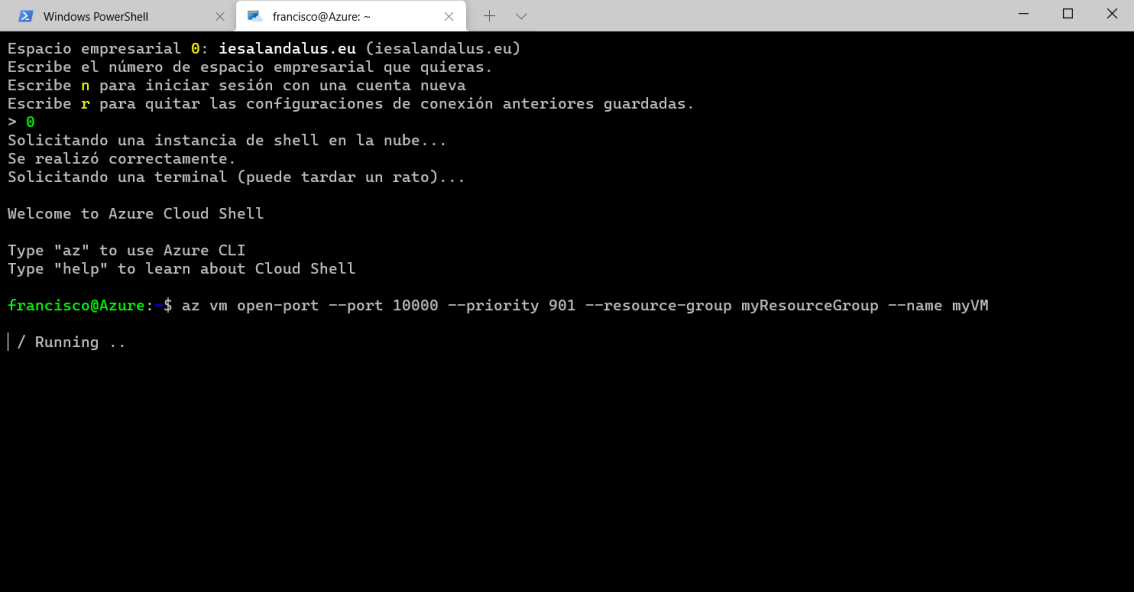


Instalación WebMin en Azure – Francisco Fenoy Martínez

1. Abrimos el puerto necesario en la Máquina Virtual:

```
• az vm open-port --port 10000 --priority 901 --resource-group myResourceGroup --name myVM
```



The screenshot shows a Windows PowerShell terminal window titled 'francisco@Azure: ~'. The terminal displays the following text:

```
Espacio empresarial 0: iesalandalus.eu (iesalandalus.eu)
Escribe el número de espacio empresarial que quieras.
Escribe n para iniciar sesión con una cuenta nueva
Escribe r para quitar las configuraciones de conexión anteriores guardadas.
> 0
Solicitando una instancia de shell en la nube...
Se realizó correctamente.
Solicitando una terminal (puede tardar un rato)...

Welcome to Azure Cloud Shell

Type "az" to use Azure CLI
Type "help" to learn about Cloud Shell

francisco@Azure:~$ az vm open-port --port 10000 --priority 901 --resource-group myResourceGroup --name myVM
| / Running ..
```

2. Nos conectamos por SSH a la MV, pero colocando la IP pública de nuestra MV de Apache:

```
• ssh azureuser@168.62.60.46
```

```
Windows PowerShell
francisco@Azure: ~

"direction": "Inbound",
"etag": "W/\"19fe0421-17eb-4a6f-be0c-6a0852f674bc\"",
"id": "/subscriptions/a83c8240-6ae9-4ffc-alfb-6e0fe8a6e726/resourceGroups/myResourceGroup/providers/Microsoft.Network/networkSecurityGroups/myVMNSG/securityRules/open-port-10000",
"name": "open-port-10000",
"priority": 901,
"protocol": "*",
"provisioningState": "Succeeded",
"resourceGroup": "myResourceGroup",
"sourceAddressPrefix": "*",
"sourceAddressPrefixes": [],
"sourceApplicationSecurityGroups": null,
"sourcePortRange": "*",
"sourcePortRanges": [],
"type": "Microsoft.Network/networkSecurityGroups/securityRules"
}
],
"subnets": null,
"tags": {},
"type": "Microsoft.Network/networkSecurityGroups"
}
francisco@Azure:~$
francisco@Azure:~$ ssh azureuser@20.121.193.32/
ssh: Could not resolve hostname 20.121.193.32/: Name or service not known
francisco@Azure:~$ ssh azureuser@20.121.193.32
The authenticity of host '20.121.193.32 (20.121.193.32)' can't be established.
ECDSA key fingerprint is SHA256:+RoYW0QmCIbIhf2+dAcYa412V0UyV9AzUBIucJy3ii0.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '20.121.193.32' (ECDSA) to the list of known hosts.
```

