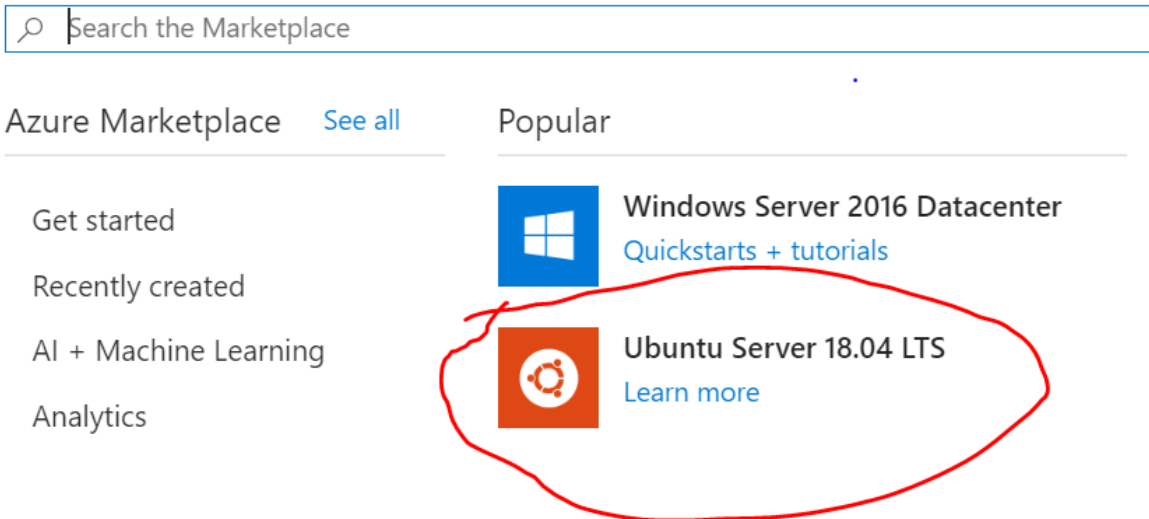


## Create Ubuntu 18.04 VM

1- Login to Azure Portal and create new resource group

2- Add new Ubuntu 18.04 Server VM with the following



Choose size to be Standard\_DS1\_v2

Authentication type password

Size \* ⓘ Standard\_DS1\_v2 - 1 vcpu, 3.5 GiB memory (\$41.61/month) ▼  
[Select size](#)

Administrator account

Authentication type ⓘ ☐ SSH public key ☒ Password

Username \* ⓘ  ✓

Password \* ⓘ  ✓

Confirm password \* ⓘ  ✓

3- Connect using ssh using powershell

ssh azureuser@vmpublicip

# Installations

## 1- install nodejs and npm

```
sudo apt-get update
```

```
curl -sL https://deb.nodesource.com/setup_14.x | sudo -E bash -
```

```
sudo apt-get install -y nodejs
```

### use the following commands to test packages

```
node --version
```

```
npm --version
```

## 2- apache

```
sudo apt-get install apache2
```

### use the following commands to test packages

```
sudo systemctl status apache2
```

## 3- mysql

```
sudo apt-get install mysql-server
```

### use the following commands to test packages

```
mysql -V
```

# Configure the web server (skip for now)

## 1. Enable mod\_rewrite

```
sudo a2enmod rewrite
```

## 2. Open the web server config file

```
sudo vi /etc/apache2/apache2.conf
```

## 3. Find the section (around line 170) that looks like:

```
<Directory /var/www/>  
    Options Indexes FollowSymLinks  
    AllowOverride None  
    Require all granted  
</Directory>
```

#### **4. Replace "None" with "All"**

```
AllowOverride All
```

#### **5. Restart the web server**

```
sudo systemctl restart apache2
```

## **Configure the database**

#### **1. Login to MySQL:**

```
sudo mysql -u root
```

#### **2. Create a new database (record the name for later)**

```
create database DATABASE_NAME;
```

#### **3. Create a new user account and grant all privileges to the user account (record the username and password for later)**

```
CREATE USER 'newuser'@'localhost' IDENTIFIED BY 'user_password';
```

#### **4. Grant all privileges to the user account over the specific database**

```
GRANT ALL PRIVILEGES ON database_name.* TO 'database_user'@'localhost';
```

## 5. Switch to the new database:

```
use DATABASE_NAME;
```

## 6. Create a new table using the following command:

```
CREATE TABLE usage_log (id int(11) NOT NULL AUTO_INCREMENT, ip varchar(20),  
within_concurrent_user_limit tinyint(4), within_allowed_ip tinyint(4), session_id varchar(40) NULL,  
created_at datetime NOT NULL, last_used datetime NOT NULL, book_uri varchar(80),book_closed  
tinyint(4), PRIMARY KEY (id));
```

## 7. Exit mysql

```
exit
```

# Build the application

### 1. Clear contents in /var/www/html/

```
sudo rm -R /var/www/html/*
```

### 2. Clone the cloud reader repository into the default Ubuntu web folder

```
sudo git clone https://bitbucket.org/bluetown-ekitabu/bluetown-cloud-reader.git /var/www/html/
```

### 3. Build the application

```
cd /var/www/html
```

```
sudo git submodule update --init --recursive
```

```
sudo npm run prepare:all
```

```
sudo npm run dist
```

### 4. Provide the database name and credentials

```
sudo vi /var/www/html/.env
```

## Add content

### 1. Create a folder for the content

```
sudo mkdir /var/www/html/epub_content
```

### 2. Download the sample publications

<https://drive.google.com/open?id=18vN65J50wTcHt5kSt8qP9lmWZ5CUnUj8>

you can use from your local machine after downloading the file to upload it to azuremachine

```
scp content.zip azureusername@azuerserver:/path/here
```

### 3. Extract the files from the downloaded zip file into the new epub\_content folder

```
sudo apt install unzip
```

```
unzip /<path_to_downloads>/Content.zip -d /var/www/html/epub_content
```

## Launch the cloud reader

### 1. Open a browser and navigate to

[http://localhost/dist/cloud-reader/?epubs=..%2F..%2Fepub\\_content%2Flibrary.json](http://localhost/dist/cloud-reader/?epubs=..%2F..%2Fepub_content%2Flibrary.json)