Acceso de red a una máquina virtual

Creación de Máquina Virtual

Configuración de Nginx y establecer la página principal

Obtención de IP e intento de conexión

```
javier@Azure:~$ IPADDRESS="$(az vm list-ip-addresses \
>   --resource-group learn-1d999c6f-e772-47de-bde8-e61fc6a105e1 \
>   --name my-vm \
>   --query "[].virtualMachine.network.publicIpAddresses[*].ipAddress" \
>   --output tsv)"
javier@Azure:~$ curl --connect-timeout
curl: option --connect-timeout: requires parameter
curl: try 'curl --help' or 'curl --manual' for more information
javier@Azure:~$ curl --connect-timeout 5 hhtp://$IPADDRESS
curl: (1) Protocol "hhtp" not supported or disabled in libcurl
javier@Azure:~$ curl --connect-timeout 5 http://$IPADDRESS
curl: (28) Connection timed out after 5001 milliseconds
javier@Azure:~$
```
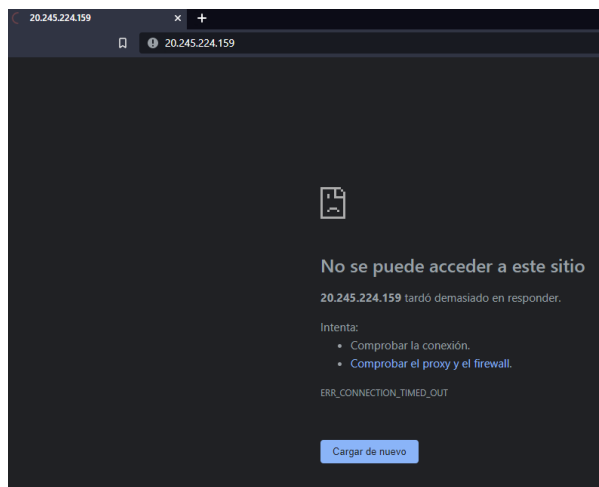

Grupo de seguridad y sus reglas

```
javier@Azure:~$ az network nsg list \
>   --resource-group learn-1d999c6f-e772-47de-bde8-e61fc6a105e1 \
>   --query '[].name' \
>   --output tsv

my-vmNSG
javier@Azure:~$
javier@Azure:~$ az network nsg rule list \
>   --resource-group learn-1d999c6f-e772-47de-bde8-e61fc6a105e1 \
>   --nsg-name my-vmNSG
[
  {
    "access": "Allow",
    "description": null,
    "destinationAddressPrefix": "*",
    "destinationAddressPrefixes": [],
    "destinationApplicationSecurityGroups": null,
    "destinationPortRange": "22",
    "destinationPortRanges": [],
    "direction": "Inbound",
    "etag": "W/\"25c2cb91-1697-4fcb-bf29-7ff5209fdd1f\"",
    "id": "/subscriptions/293caa52-ebff-42e6-9e6f-48771148aeed/resourceGroups/learn-1d999c6f-e772-47de-bde8-e61fc6a105e1/providers/Mic
rosoft.Network/networkSecurityGroups/my-vmNSG/securityRules/default-allow-ssh",
    "name": "default-allow-ssh",
    "priority": 1000,
    "protocol": "Tcp",
    "provisioningState": "Succeeded",
    "resourceGroup": "learn-1d999c6f-e772-47de-bde8-e61fc6a105e1",
    "sourceAddressPrefix": "*",
    "sourceAddressPrefixes": [],
    "sourceApplicationSecurityGroups": null,
    "sourcePortRange": "*",
    "sourcePortRanges": [],
    "type": "Microsoft.Network/networkSecurityGroups/securityRules"
  }
]
javier@Azure:~$
```

Se muestra la regla *default-allow-ssh*

Se leen el nombre *(default-allow-ssh)*, su prioridad (*1000*) que en este caso es baja, el puerto (*22*) y el acceso (*Allow*)

```
javier@Azure:~$ az network nsg rule list \
>    --resource-group learn-1d999c6f-e772-47de-bde8-e61fc6a105e1 \
>    --nsg-name my-vmNSG \
>    --query '[].{Name:name, Priority:priority, Port:destinationPortRange, Access:access}' \
>    --output table
Name              Priority    Port    Access
----------------  ----------  ------  --------
default-allow-ssh  1000        22      Allow
javier@Azure:~$
```

Creación de una nueva regla llamada *allow-http* que permite el acceso Enel puerto *80*

```
javier@Azure:~$ az network nsg rule create \
>    --resource-group learn-1d999c6f-e772-47de-bde8-e61fc6a105e1 \
>    --nsg-name my-vmNSG \
>    --name allow-http \
>    --protocol tcp \
>    --priority 100 \
>    --destination-port-ranges 80 \
>    --access Allow
{
  "access": "Allow",
  "description": null,
  "destinationAddressPrefix": "*",
  "destinationAddressPrefixes": [],
  "destinationApplicationSecurityGroups": null,
  "destinationPortRange": "80",
  "destinationPortRanges": [],
  "direction": "Inbound",
  "etag": "W/\"9538324f-00b9-4514-b906-6239cb684094\"",
  "id": "/subscriptions/293caa52-ebff-42e6-9e6f-48771148aeed/resourceGroups/learn-1d999c6f-e772-47de-bde8-e61fc6a105e1/providers/Micro
soft.Network/networkSecurityGroups/my-vmNSG/securityRules/allow-http",
  "name": "allow-http",
  "priority": 100,
  "protocol": "Tcp",
  "provisioningState": "Succeeded",
  "resourceGroup": "learn-1d999c6f-e772-47de-bde8-e61fc6a105e1",
  "sourceAddressPrefix": "*",
  "sourceAddressPrefixes": [],
  "sourceApplicationSecurityGroups": null,
  "sourcePortRange": "*",
  "sourcePortRanges": [],
  "type": "Microsoft.Network/networkSecurityGroups/securityRules"
}
javier@Azure:~$ az network nsg rule list \
>    --resource-group learn-1d999c6f-e772-47de-bde8-e61fc6a105e1 \
>    --nsg-name my-vmNSG \
>    --query '[].{Name:name, Priority:priority, Port:destinationPortRange, Access:access}' \
>    --output table
Name              Priority    Port    Access
----------------  ----------  ------  --------
default-allow-ssh  1000        22      Allow
allow-http         100         80      Allow
javier@Azure:~$
```

Acceso al servidor

```
javier@Azure:~$ curl --connect-timeout 5 http://$IPADDRESS
<html><body><h2>Welcome to Azure! My name is my-vm.</h2></body></html>
javier@Azure:~$
```

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Welcome to Azure! My name is my-vm.