3. Tanto en la MV de Azure como en la de VirtualBox o VMware, seguiremos los siguientes pasos:
 - Abrimos el archivo de fuentes:
 - `sudo nano /etc/apt/sources.list`

The image shows two screenshots of a Windows PowerShell terminal window. The top screenshot shows the nano text editor editing the file /etc/apt/sources.list. The file content includes a deb line for sarge contrib, followed by several comments and deb lines for bionic main restricted, bionic-updates main restricted, and bionic universe. The bottom screenshot shows the same file after adding a new deb line for sarge contrib at the end. The terminal window title is 'azureuser@myVM: ~'.

```
GNU nano 2.9.3 /etc/apt/sources.list Modified
deb http://download.webmin.com/download/repository sarge contrib

## Note, this file is written by cloud-init on first boot of an instance
## modifications made here will not survive a re-bundle.
## if you wish to make changes you can:
## a.) add 'apt_preserve_sources_list: true' to /etc/cloud/cloud.cfg
## or do the same in user-data
## b.) add sources in /etc/apt/sources.list.d
## c.) make changes to template file /etc/cloud/templates/sources.list.tpl

# See http://help.ubuntu.com/community/UpgradeNotes for how to upgrade to
# newer versions of the distribution.
deb http://azure.archive.ubuntu.com/ubuntu/ bionic main restricted
# deb-src http://azure.archive.ubuntu.com/ubuntu/ bionic main restricted

## Major bug fix updates produced after the final release of the
## distribution.
deb http://azure.archive.ubuntu.com/ubuntu/ bionic-updates main restricted
# deb-src http://azure.archive.ubuntu.com/ubuntu/ bionic-updates main restricted

## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu
## team. Also, please note that software in universe WILL NOT receive any
## review or updates from the Ubuntu security team.
deb http://azure.archive.ubuntu.com/ubuntu/ bionic universe
# deb-src http://azure.archive.ubuntu.com/ubuntu/ bionic universe
File Name to Write: /etc/apt/sources.list
^G Get Help      ^M-D DOS Format  ^M-A Append      ^M-B Backup File
^C Cancel        ^M-M Mac Format  ^M-P Prepend     ^M-T To Files

GNU nano 2.9.3 /etc/apt/sources.list
## Note, this file is written by cloud-init on first boot of an instance
## modifications made here will not survive a re-bundle.
## if you wish to make changes you can:
## a.) add 'apt_preserve_sources_list: true' to /etc/cloud/cloud.cfg
## or do the same in user-data
## b.) add sources in /etc/apt/sources.list.d
## c.) make changes to template file /etc/cloud/templates/sources.list.tpl

# See http://help.ubuntu.com/community/UpgradeNotes for how to upgrade to
# newer versions of the distribution.
deb http://azure.archive.ubuntu.com/ubuntu/ bionic main restricted
# deb-src http://azure.archive.ubuntu.com/ubuntu/ bionic main restricted

## Major bug fix updates produced after the final release of the
## distribution.
deb http://azure.archive.ubuntu.com/ubuntu/ bionic-updates main restricted
# deb-src http://azure.archive.ubuntu.com/ubuntu/ bionic-updates main restricted

## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu
## team. Also, please note that software in universe WILL NOT receive any
## review or updates from the Ubuntu security team.
deb http://azure.archive.ubuntu.com/ubuntu/ bionic universe
# deb-src http://azure.archive.ubuntu.com/ubuntu/ bionic universe
deb http://azure.archive.ubuntu.com/ubuntu/ bionic-updates universe
# deb-src http://azure.archive.ubuntu.com/ubuntu/ bionic-updates universe
[ Read 57 lines ]
^G Get Help      ^O Write Out     ^W Where Is      ^K Cut Text      ^J Justify       ^C Cur Pos       ^M-U Undo        ^M-A Mark Text
^X Exit          ^R Read File     ^\ Replace       ^U Uncut Text    ^T To Spell      ^_ Go To Line     ^M-E Redo        ^M-G Copy Text
```

- Añadimos al final del archivo la siguiente línea:

```
deb http://download.webmin.com/download/repository
sarge contrib
```

```
Windows PowerShell
azurereuser@myVM: ~
* Super-optimized for small spaces - read how we shrank the memory footprint of MicroK8s to make it the smallest full K8s around.

https://ubuntu.com/blog/microk8s-memory-optimisation

3 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Last login: Fri Oct 29 08:25:53 2021 from 40.68.148.23
azurereuser@myVM:~$ sudo nano /etc/apt/sources.list
azurereuser@myVM:~$ wget http://www.webmin.com/jcameron-key.asc
--2021-11-05 09:52:21-- http://www.webmin.com/jcameron-key.asc
Resolving www.webmin.com (www.webmin.com)... 216.105.38.11
Connecting to www.webmin.com (www.webmin.com)[216.105.38.11]:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://www.webmin.com/jcameron-key.asc [following]
--2021-11-05 09:52:22-- https://www.webmin.com/jcameron-key.asc
Connecting to www.webmin.com (www.webmin.com)[216.105.38.11]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1320 (1.3K) [text/plain]
Saving to: 'jcameron-key.asc'

jcameron-key.asc          100%[=====] 1.29K  --.-KB/s  in 0s

2021-11-05 09:52:22 (194 MB/s) - 'jcameron-key.asc' saved [1320/1320]

azurereuser@myVM:~$ sudo apt-key add jcameron-key.asc
OK
azurereuser@myVM:~$ |
```

