e3be8db63f0d34ff Allow ssh and http </div>			
Security group name	Security group ID	Description	VPC ID
lab-1-sg	sg-08349caf8e6258cc8	Allow ssh and http	vpc-0e3be8db63f0d34ff
Owner	Inbound rules count	Outbound rules count	
677761822143	2 Permission entries	1 Permission entry	

Then I created the Instance

Instance summary for i-03dfaf52fddf33c04 Info <div> <div>Refresh</div> <div>Connect</div> <div>Instance state ▼</div> <div>Actions ▼</div> </div>		
Updated less than a minute ago		
Instance ID	Public IPv4 address	Private IPv4 addresses
i-03dfaf52fddf33c04	3.141.100.50 open address	172.31.41.47
IPv6 address	Instance state	Public IPv4 DNS
–	Running	ec2-3-141-100-50.us-east-2.compute.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-41-47.us-east-2.compute.internal	ip-172-31-41-47.us-east-2.compute.internal	–
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
–	t2.micro	Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address	VPC ID	Auto Scaling Group name
3.141.100.50 [Public IP]	vpc-0e3be8db63f0d34ff	–
IAM Role	Subnet ID	
–	subnet-0f7aca142e54b481b	
IMDSv2		
Optional		

Now, it's time to connect

EC2 > Instances > i-03dfaf52fddf33c04 > Connect to instance

Connect to instance [Info](#)

Connect to your instance i-03dfaf52fddf33c04 using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID
i-03dfaf52fddf33c04

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is lab-1.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 lab-1.pem
4. Connect to your instance using its Public DNS:
ec2-3-141-100-50.us-east-2.compute.amazonaws.com

Example:

```
ssh -i "lab-1.pem" ec2-user@ec2-3-141-100-50.us-east-2.compute.amazonaws.com
```

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI vendor has changed the default user name.

I run terminal and connect to the instance using SSH and also install httpd

```
ec2-user@ip-172-31-41-47:~  
Complete!  
[ec2-user@ip-172-31-41-47 ~]$ sudo systemctl start httpd  
sudo: systemctl: command not found  
[ec2-user@ip-172-31-41-47 ~]$ sudo systemctl start httpd  
[ec2-user@ip-172-31-41-47 ~]$ sudo systemctl status httpd  
● httpd.service - The Apache HTTP Server  
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor prese  
t: disabled)  
   Active: active (running) since Mon 2023-04-17 18:35:32 UTC; 42s ago  
     Docs: man:httpd.service(8)  
  Main PID: 3467 (httpd)  
   Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes se  
rved/sec:  0 B/sec"  
    CGroup: /system.slice/httpd.service  
            └─3467 /usr/sbin/httpd -DFOREGROUND  
              └─3468 /usr/sbin/httpd -DFOREGROUND  
                └─3469 /usr/sbin/httpd -DFOREGROUND  
                  └─3470 /usr/sbin/httpd -DFOREGROUND  
                    └─3471 /usr/sbin/httpd -DFOREGROUND  
                      └─3472 /usr/sbin/httpd -DFOREGROUND  
  
Apr 17 18:35:32 ip-172-31-41-47.us-east-2.compute.internal systemd[1]: Starti...  
Apr 17 18:35:32 ip-172-31-41-47.us-east-2.compute.internal systemd[1]: Starte...  
Hint: Some lines were ellipsized, use -l to show in full.  
[ec2-user@ip-172-31-41-47 ~]$
```

It looks like it's connected and running so now I check it in the browser.

