

Brief 4- Livrable Installation d'un serveur LAMP

Création d'une machine virtuelle – Ubuntu avec l'interface Azure CLI :

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Lancement d’Azure Cloud Shell

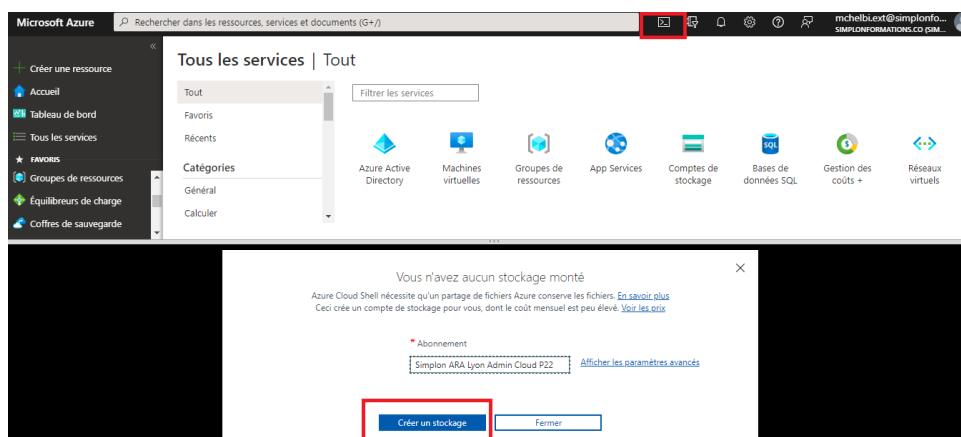
<https://portal.azure.com/#cloudshell/>



Bienvenue dans Azure Cloud Shell

Sélectionnez Bash ou PowerShell. Vous pouvez changer de shell à tout moment via le sélecteur d'environnement dans la barre d'outils Cloud Shell. L'environnement le plus récemment utilisé sera l'environnement par défaut de votre prochaine session.

Bash PowerShell



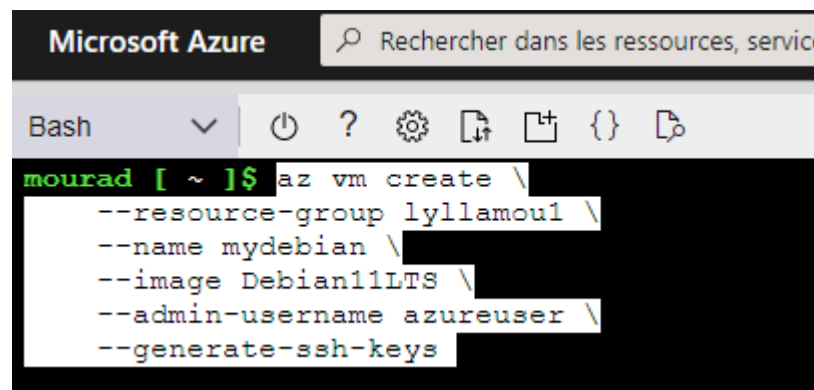
Création un groupe de ressources

Groupe de ressource name: lyllamou1

`az group create --name lyllamou1 --location westeurope`

```
mourad [ ~ ]$ az group create --name lyllamou1 --location westeurope
{
  "id": "/subscriptions/393e3de3-0900-4b72-8f1b-fb3b1d6b97f1/resourceGroups/lyllamou1",
  "location": "westeurope",
  "managedBy": null,
  "name": "lyllamou1",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
```

Création d'une machine virtuelle



```
mourad [ ~ ]$ az vm create \
  --resource-group lyllamou1 \
  --name myVM \
  --image UbuntuLTS \
  --admin-username azureuser \
  --generate-ssh-keys
Starting Build 2023 event, "az vm/vmss create" command will deploy Trusted Launch VM by default. To know more about Trusted Launch, please visit:
https://aka.ms/azvmtrustedlaunch
It is recommended to use parameter "--public-ip-sku Standard" to create new VM with Standard public IP. Please note that the default public IP
SKU will be changed from Basic to Standard in the future.
{
  "fqdns": "",
  "id": "/subscriptions/393e3de3-0900-4b72-8f1b-fb3b1d6b97f1/resourceGroups/lyllamou1/providers/Microsoft.Compute/virtualMachines/myVM",
  "location": "westeurope",
  "macAddress": "00-0D-3A-2E-19-7E",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.5",
  "publicIpAddress": "20.16.229.186",
  "resourceGroup": "lyllamou1",
  "zones": ""
}
```

Ouvrez le port 80 pour le trafic web

```
Microsoft Azure  Rechercher dans les ressources, services et documents (G+/)

Bash  ▾ | 🔌 ? ⚙️ 📄 📄 {} 📄

mourad [ ~ ]$ az vm open-port --port 80 --resource-group lyllamou1 --name mydebian
| Running ..
```

```
{
  "defaultSecurityRules": [
    {
      "access": "Allow",
      "description": "Allow inbound traffic from all VMs in VNET",
      "destinationAddressPrefix": "VirtualNetwork",
      "destinationAddressPrefixes": [],
      "destinationApplicationSecurityGroups": null,
      "destinationPortRange": "*",
      "destinationPortRanges": [],
      "direction": "Inbound",
      "etag": "W/\"bedc1a3b-401b-4051-b055-2a5582157b69\"",
      "id": "/subscriptions/393e3de3-0900-4b72-8f1b-fb3b1d6b97f1/resourceGroups/lyllamou1/providers/Microsoft.Network/networkSecurityGroups/mydebianN
SG/defaultSecurityRules/AllowVnetInBound",
      "name": "AllowVnetInBound",
      "priority": 65000,
      "protocol": "*",
      "provisioningState": "Succeeded",
    }
  ]
}
```

Se connectez avec SSH à votre machine virtuelle

```
Microsoft Azure  Rechercher dans les ressources, services et documents (G+/)

Bash  ▾ | 🔌 ? ⚙️ 📄 📄 {} 📄

azureuser@myVM:~$
```

Installation Apache, MySQL et PHP

```

Preparing to unpack .../13-mysql-server-core-5.7_5.7.41-0ubuntu0.18.04.1_amd64.deb ...
Unpacking mysql-server-core-5.7 (5.7.41-0ubuntu0.18.04.1) ...
Selecting previously unselected package libevent-core-2.1-6:amd64.
Preparing to unpack .../14-libevent-core-2.1-6_2.1.8-stable-4build1_amd64.deb ...
Unpacking libevent-core-2.1-6:amd64 (2.1.8-stable-4build1) ...
Setting up mysql-common (5.8+1.0.4) ...
update-alternatives: using /etc/mysql/my.cnf.fallback to provide /etc/mysql/my.cnf (my.cnf) i
Selecting previously unselected package mysql-server-5.7.
(Reading database ... 59967 files and directories currently installed.)
Preparing to unpack .../00-mysql-server-5.7_5.7.41-0ubuntu0.18.04.1_amd64.deb ...
Unpacking mysql-server-5.7 (5.7.41-0ubuntu0.18.04.1) ...
Progress: [ 23%] [#####.....]

