

# Project Template: Zones

## In this guide we will:

- Create a UQ Zone

## Step 1: Check your zone

You should be able to open jupyter notebook (where you can upload your notebook files or create new notebooks), and also

If you use this URL pattern: <https://infs7901-YOURZONENAME.uqcloud.net/phpmyadmin>

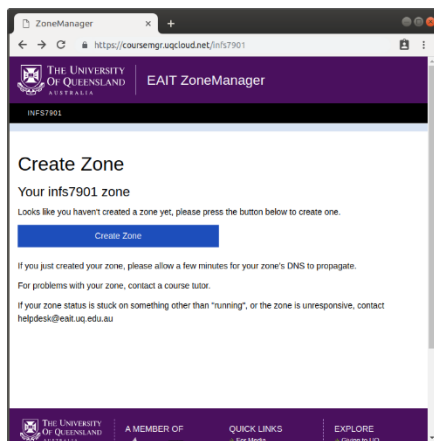
You should see (surprise) **PHPMyAdmin**

Also this URL pattern will show you jupyter notebook:

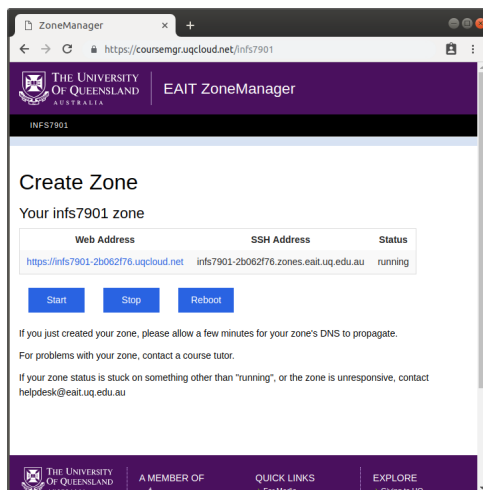
<https://infs7901-YOURZONENAME.uqcloud.net/phpmyadmin>

Go to <https://coursemgr.uqcloud.net/infs7901> and click create zone.

This will take up to 15 minutes



Wait until it says your zone is running before clicking on the address.



Your “zone name” is the part of the url after inf57901-.

In the above image the zone name is 2b062f76

Note: The zones might have already been created for you, in that case, you don’t need to do the above steps, just find your zone.

## Step 2: Copy Files

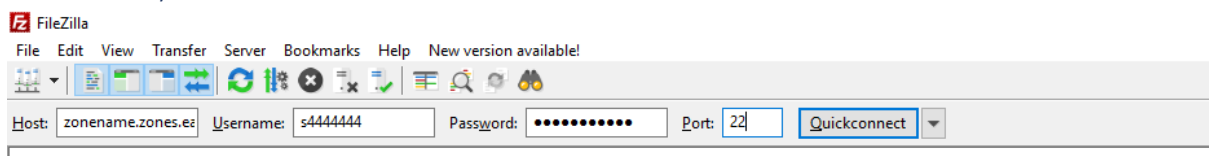
We now need to copy your local files (e.g., Code 1 or Code 2 from previous practical sessions) onto your zone.

Install Filezilla

This is a client that lets you copy files between different machines via SFTP

<https://filezilla-project.org/download.php>

Connect to your zone



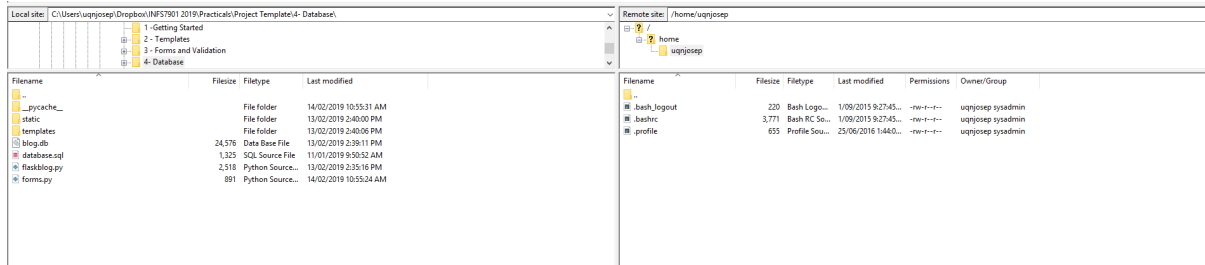
The hostname will be: **YourZonename.zones.eait.uq.edu.au**

Username: Student ID

Password: UQ password

Port: 22

## Copy files



The left hand side is your local machine, the right side is your zone. We need to copy files between the two.

