

INNOVACIÓN VIRTUAL



Inteligencia Artificial

Nombre:

Contreras Ortiz Miguel

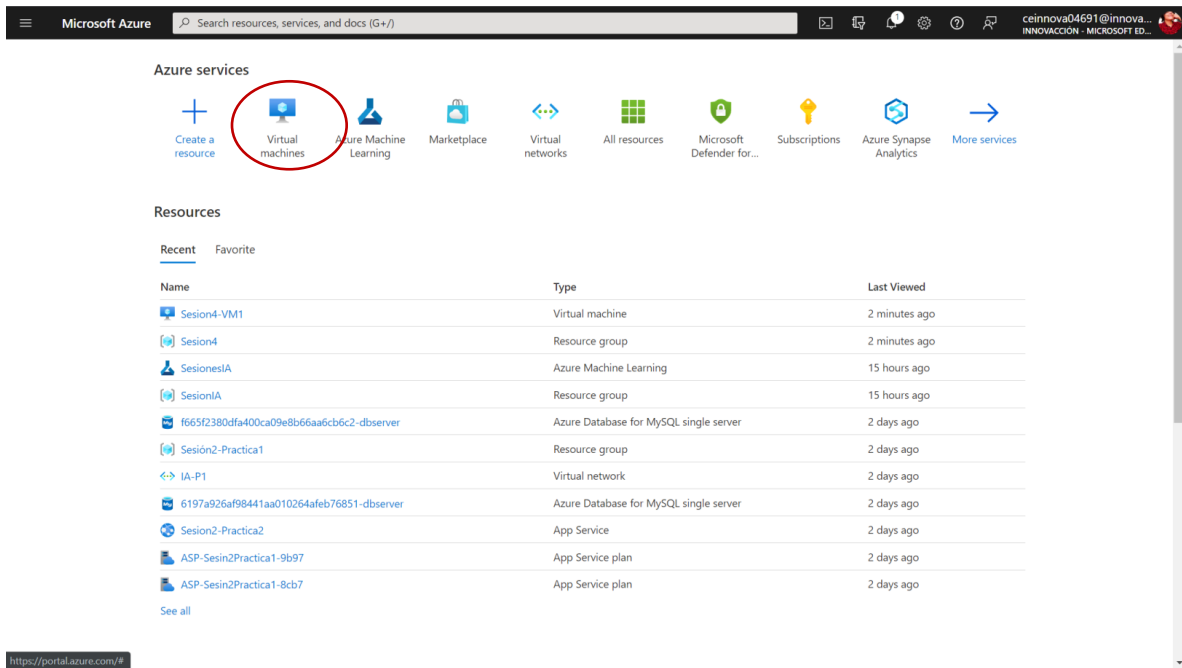
Nombre del sherpa: *José Jesús Guzmán Eusebio*

