

## Práctica 7.

Creamos una máquina virtual scale set.

### Create a virtual machine scale set

your resources.

Subscription \* ▼ Azure subscription 1

Resource group \* ▼ (New) VMSS  
[Create new](#)

#### Scale set details

Virtual machine scale set name \* ▼ VM ✓

Region \* ▼ (Europe) West Europe

Availability zone ⓘ ▼ None

#### Orchestration

A scale set has a "scale set model" that defines the attributes of virtual machine instances (size, number of data disks, etc). As the number of instances in the scale set changes, new instances are added based on the scale set model.  
[Learn more about the scale set model](#)


Orchestration mode \* ⓘ

☐ **Flexible:** achieve high availability at scale with identical or multiple virtual machine types

☒ **Uniform:** optimized for large scale stateless workloads with identical instances

Security type ⓘ ▼ Standard


#### Instance details

Image \* ⓘ ▼  Windows Server 2016 Datacenter - x64 Gen2  
[See all images](#) | [Configure VM generation](#)

VM architecture ⓘ

☐ Arm64

☒ x64

 Arm64 is not supported with the selected image.

## Create a virtual machine scale set

application. [Learn more about VMSS scaling](#)

Initial instance count \* ⓘ

1



### Scaling

Scaling policy ⓘ



Manual



Custom

Minimum number of instances \* ⓘ

1

Maximum number of instances \* ⓘ

10

### Scale out

CPU threshold (%) \* ⓘ

30



Duration in minutes \* ⓘ

5



Number of instances to increase by \* ⓘ

1



### Scale in

CPU threshold (%) \* ⓘ

25



Number of instances to decrease by \* ⓘ

1



### Predictive autoscaling (preview)

Enable predictive autoscaling forecast ⓘ



### Diagnostic logs

Collect diagnostic logs from Autoscale ⓘ



Diagnostic logs workspace \* ⓘ

No workspaces in current subscription.



[Choose Workspace from different subscription](#)

### Scale-In policy

### Virtual network configuration

Azure Virtual Network (VNet) enables many types of Azure resources to securely communicate with each other, the internet, and on-premises networks. [Learn more about VNets](#)

Virtual network \* ⓘ

(New) VMSS-vnet (recommended)

[Create virtual network](#)

### Network interface

A network interface enables an Azure virtual machine to communicate with internet, Azure, and on-premises resources. A VM can have one or more network interfaces.

[+ Create new nic](#) [Delete](#)

<input type="checkbox"/>	NAME	CREATE PUBLI...	SUBNET	NETWORK SECU...	ACCELERATED N...	
<input type="checkbox"/>	VMSS-vnet-nic01	No	default (10.1.0.0/20)	Basic	Off	<a href="#">✎</a>

### Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Load balancing options ⓘ

- ☐ None
- ☒ **Azure load balancer**  
Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.
- ☐ **Application gateway**  
Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.

**⚠ To allow traffic from your load balancing product, please update the appropriate port configuration on your network security group associated with your network interface.**

Select a load balancer \* ⓘ

(new) virtualLoadBalancer

[Create a load balancer](#)

Creamos una subnet para poder usar bastion

Home > VMSS > VM | Instances > VM\_0

## VM\_0 | Bastion

Scale set instance

Search

Overview

Settings

- Networking
- Connect
- Disks
- Properties

Monitoring

- Insights
- Metrics

Support + troubleshooting

- Bastion

Azure Bastion Service enables you to securely and seamlessly RDP & SSH to your VMs in your Azure virtual network, without exposing a public IP on the VM, directly from the Azure portal, without the need of any additional client/agent or any piece of software. [Learn more](#)

### Create Bastion

Name	VMSS-vnet-bastion
Resource group	VMSS
Virtual network	VMSS-vnet
Public IP address	VMSS-vnet-ip

Bastion pricing starts with an hourly base rate. [Learn more](#)

Creating a new Bastion 'VMSS-vnet-bastion'.

Create Azure Bastion using defaults I want to configure Azure Bastion on my own

Home > VM\_0

## VM\_0 | Bastion

Scale set instance

Search

Overview

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Support + troubleshooting

- Bastion
- Serial console
- Boot diagnostics
- Diagnose and solve problems
- New support request

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Using Bastion: **VMSS-vnet-bastion**, Provisioning State: **Succeeded**

Please enter username and password to your virtual machine to connect using Bastion.

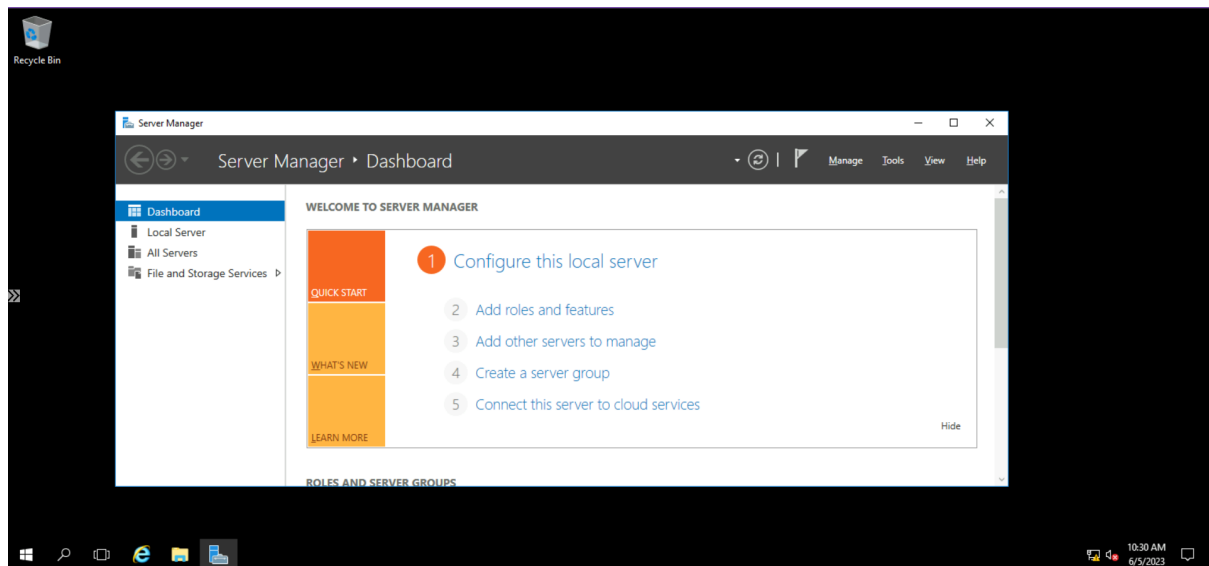
### Connection Settings

Username	adminazure ✓
Authentication Type	Password ▼
Password	<div>The value must not be empty. For security purposes, Azure Bastion does not store the password of the local VM. Please input the password to reestablish connectivity.</div>

Show

☒ Open in new browser tab

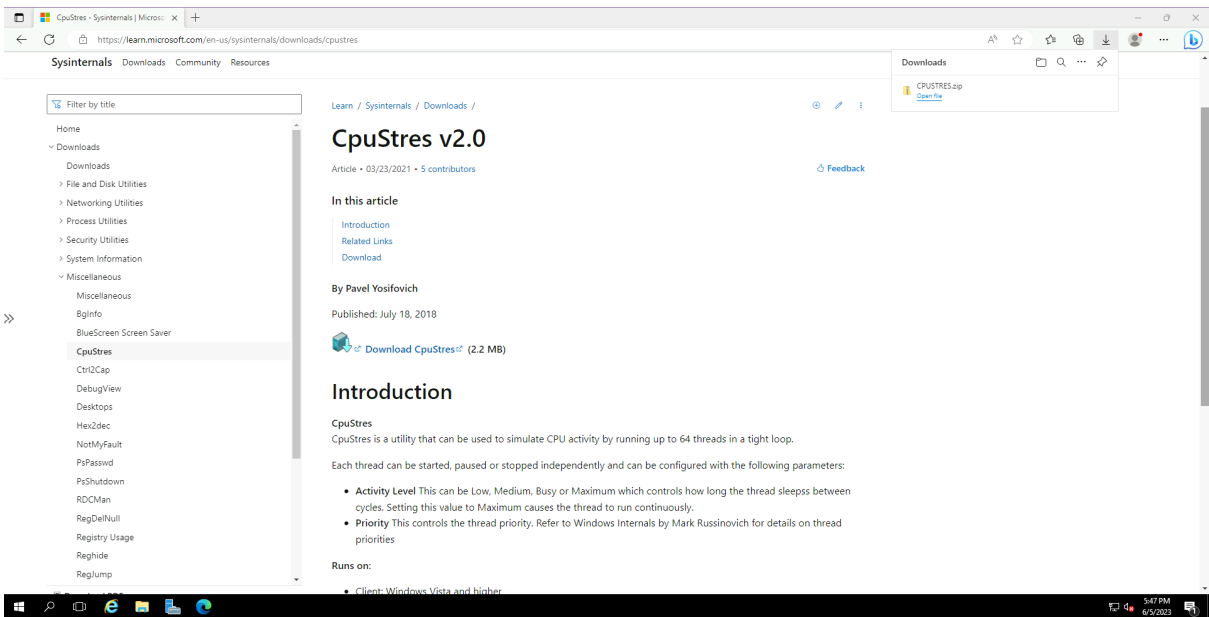
Después si todo va correctamente la instancia de la máquina virtual se abrirá en una pestaña nueva en el navegador.



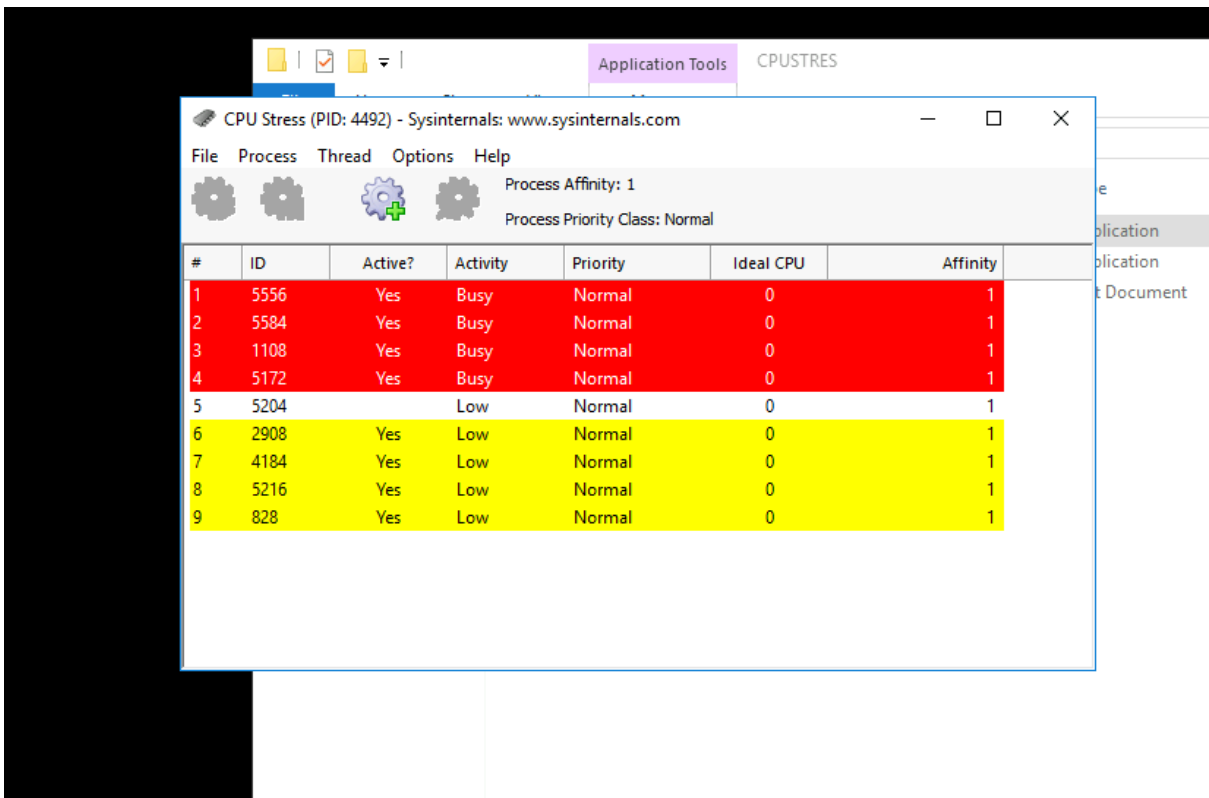
Para poder tener acceso a internet hay que crear una nueva regla.

A screenshot of the Azure portal configuration page for a VMSS\_LOADBALANCER. The page title is "VMSS\_LOADBALANCER" with a subtitle "vmssloadbalancer". The configuration is as follows: Name is "VMSS\_BALANCE"; IP Version is "IPv4" (selected); Frontend IP address is "1 selected"; Protocol is "All" (selected); Idle timeout (minutes) is a slider set to "4" with a "Max: 100" label; TCP Reset is "Enabled" (selected); Backend pool is "bepool (3 instances)"; Port allocation is "Use the default number of outbound ports". At the bottom, there is a warning icon and text: "Azure may drop existing connections when you scale out. Manually allocate ports to avoid dropped connections."

Después de esa modificación la máquina virtual tendrá acceso a internet.



Creamos procesos de distintas cargas para forzar el escalado de la máquina.



Home > VM

## VM | Instances

Virtual machine scale set

Start Restart Stop Reimage Delete Refresh Protection Policy

Search virtual machine instances

Instance	Computer name	Status
<input type="checkbox"/> VM_0	vmdbulyyx000000	Running
<input type="checkbox"/> VM_3	vmdbulyyx000003	Running
<input type="checkbox"/> VM_4	vmdbulyyx000004	Running
<input type="checkbox"/> VM_5	vmdbulyyx000005	Running

Se han creado 3 instancias nuevas.