On the left hand side navigate to the folder with the guide 4 files.

Right click on the right hand side and make a new folder called INFS7901 and go into the folder.

Drag ALL the files from the left hand side to the right.

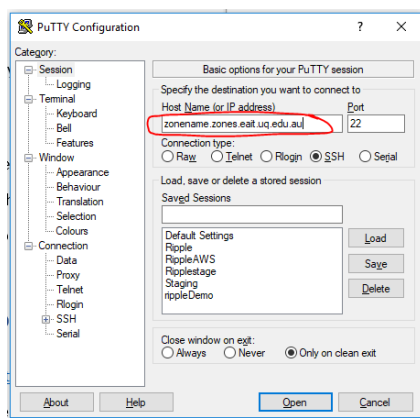
## Connect to your zone (by SSH)

**Note:** If you are not on-campus using university's internet, first you need to install and connect using [UQ VPN](#).

Windows:

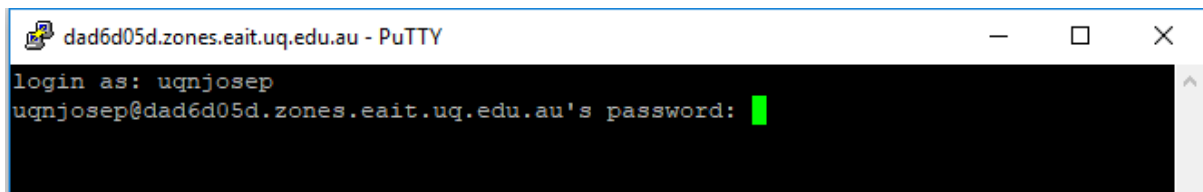
Download Putty - <https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>

Open Putty and enter your zone name in the host field then click open:



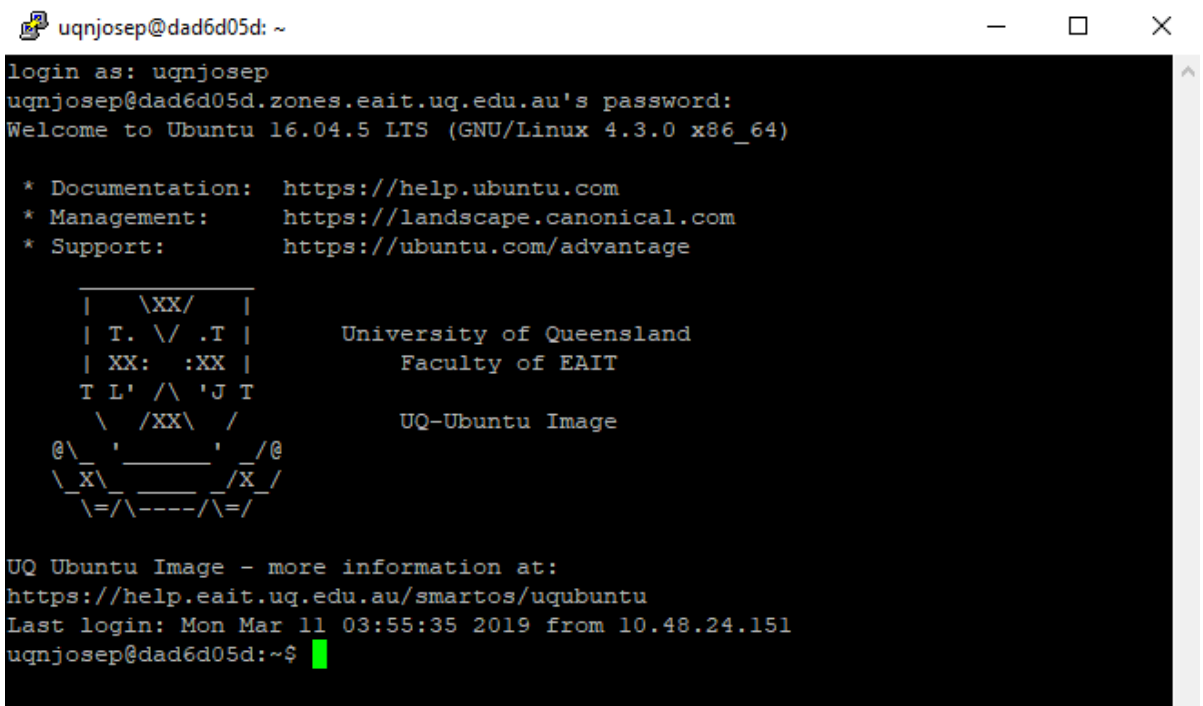
A warning may pop up asking about SSH Keys – click YES