Semana 2: *Recursos de computo - Azure*

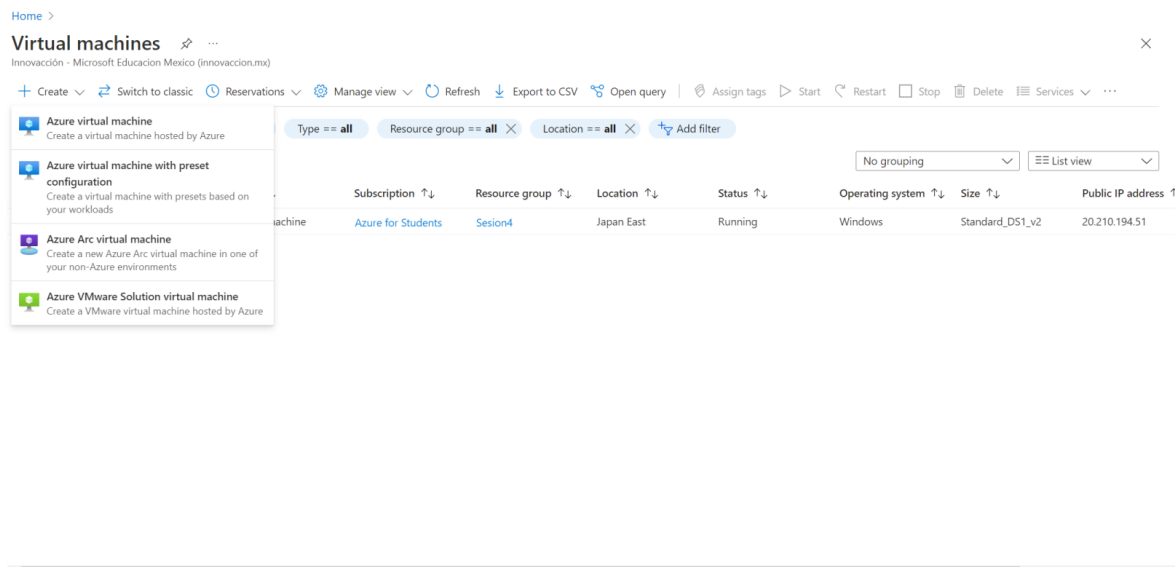
Grupo: *IA* **Tópico:** *Practica #3*

Fecha de entrega: *Miercoles, 1 de Junio del 2022*

En esta tercera práctica, vamos a seleccionar Virtual Machine



Ya dentro, le damos a crear y seleccionamos la primera opción



Llenamos los campos que nos piden (group, name y region) e ingresamos con un usuario

[Home](#) > [Virtual machines](#) >

Create a virtual machine

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Advanced](#) [Tags](#) [Review + create](#)

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *
Resource group *
[Create new](#)

Instance details

Virtual machine name *
Region *
Availability options
Security type
Image *
[See all images](#) | [Configure VM generation](#)
Azure Spot instance ☐

[Review + create](#)

[< Previous](#)

[Next: Disks >](#)

Le damos a Review y luego a Create

[Home](#) > [Virtual machines](#) >

Create a virtual machine

✓ Validation passed

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Advanced](#) [Tags](#) [Review + create](#)

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

PRODUCT DETAILS

1 X Standard DS1 v2
by Microsoft
[Terms of use](#) | [Privacy policy](#)
Subscription credits apply
0.1020 USD/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Basics

Subscription
Resource group
Azure for Students
Sesion4

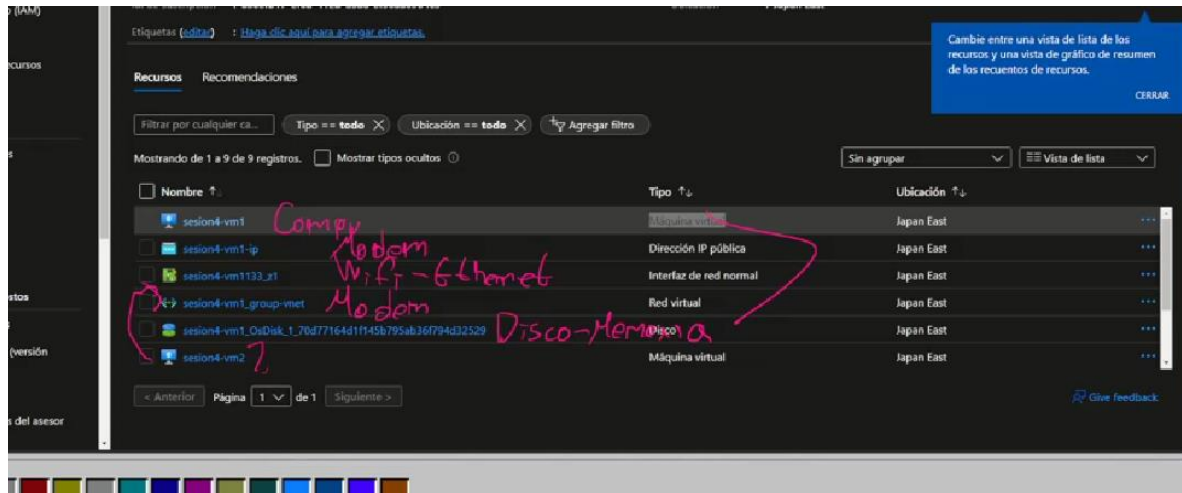
[Create](#)

[< Previous](#)

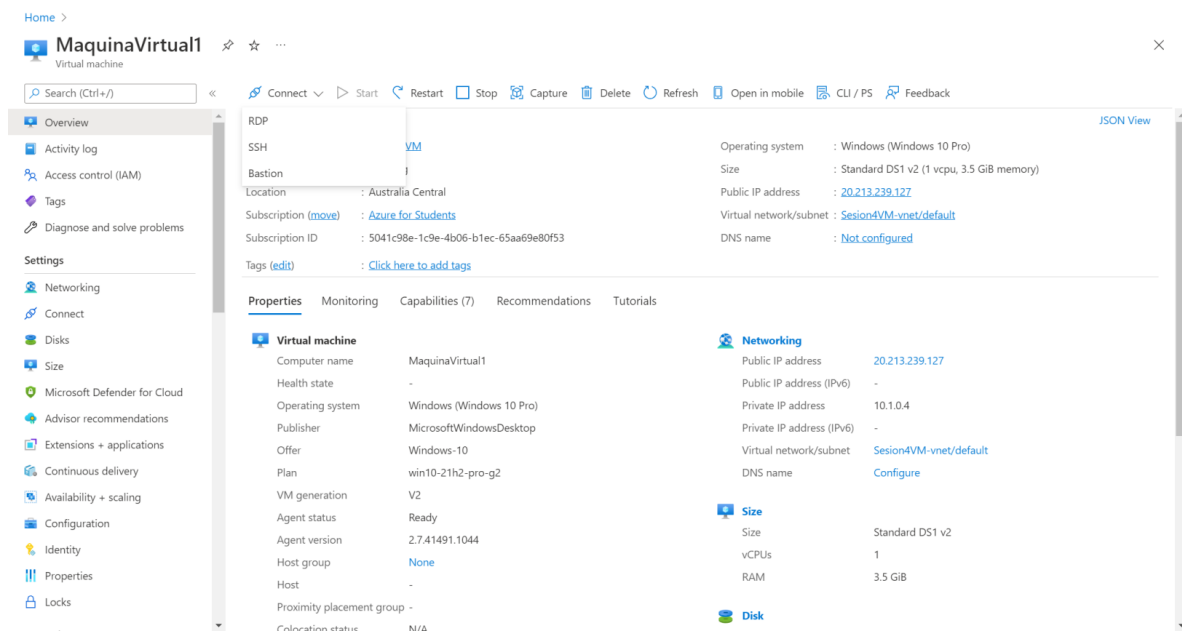
[Next >](#)

[Download a template for automation](#)

(Lo que contiene una VM)



Ya dentro, damos la conexión mediante RDP



Le damos y descargamos el archivo

RDPSSH Bastion

Connect with RDP

To connect to your virtual machine via RDP, select an IP address, optionally change the port number, and download the RDP file.

IP address *

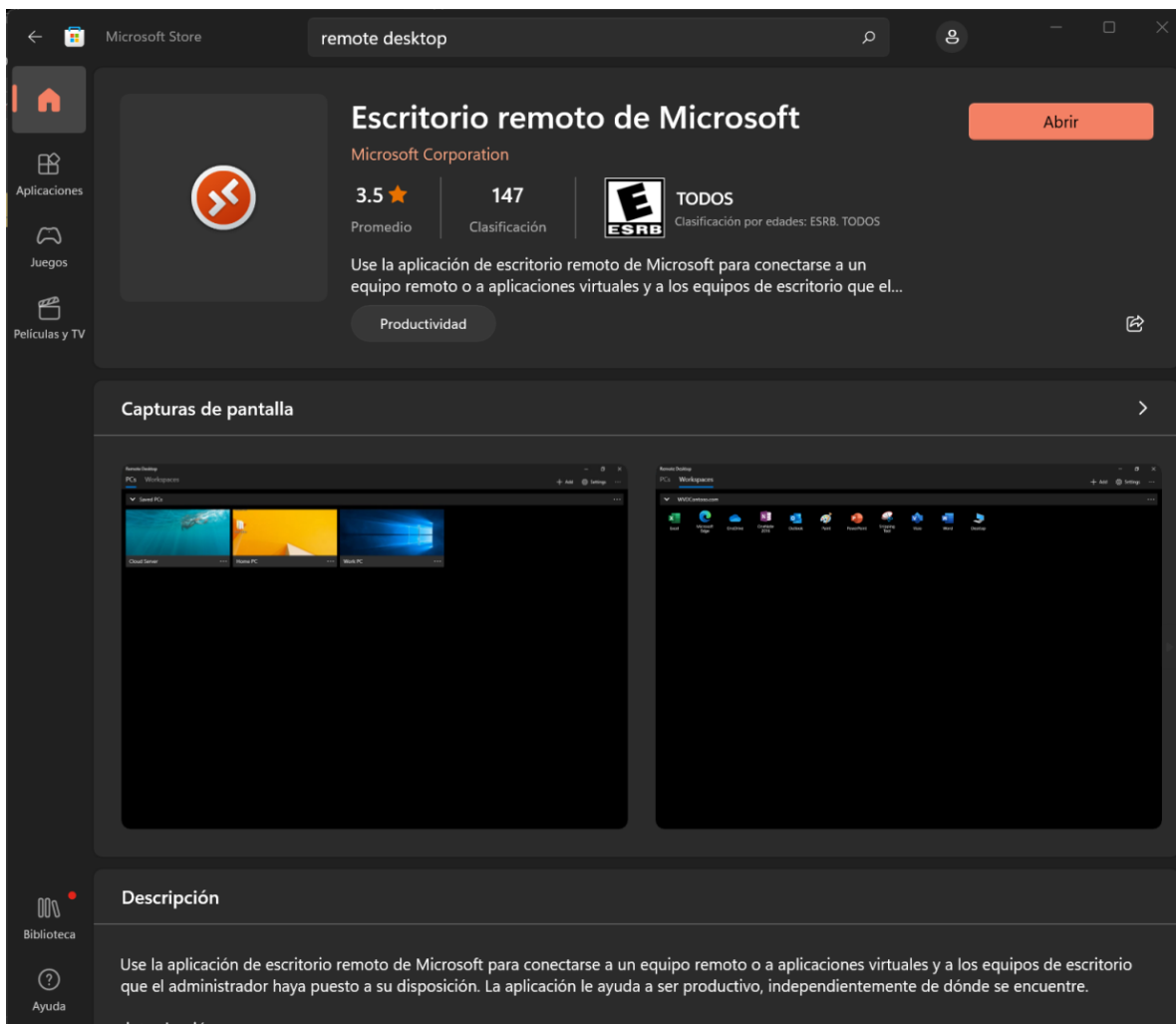
Public IP address (20.213.239.127) ✓

Port number *

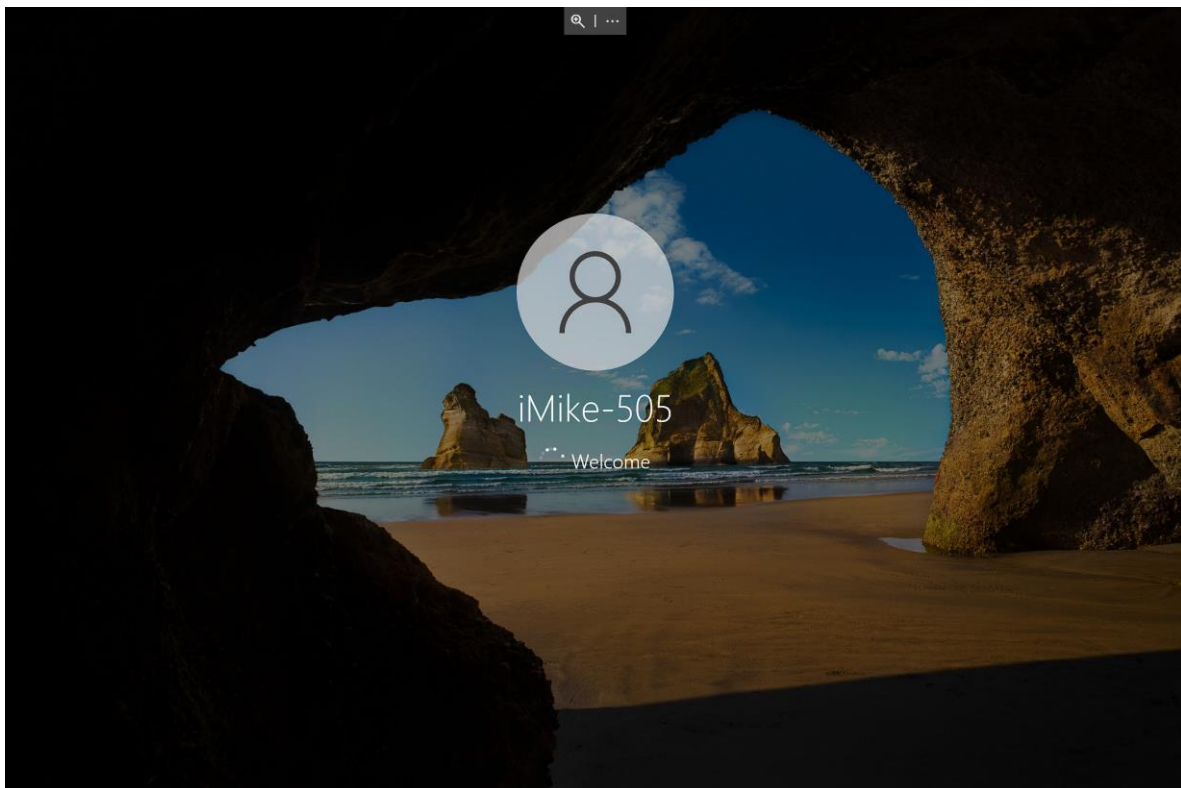
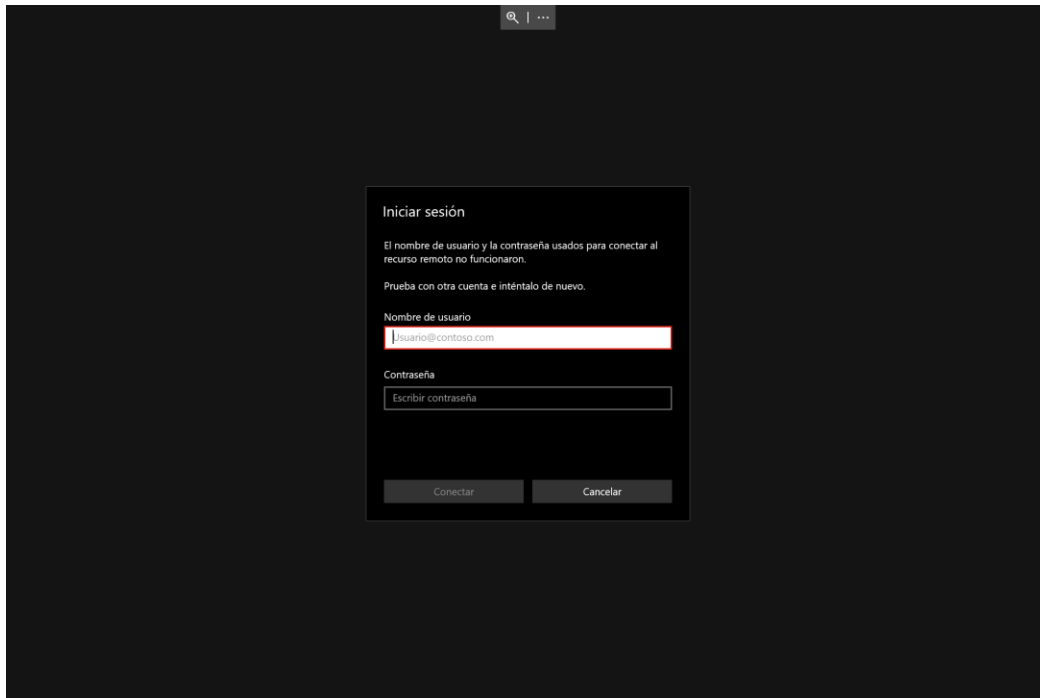
3389

Download RDP File

Nos dirigimos a la tienda de Microsoft y buscamos “Escritorio remoto de Microsoft” y lo descargamos



Luego de descargar el programa, abrimos el archivo RDP el cual nos va a pedir en iniciar sesión con la cuenta anteriormente hecha



En redes vamos a

maquinavirtual1572

IP configuration ⓘ
ipconfig1 (Primary)

Network Interface: maquinavirtual1572 [Effective security rules](#) [Troubleshoot VM connection issues](#) [Topology](#)
Virtual network/subnet: **Sesion4VM-vnet/default** NIC Public IP: **20.213.239.127** NIC Private IP: **10.1.0.4** Accelerated networking: **Enabled**

Inbound port rules Outbound port rules Application security groups Load balancing

Network security group **MaquinaVirtual1-nsg** (attached to network interface: **maquinavirtual1572**)
Impacts 0 subnets, 1 network interfaces [Add inbound port rule](#)

Priority	Name	Port	Protocol	Source	Destination	Action
300	⚠ RDP	3389	TCP	Any	Any	✓ Allow ***
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	✓ Allow ***
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	✓ Allow ***
65500	DenyAllInBound	Any	Any	Any	Any	✗ Deny ***

Need help?
[Understand Azure load balancing ⓘ](#)
[Quickstart: Create a public load balancer to load balance Virtual Machines ⓘ](#)
[Quickstart: Direct web traffic with Azure Application Gateway ⓘ](#)

Y seleccionamos Connected devices, en el que podemos ver las VM conectadas a la red

Home > **Sesion4VM-vnet** Virtual network

Search (Ctrl+/) << → Move Delete Refresh Give feedback

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings**
 - Address space
 - Connected devices**
 - Subnets
 - Bastion
 - DDoS protection
 - Firewall
 - Microsoft Defender for Cloud
 - Network manager
 - DNS servers
 - Peering
 - Service endpoints
 - Private endpoints
 - Properties
 - Links

Essentials

Resource group (move) : **Sesion4VM** Address space : 10.1.0.0/16
Location (move) : **Australia Central** DNS servers : **Azure provided DNS service**
Subscription (move) : **Azure for Students** Flow timeout : **Configure**
Subscription ID : 5041c98e-1c9e-4b06-b1ec-65aa69e80f53 BGP community string : **Configure**
Virtual network ID : 83f0196c-d3c8-495f-b456-200e1d272b71

Tags (edit) : [Click here to add tags](#)

Topology **Capabilities (5)** Recommendations Tutorials

- DDoS protection**
Configure additional protection from distributed denial of service
● Not configured
- Azure Firewall**
Protect your network with a stateful L3-L7 firewall.
● Not configured
- Peering**
Seamlessly connect two or more virtual networks.
● Not configured
- Security**
Filter network traffic to and from Azure resources.
- Private endpoints**
Privately access Azure services without sending traffic across
● Not configured

Refresh

Search connected devices

Device ↑↓	Type ↑↓	IP Address ↑↓	Subnet ↑↓
maquinavirtual1572	Network interface	10.1.0.4	default
maquinavirtual2477	Network interface	10.1.0.5	default

(Dentro de la VM)

Internet Speed Test | Fast.com

Search connected devices

Device ↑↓ Type ↑↓ IP Address ↑↓ Subnet ↑↓

maquinavirtual1572 Network interface 10.1.0.4 default

maquinavirtual2477 Network interface 10.1.0.5 default

FAST

Your Internet speed is

580 Mbps

Latency

Unloaded 361 ms

Loaded 376 ms

Upload Speed 9.8 Mbps

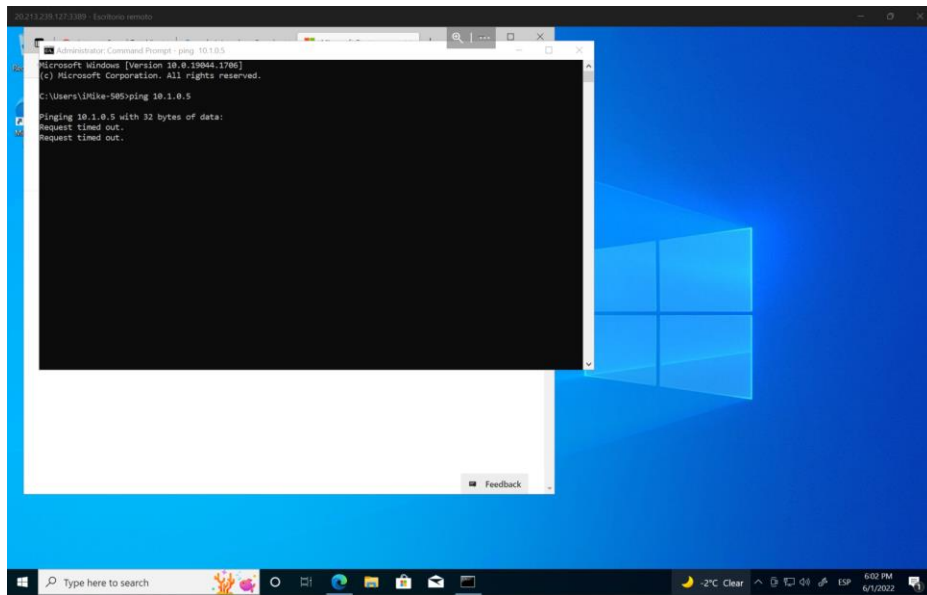
Client Canberra, AU 20.213.239.127 Server(s) Valparaiso, CL | Ciudad de Buenos Aires, AR

Settings 1250MB 10MB

Windows 10 desktop background

Taskbar: Type here to search, -2°C Clear, 6:00 PM 6/1/2022

Le mandamos un ping a la otra maquina virtual en cmd con “ping (IP)”



Ingresamos al PowerShell para establecer la conexión con la otra VM

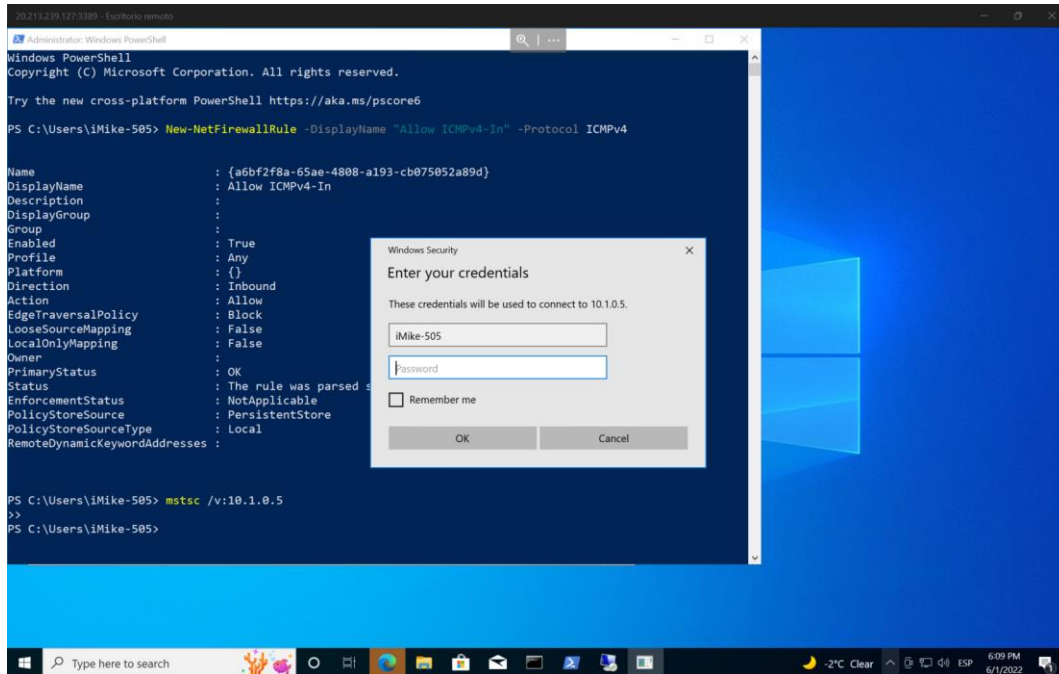
```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\iMike-505> New-NetFirewallRule -DisplayName "Allow ICMPv4-In" -Protocol ICMPv4

Name                           : {a6bf2f8a-65ae-4808-a193-cb075052a89d}
DisplayName                     : Allow ICMPv4-In
Description                     :
DisplayGroup                    :
Group                           :
Enabled                         : True
Profile                         : Any
Platform                       : {}
Direction                      : Inbound
Action                         : Allow
EdgeTraversalPolicy             : Block
LooseSourceMapping              : False
LocalOnlyMapping                : False
Owner                           :
PrimaryStatus                   : OK
Status                         : The rule was parsed successfully from the store. (65536)
EnforcementStatus               : NotApplicable
PolicyStoreSource               : PersistentStore
PolicyStoreSourceType           : Local
RemoteDynamicKeywordAddresses  :
```

Ingresamos a la otra máquina virtual mediante el comando “mstsc /v: (IP)”



Iniciamos sesión y así tenemos una máquina virtual, dentro de una máquina virtual.

