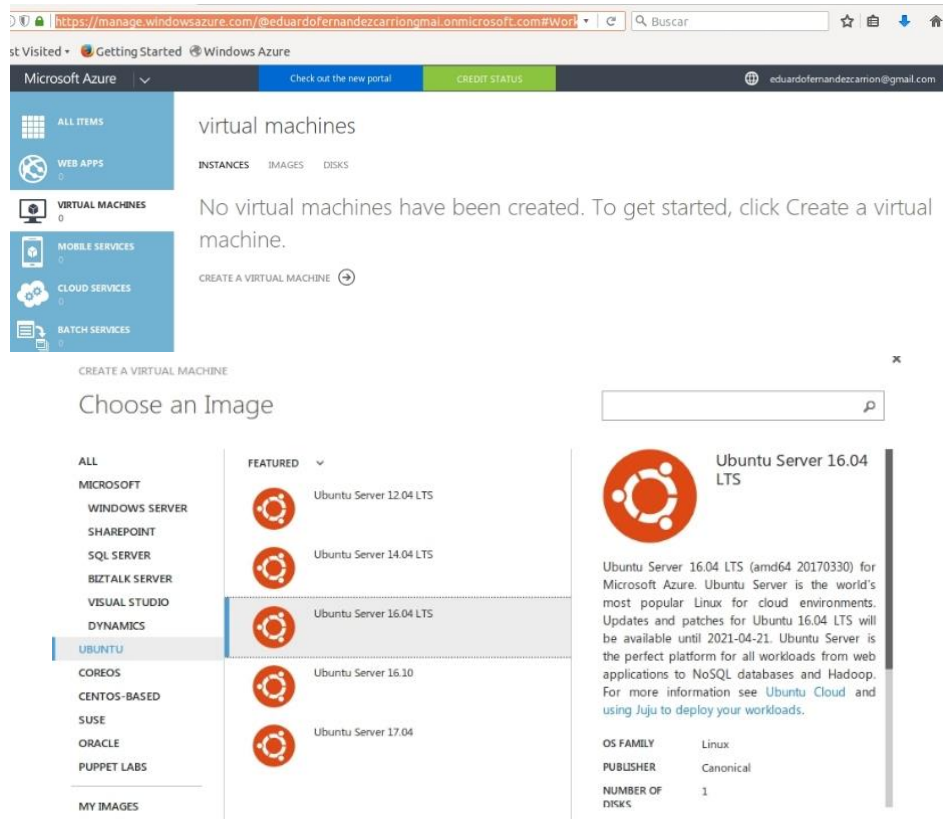


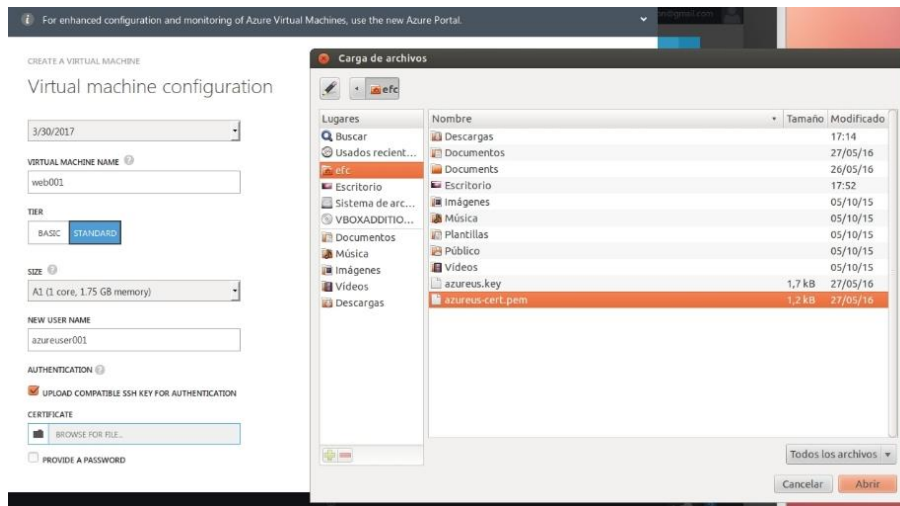
## DESPLIEGUE EN AZURE DESDE UBUNTU

### 1. Creación de la máquina virtual en Azure



### 2. Claves pública-privada en local para acceso remoto, nombre de usuario y de máquina

```
efc@efc-VirtualBox: ~  
efc@efc-VirtualBox:~$ openssl req -x509 -days 365 -newkey rsa:2048 -keyout azureus.key -out azureus-cert.pem  
Generating a 2048 bit RSA private key  
.....++  
.....++  
writing new private key to 'azureus.key'  
Enter PEM pass phrase:  
Verifying - Enter PEM pass phrase:  
-----  
You are about to be asked to enter information that will be incorporated  
into your certificate request.  
What you are about to enter is what is called a Distinguished Name or a DN.  
There are quite a few fields but you can leave some blank  
For some fields there will be a default value,  
If you enter '.', the field will be left blank.  
-----  
Country Name (2 letter code) [AU]:ES  
State or Province Name (full name) [Some-State]:  
Locality Name (eg, city) []:  
Organization Name (eg, company) [Internet Widgits Pty Ltd]:  
Organizational Unit Name (eg, section) []:  
Common Name (e.g. server FQDN or YOUR name) []:  
Email Address []:  
efc@efc-VirtualBox:~$  
  
efc@efc-VirtualBox:~$ ls  
azureus-cert.pem Descargas Escritorio Imágenes  
azureus.key Documentos examples.desktop Música  