Enter your username and password into the terminal that opens. When entering your password there will not be any visible change – keep typing and hit enter at the end.



You are now in your zone – go to the next step!

For windows you can also use MobaXterm <https://mobaxterm.mobatek.net/> which has both an SSH and file transfer (fstp) client and saves your password for you.



Mac Users:

Open terminal

Enter the command below, using your own student ID and zone name:

ssh [s1234567@zonename.zones.eait.uq.edu.au](mailto:s1234567@zonename.zones.eait.uq.edu.au)

Enter your password when prompted. When entering your password there will not be any visible change – keep typing and hit enter at the end.

```
(base) d-i184-11-35:~ rischanlab$ ssh uqrmafru@infs7901-03876d40.zones.eait.uq.edu.au
uqrmafru@infs7901-03876d40.zones.eait.uq.edu.au's password:
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.3.0 x86_64)

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

* Canonical Livepatch is available for installation.
- Reduce system reboots and improve kernel security. Activate at:
  https://ubuntu.com/livepatch

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|      \XX/      |
| T. \ / .T |    University of Queensland
| XX:  :XX |      Faculty of EAIT
| T L' /\ 'J T |
|      /XX\     |    Ubuntu WebProject
@\_ '-----' _/@
\_X\_-----\_X\_/ 03876d40.uqcloud.net
 \=/\-----/\=/   03876d40.zones.eait.uq.edu.au

UQ Ubuntu WebProject Image - more information at:
https://help.eait.uq.edu.au/smartos/webproject

Use the "webprojectl" command to enable/disable features
Last login: Thu Feb 25 23:16:40 2021 from 172.18.12.252
uqrmafru@03876d40:~$
```

### Step 3: Run your flask blog

List your home directory using `ls` command. Go to `uwsgi` directory and check whether you have `myapp.py` or not.

```
uqrmafru@03876d40:~$ ls
notebooks uwsgi
uqrmafru@03876d40:~$ cd uwsgi
uqrmafru@03876d40:~/uwsgi$ ls
myapp.py
uqrmafru@03876d40:~/uwsgi$ cat myapp.py
from flask import Flask

app = Flask(__name__)

@app.route('/')
def index():
    return "<span style='color:red'>Hello index world</span>"

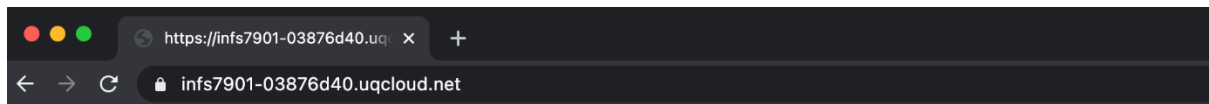
@app.route('/foobar')
def foobar():
    return "<span style='color:blue'>Hello again!</span>"

uqrmafru@03876d40:~/uwsgi$ sudo systemctl restart uwsgi.service
uqrmafru@03876d40:~/uwsgi$
```

If you have `myapp.py` you can run this myapp.py using command **sudo systemctl restart uwsgi.service**

You can change this file or replace it and then to take effect you need to restart the web service using same command above: `sudo systemctl restart uwsgi.service`

You can check your live website: <https://infs7901-YOURZONENAME.uqcloud.net/>



Hello index world