```

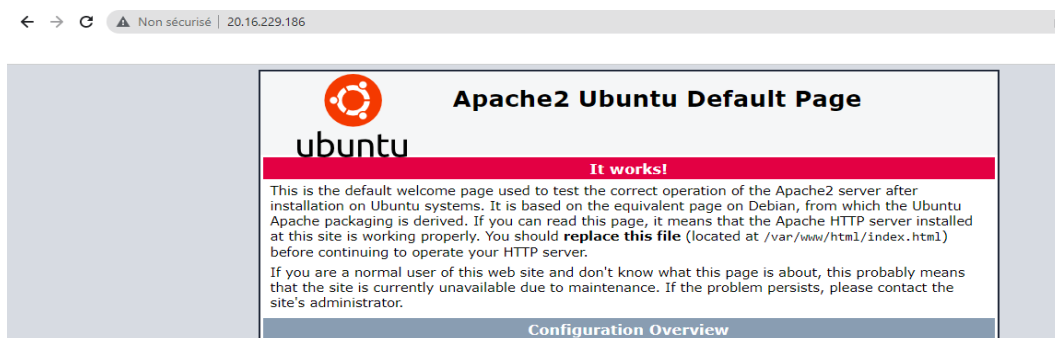
Vérification Apache

```

Bash
azureuser@myVM:~$ apache2 -v
Server version: Apache/2.4.29 (Ubuntu)
Server built: 2023-01-31T14:01:53

```

Ajout règle de port 80 sur azure pour voir apparaître sur localhost.



Vérification et sécurisation MySQL

```

Server built: 2023-01-31T14:01:53
azureuser@myVM:~$ mysql -V
mysql Ver 14.14 Distrib 5.7.41, for Linux (x86_64) using Editline wrapper
azureuser@myVM:~$

```

Mysql pass : Pass123456

```
Bash
azureuser@myVM:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.7.41-0ubuntu0.18.04.1 (Ubuntu)

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.


mysql>
```

Vérification PHP

```
Bash
azureuser@myVM:~$ php -v
PHP 7.2.24-0ubuntu0.18.04.17 (cli) (built: Feb 23 2023 13:29:25) ( NTS )
Copyright (c) 1997-2018 The PHP Group
Zend Engine v3.2.0, Copyright (c) 1998-2018 Zend Technologies
    with Zend OPcache v7.2.24-0ubuntu0.18.04.17, Copyright (c) 1999-2018, by Zend Technologies
azureuser@myVM:~$
```

Non sécurisé | 2071.33.129/info.php

PHP Version 7.2.24-0ubuntu0.18.04.17



| | |
|---------------------------|-----------------------------------------------------------------------------------------|
| System | Linux myVM 5.4.0-1103-azure #109~18.04.1-Ubuntu SMP Wed Jan 25 20:53:00 UTC 2023 x86_64 |
| Build Date | Feb 23 2023 13:29:25 |
| Server API | Apache 2.0 Handler |
| Virtual Directory Support | disabled |

Configuration WordPress

```
Microsoft Azure  Rechercher dans les ressources, services et documents (G+/)

Bash  [Icons]

CREATE DATABASE wordpress;
GRANT SELECT,INSERT,UPDATE,DELETE,CREATE,DROP,ALTER
ON wordpress.*
TO wordpress@localhost
IDENTIFIED BY 'Pass@123456';
~
~
~
~
```


Exécutez la commande suivante pour créer la base de données :

```
azureuser@myVM:~$ cat wordpress.sql | sudo mysql --defaults-extra-file=/etc/mysql/debian.cnf
```

Configuration PHP

```
Bash  [Icons]

<?php
define('DB_NAME', 'wordpress');
define('DB_USER', 'wordpress');
define('DB_PASSWORD', 'Pass@123456');
define('DB_HOST', 'localhost');
define('WP_CONTENT_DIR', '/usr/share/wordpress/wp-content');
?>
~
~
~
~
```



Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Don't worry, you can always change these settings later.

| | |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site Title | <input type="text" value="wordpress"/> |
| Username | <input type="text" value="mouchel"/> <small>Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.</small> |
| Password | <div><input type="password" value="!zOXdCVwoil#@M\$koE"/><div>Hide</div></div> <div>Strong</div> <p>Important: You will need this password to log in. Please store it in a secure location.</p> |



Username or Email Address


Password

☐ Remember Me

Log In

[Lost your password?](#)

Installation de phpmyadmin


Bienvenue dans phpMyAdmin

Langue - *Language*

Français - French

Connexion

Utilisateur :

Mot de passe :

Exécuter

Wordpress via php