efc@efc-VirtualBox:~$ chmod 0600 azureus.key
```



- Apertura de puertos que haremos durante la creación de la MV (se puede hacer más adelante). Creamos un DNS.

CREATE A VIRTUAL MACHINE

## Virtual machine configuration

**CLOUD SERVICE** ?  
 ⚠ You will not be able to select a cloud service below if it is deployed to an affinity group.  
 Create a new cloud service

**CLOUD SERVICE DNS NAME**  
 web0012017 .cloudapp.net

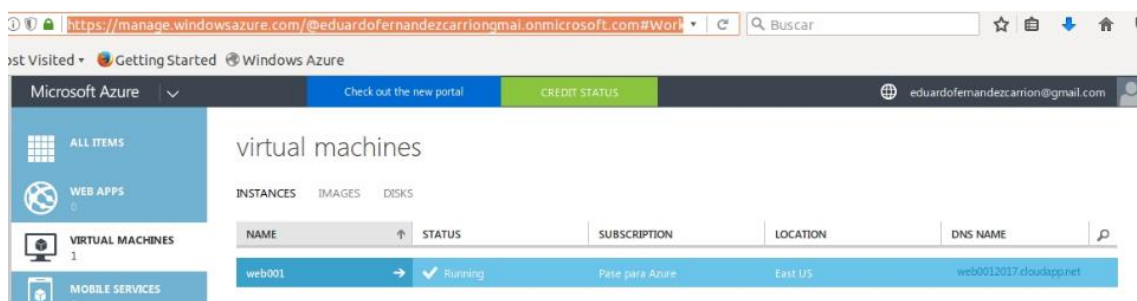
**REGION/VIRTUAL NETWORK** ?  
 East US

**STORAGE ACCOUNT**  
 Use an automatically generated storage account

**AVAILABILITY SET** ?  
 (None)

**ENDPOINTS**

NAME	PROTOCOL	PUBLIC PORT	PRIVATE PORT
SSH	TCP	22	22
HTTP	TCP	80	80
HTTPS	TCP	8443	8443



https://manage.windowsazure.com/@eduardofernandezcarriongmai.onmicrosoft.com#Work

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### web001

DASHBOARD MONITOR ENDPOINTS CONFIGURE

NAME	PROTOCOL	PUBLIC PORT	PRIVATE PORT	LOAD-BALANCED SET NAME
HTTP	TCP	80	80	-
HTTPS	TCP	8443	8443	-
SSH	TCP	22	22	-

https://manage.windowsazure.com/@eduardofernandezcarriongmai.onmicrosoft.com#Work

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### usage overview

WEB001 OTHER ROLES AVAILABLE

1 CORE(S)

WEB001 1 of 20 CORE(S)

### disks

DISK	TYPE	HOST CACHE	VHD
web001-web001-0-2017041...	OS disk	Read/Write	https://6portalvhdsd00nwb...

### extensions

No extensions are installed.

STATUS: Running

DNS NAME: web0012017.cloudapp.net

HOST NAME: web001

PUBLIC VIRTUAL IP (VIP) ADDRESS: 40.71.46.220

INTERNAL IP ADDRESS: 100.65.250.43

SSH DETAILS: web0012017.cloudapp.net : 22

SIZE: Standard\_A1 (1 core, 1.75 GB memory)

SSH CERTIFICATE THUMBPRINT: SHA256Vvc3d161JFaGnDktxOl7wg+978pu zbxTph/CYaBd8

LOCATION: East US

4. Accedemos desde local a la MV de Azure utilizando la clave privada

Virtual machines - Microsoft Azure - Mozilla Firefox (Navegación privada)

Virtual machines - M... +

https://manage.windowsazure.com/@eduardofernandezcarriongmai.onmicrosoft.com#Work

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### usage overview

WEB001 OTHER ROLES AVAILABLE

1 CORE(S)

WEB001 1 of 20 CORE(S)

disks

extensions

No extensions are installed.

STATUS: Running

DNS NAME: web0012017.cloudapp.net

HOST NAME: web001

PUBLIC VIRTUAL IP (VIP) ADDRESS: 40.71.46.220

INTERNAL IP ADDRESS: 100.65.250.43

SSH DETAILS: web0012017.cloudapp.net : 22

SIZE: Standard\_A1 (1 core, 1.75 GB memory)

SSH CERTIFICATE THUMBPRINT: SHA256Vvc3d161JFaGnDktxOl7wg+978pu zbxTph/CYaBd8

LOCATION: East US

```
efc@ubuntu: ~
efc@ubuntu:~$ ls
azureus-cert.pem  azureus.key
efc@ubuntu:~$ ssh -i azureus.key -p 22 azureuser001@web0012017.cloudapp.net
```

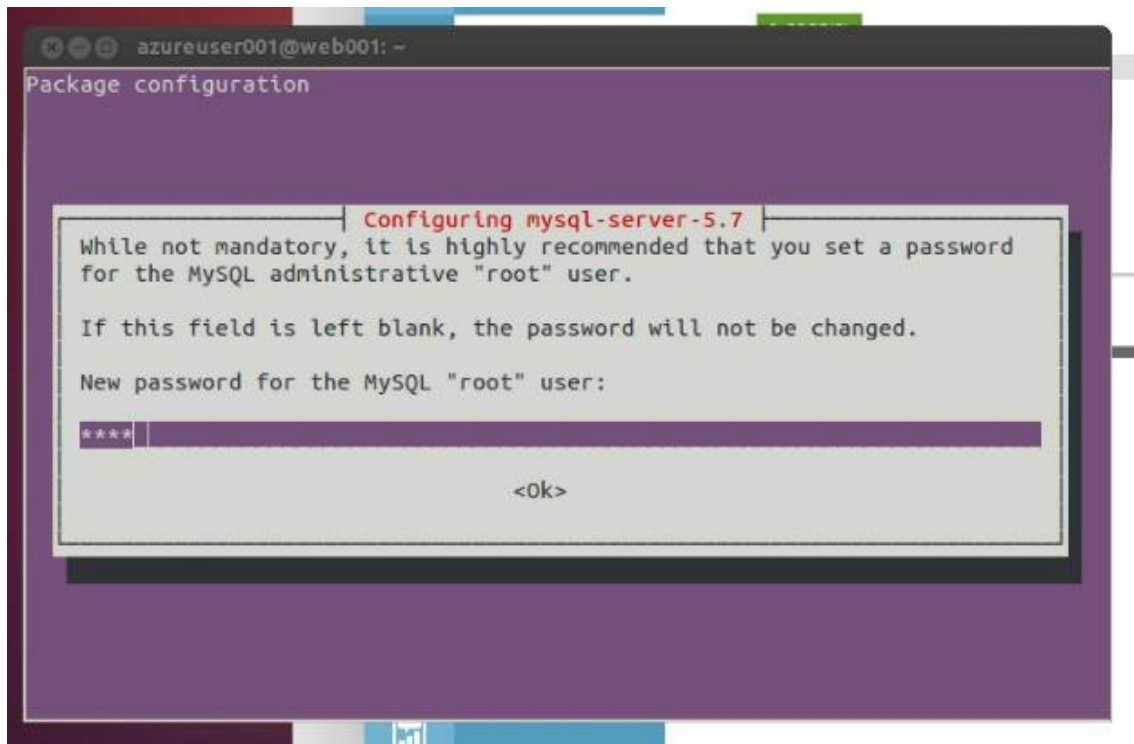
```
Web 0.0.1-  
NAPSHOTSinssl.jar  
azureuser001@web001: ~  
* Documentation: https://help.ubuntu.com  
* Management:   https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
Get cloud support with Ubuntu Advantage Cloud Guest:  
http://www.ubuntu.com/business/services/cloud  
  
0 packages can be updated.  
0 updates are security updates.  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
azureuser001@web001:~$
```

## 5. Configuramos la MV instalando JDK y MySQL

```
azureuser001@web001: ~  
azureuser001@web001:~$ sudo apt-get update
```

```
azureuser001@web001: ~  
azureuser001@web001:~$ sudo apt-get install openjdk-  
openjdk-8-dbg          openjdk-8-jre-headless  openjdk-9-jdk  
openjdk-8-demo         openjdk-8-jre-jamvm    openjdk-9-jdk-headless  
openjdk-8-doc          openjdk-8-jre-zero     openjdk-9-jre  
openjdk-8-jdk          openjdk-8-source       openjdk-9-jre-headless  
openjdk-8-jdk-headless openjdk-9-dbg          openjdk-9-source  
openjdk-8-jre          openjdk-9-demo  
openjdk-8-jre-dcevm    openjdk-9-doc  
azureuser001@web001:~$ sudo apt-get install openjdk-8-jdk-headless
```

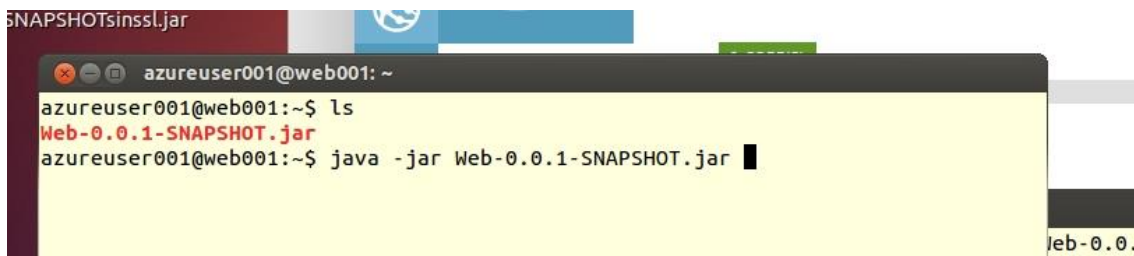
```
NAPSHOTSinssl.jar  
azureuser001@web001: ~  
azureuser001@web001:~$ sudo apt-get install mysql-  
mysql-client          mysql-mmm-monitor      mysql-source-5.7  
mysql-client-5.7      mysql-mmm-tools        mysql-testsuite  
mysql-client-core-5.7 mysql-sandbox          mysql-testsuite-5.7  
mysql-common          mysql-server           mysql-utilities  
mysql-mmm-agent       mysql-server-5.7       mysql-workbench  
mysql-mmm-common      mysql-server-core-5.7  mysql-workbench-data  
azureuser001@web001:~$ sudo apt-get install mysql-  
mysql-client          mysql-mmm-monitor      mysql-source-5.7  
mysql-client-5.7      mysql-mmm-tools        mysql-testsuite  
mysql-client-core-5.7 mysql-sandbox          mysql-testsuite-5.7  
mysql-common          mysql-server           mysql-utilities  
mysql-mmm-agent       mysql-server-5.7       mysql-workbench  
mysql-mmm-common      mysql-server-core-5.7  mysql-workbench-data  
azureuser001@web001:~$ sudo apt-get install mysql-server
```

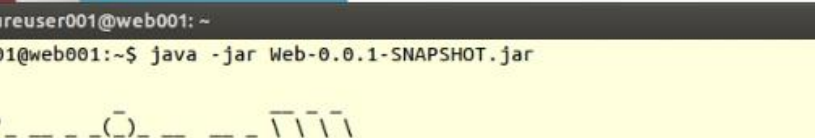


6. Enviamos el fichero \*.jar desde local hasta la MV



7. Desplegamos el paquete





```

azureuser001@web001: ~
azureuser001@web001:~$ java -jar Web-0.0.1-SNAPSHOT.jar

  ____
 /  _ \
(  )_/
W  _ )
'  _/
=====|_||=====|_/=/
:: Spring Boot ::      (v1.4.1.RELEASE)

2017-04-16 16:31:51.351 INFO 7144 --- [main] app.App
7144 (/home/azureuser001/Web-0.0.1-SNAPSHOT.jar started by azureuser001 in /home/azureuser001
2017-04-16 16:31:51.428 INFO 7144 --- [main] app.App
profiles: default
2017-04-16 16:31:51.888 INFO 7144 --- [main] ationConfigEmbeddedWebApplicationCo
dded.AnnotationConfigEmbeddedWebApplicationContext@736e9adb: startup date [Sun Apr 16 16:31:

```