- Nos descargamos la clave y la añadimos:

```
▪ wget http://www.webmin.com/jcameron-key.asc
▪ sudo apt-key add jcameron-key.asc
```

- Actualizamos el sistema e instalamos Webmin::

```
▪ sudo apt update
▪ sudo apt install webmin
```

```
Windows PowerShell
azurereuser@myVM: ~
azurereuser@myVM:~$ sudo apt-key add jcameron-key.asc
OK
azurereuser@myVM:~$ sudo apt update
Hit:1 http://azure.archive.ubuntu.com/ubuntu bionic InRelease
Hit:2 http://azure.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:3 http://azure.archive.ubuntu.com/ubuntu bionic-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu bionic-security InRelease
Ign:5 http://download.webmin.com/download/repository sarge InRelease
Get:6 http://download.webmin.com/download/repository sarge Release [16.9 kB]
Get:7 http://download.webmin.com/download/repository sarge Release.gpg [173 B]
Get:8 http://download.webmin.com/download/repository sarge/contrib amd64 Packages [1387 B]
Fetched 18.4 kB in 1s (26.8 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
3 packages can be upgraded. Run 'apt list --upgradable' to see them.
azurereuser@myVM:~$ sudo apt install webmin
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libauthen-pam-perl libio-pty-perl libnet-ssleay-perl perl-openssl-defaults unzip
Suggested packages:
  zip
The following NEW packages will be installed:
  libauthen-pam-perl libio-pty-perl libnet-ssleay-perl perl-openssl-defaults unzip webmin
0 upgraded, 6 newly installed, 0 to remove and 3 not upgraded.
Need to get 29.2 MB of archives.
After this operation, 307 MB of additional disk space will be used.
Do you want to continue? [Y/n] |
```

- Abrimos el puerto 10000 en el cortafuegos de Linux:

```
▪ sudo ufw allow 10000
```

```
Processing triggers for systemd (237-3ubuntu10.52) ...
azureuser@myVM:~$ sudo ufw allow 10000
Rules updated
Rules updated (v6)
azureuser@myVM:~$ |
```

- Creamos un usuario para Webmin y le damos un password:

```
Windows PowerShell
x azureuser@myVM: ~
Selecting previously unselected package libauthen-pam-perl.
Preparing to unpack .../2-libauthen-pam-perl_0.16-3build5_amd64.deb ...
Unpacking libauthen-pam-perl (0.16-3build5) ...
Selecting previously unselected package libio-pty-perl.
Preparing to unpack .../3-libio-pty-perl_1%3a1.08-1.1build4_amd64.deb ...
Unpacking libio-pty-perl (1:1.08-1.1build4) ...
Selecting previously unselected package unzip.
Preparing to unpack .../4-unzip_6.0-21ubuntu1.1_amd64.deb ...
Unpacking unzip (6.0-21ubuntu1.1) ...
Selecting previously unselected package webmin.
Preparing to unpack .../5-webmin_1.981_all.deb ...
Unpacking webmin (1.981) ...
Setting up libauthen-pam-perl (0.16-3build5) ...
Setting up libio-pty-perl (1:1.08-1.1build4) ...
Setting up perl-openssl-defaults:amd64 (3build1) ...
Setting up unzip (6.0-21ubuntu1.1) ...
Setting up libnet-ssleay-perl (1.84-1ubuntu0.2) ...
Setting up webmin (1.981) ...
Webmin install complete. You can now login to https://myVM:10000/
as root with your root password, or as any user who can use sudo
to run commands as root.
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for mime-support (3.60ubuntu1) ...
Processing triggers for ureadahead (0.100.0-21) ...
Processing triggers for systemd (237-3ubuntu10.52) ...
azureuser@myVM:~$ sudo ufw allow 10000
Rules updated
Rules updated (v6)
azureuser@myVM:~$ sudo service webmin stop sudo useradd -g sudo usuario sudo passwd usuario sudo service webmin start
azureuser@myVM:~$ |
```

```
▪ sudo service webmin stop
▪ sudo useradd -g sudo webminuser
▪ sudo passwd webminuser
▪ sudo service webmin start
```

- Para comprobar que nuestro servidor está ya escuchando, introducimos en un navegador la URL con la IP pública de nuestra MV:

