

## 1. Creating and connecting to instance in ssh

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Name

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An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

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EC2 > Instances > i-017c3a793b4f17370 > Connect to Instance

### Connect to instance [Info](#)

Connect to your instance i-017c3a793b4f17370 (22975276-Instance) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-017c3a793b4f17370 (22975276-Instance)

Public IP address

13.55.35.61

User name

Connect using a custom user name, or use the default user name ubuntu for the AMI used to launch the instance.

**Note:** In most cases, the guessed user name is correct. However, read your AMI documentation to confirm the user name. The AMI owner has changed the default AMI user name.

```
ubuntu@ip-172-31-46-58: ~
Permissions 0664 for '22975276-lab6key.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "22975276-lab6key.pem": bad permissions
ubuntu@13.55.35.61: Permission denied (publickey).
lachlan@lachlan-VirtualBox: ~/.ssh$ chmod 400 22975276-lab6key.pem
lachlan@lachlan-VirtualBox: ~/.ssh$ ssh -i 22975276-lab6key.pem ubuntu@13.55.35.61
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1019-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Fri Sep 23 14:26:53 UTC 2022

System load:  0.0107421875   Processes:            103
Usage of /:   19.5% of 7.57GB Users logged in:       0
Memory usage: 21%           IPv4 address for eth0: 172.31.46.58
Swap usage:   0%

0 updates can be applied immediately.
```

```

ubuntu@ip-172-31-46-58:~$ sudo apt-get update
Hit:1 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]
Get:3 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Fetched 324 kB in 1s (268 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-46-58:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages have been kept back:
  grub-efi-amd64-bin grub-efi-amd64-signed gzip libnss-systemd libpam-systemd
  libsystemd0 libudev1 linux-aws linux-headers-aws linux-image-aws systemd
  systemd-sysv udev
0 upgraded, 0 newly installed, 0 to remove and 13 not upgraded.
ubuntu@ip-172-31-46-58:~$ sudo apt-get install python3-venc
Reading package lists... Done
Building dependency tree... Done

```

```

ubuntu@ip-172-31-46-58:~$ sudo bash

```

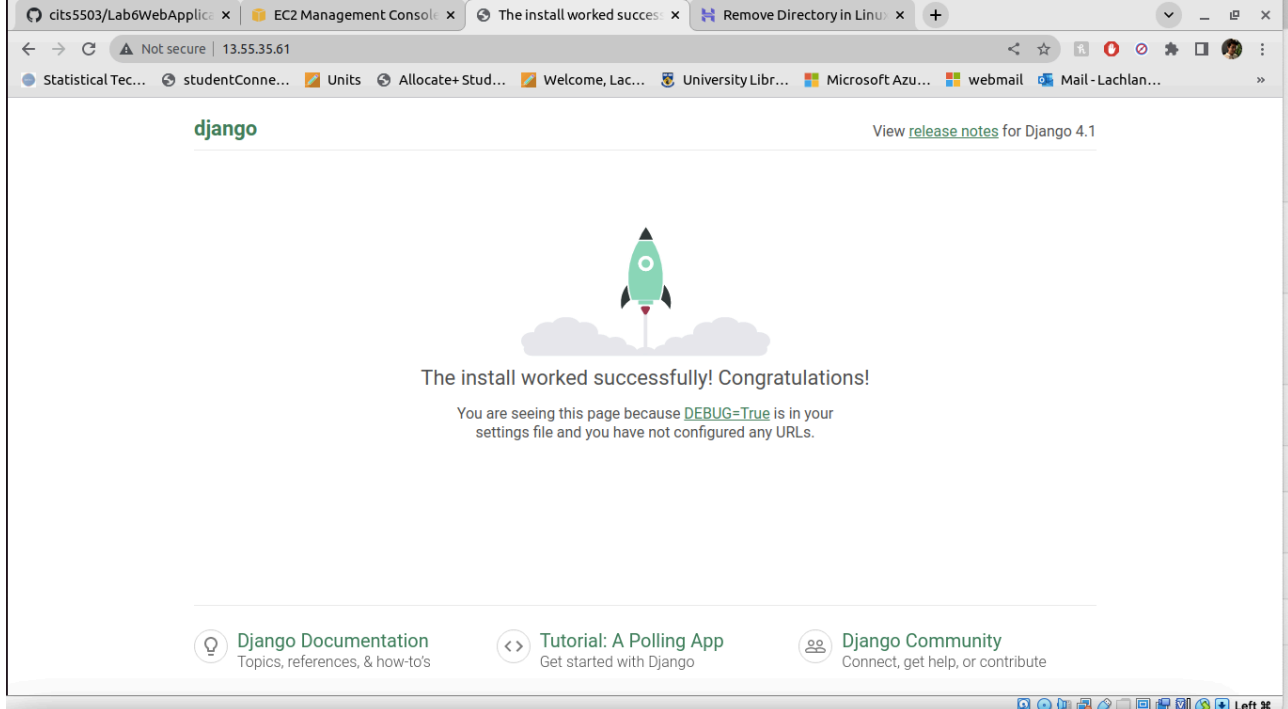
Syntax error

```

root@ip-172-31-46-58:/home/ubuntu# apt install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-pip is already the newest version (22.0.2+dfsg-1).
0 upgraded, 0 newly installed, 0 to remove and 13 not upgraded.
root@ip-172-31-46-58:/home/ubuntu# mkdir -p /opt/wwc/mysites
root@ip-172-31-46-58:/home/ubuntu# cd /opt/wwc
root@ip-172-31-46-58:/opt/wwc# ls
(venv) root@ip-172-31-46-58:/opt/wwc/mysites# ls
lab venv
(venv) root@ip-172-31-46-58:/opt/wwc/mysites# rm lab
rm: cannot remove 'lab': Is a directory
(venv) root@ip-172-31-46-58:/opt/wwc/mysites# rm -r lab
(venv) root@ip-172-31-46-58:/opt/wwc/mysites# ls
venv
(venv) root@ip-172-31-46-58:/opt/wwc/mysites# pip3 install django
Requirement already satisfied: django in ./venv/lib/python3.10/site-packages (4.1.1)
Requirement already satisfied: sqlparse>=0.2.2 in ./venv/lib/python3.10/site-packages (from django) (0.4.2)
Requirement already satisfied: asgiref<4,>=3.5.2 in ./venv/lib/python3.10/site-packages (from django) (3.5.2)
(venv) root@ip-172-31-46-58:/opt/wwc/mysites# django-admin startproject lab
(venv) root@ip-172-31-46-58:/opt/wwc/mysites# python3 manage.py startapp polls
python3: can't open file '/opt/wwc/mysites/manage.py': [Errno 2] No such file or directory
(venv) root@ip-172-31-46-58:/opt/wwc/mysites#
lab manage.py
(venv) root@ip-172-31-46-58:/opt/wwc/mysites# python3 manage.py startapp polls
python3: can't open file '/opt/wwc/mysites/manage.py': [Errno 2] No such file or

```





### Question 3 changing the code

```
^C(venv) root@ip-172-31-46-58:/opt/wwc/mysites/lab# vim polls/views.py
(venv) root@ip-172-31-46-58:/opt/wwc/mysites/lab# vim polls/urls.py
(venv) root@ip-172-31-46-58:/opt/wwc/mysites/lab# vim lab/urls.py
(venv) root@ip-172-31-46-58:/opt/wwc/mysites/lab# python3 manage.py runserver 8000
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you
  apply the migrations for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
September 23, 2022 - 15:31:27
Django version 4.1.1, using settings 'lab.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
Not Found: /
[23/Sep/2022 15:31:31] "GET / HTTP/1.0" 404 2162
```

A screenshot of a web browser showing the Django development server output. The browser's address bar shows '13.55.35.61/polls/'. The page content displays the output of the Django server, including the message 'Hello, world.' and a 404 error message for the path '/'. The browser's developer tools are open, showing the network tab with a 404 error.

**Vim is me accessing the files where I copied and pasted the code into the files. The changes are seen when I run the server.**

```
root@ip-172-31-46-58: /opt/wwc/mysites/lab

from django.shortcuts import render
from django.http import HttpResponse

def index(request):
    return HttpResponse("Hello, world.")

# Create your views here.
~
~

root@ip-172-31-46-58: /opt/wwc/mysites/lab

from django.urls import path
from . import views

urlpatterns = [
    path('', views.index, name='index'),
]

root@ip-172-31-46-58: /opt/wwc/mysites/lab

"""lab URL Configuration

The `urlpatterns` list routes URLs to views. For more information please see:
    https://docs.djangoproject.com/en/4.1/topics/http/urls/
Examples:
Function views
    1. Add an import:  from my_app import views
    2. Add a URL to urlpatterns:  path('', views.home, name='home')
Class-based views
    1. Add an import:  from other_app.views import Home
    2. Add a URL to urlpatterns:  path('', Home.as_view(), name='home')
Including another URLconf
    1. Import the include() function: from django.urls import include, path
    2. Add a URL to urlpatterns:  path('blog/', include('blog.urls'))
"""

from django.urls import include, path
from django.contrib import admin

urlpatterns = [
    path('polls/', include('polls.urls')),
    path('admin/', admin.site.urls),
]
```



4. Creating a healthy target group with pathway /polls/ and creating a target group, opening it and viewing the webpage at domain/polls.

Details

arn:aws:elasticloadbalancing:ap-southeast-2:523265914192:targetgroup/22975276-TG1/675558a40e58e210

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 80	HTTP1	vpc-0b754f714cd1af245
IP address type	Load balancer		
IPv4	22975276-lb		

Total targets	Healthy	Unhealthy	Unused	Initial	Draining
1	1	0	0	0	0

Name

22975276-lb

ARN

arn:aws:elasticloadbalancing:ap-southeast-2:523265914192:loadbalancer/app/22975276-lb/e365eca79ef9d907

DNS name

22975276-lb-845056372.ap-southeast-2.elb.amazonaws.com

State

Active

cits5503/Lab6Web

EC2 Management

Target groups | EC

13.55.35.61/polls/

Instances | EC2 Ma

22975276-lb-8450

Not secure

22975276-lb-845056372.ap-southeast-2.elb.amazonaws.com/polls/

Statistical Tec...

studentConne...

Units

Allocate+ Stud...

Welcome, Lac...

University Libr...

Microsoft Azu...

webmail

Mail - Lachlan...

Hello, world.

## Terminate instance?



On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?



i-017c3a793b4f17370 (22975276-instance)

To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone.

Cancel

Terminate

## Delete target group?



**You cannot undo this action.**

Deleting a target group deletes the group; the individual resources registered to the target group do not get deleted as a result of this action.

Are you sure you want to delete this target group?

- 22975276-TG1

Cancel

Yes, delete

## Delete Load Balancer



Are you sure you want to delete the following load balancer?

- 22975276-lb

Cancel

Yes, Delete