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	VIRTUAL NETWORKS – ASSOCIAR O NSG DA SUBNET (SNET-HML02) DESASSOCIA / ASSOCIAR IP PUBLICO NAS VMS			
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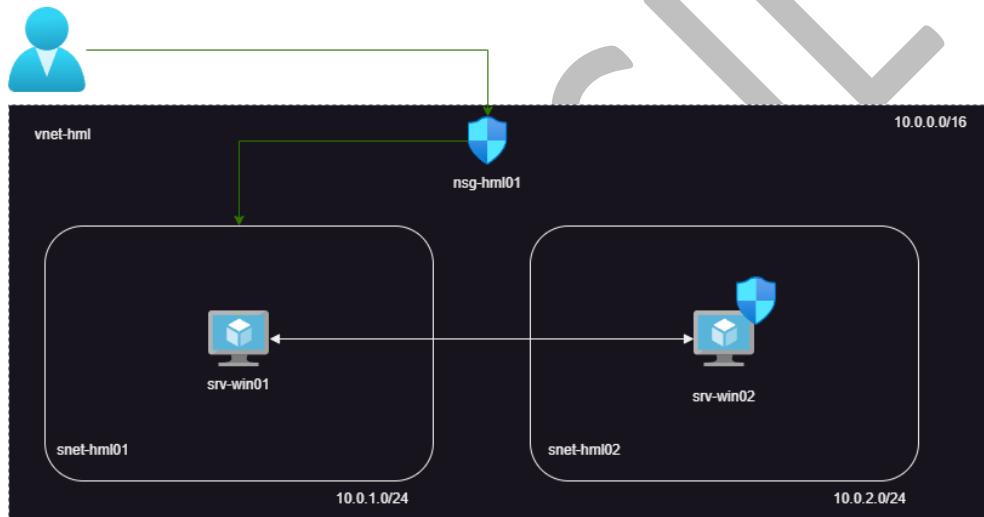
## 1. OBJETIVO:

Delinear passos para associar a *subnet-hml02* ao NSG (*nsg-hml01*) tirando o NSG local que está na placa de rede da máquina virtual *srv-win02*.

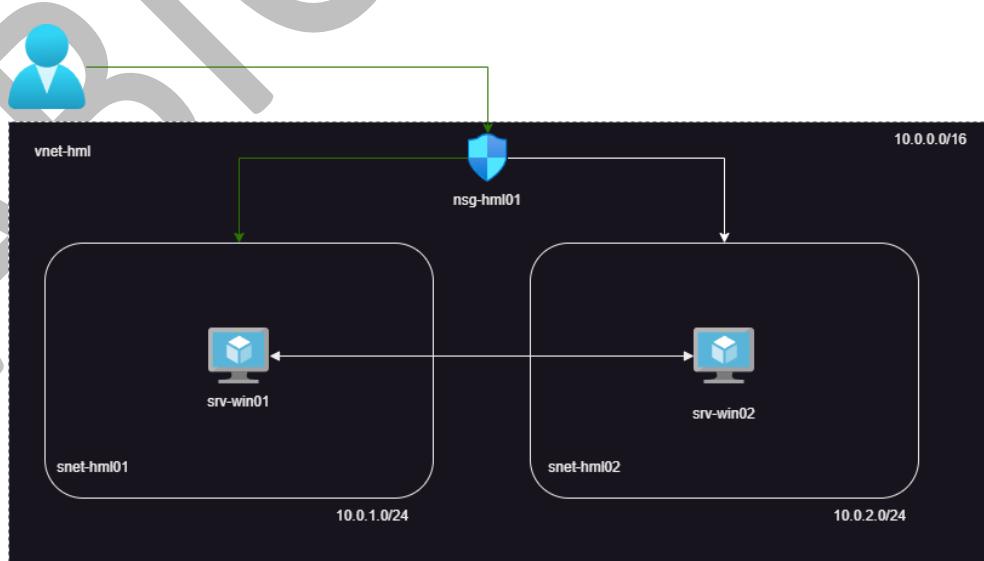
Em seguida será removido o IP público da VM *srv-win02* e associar um novo IP público.

## 2. ATIVIDADES:

Atualmente a estrutura da VNET-HML o NSG-HML01 está associado a subnet (*snet-hml01*).



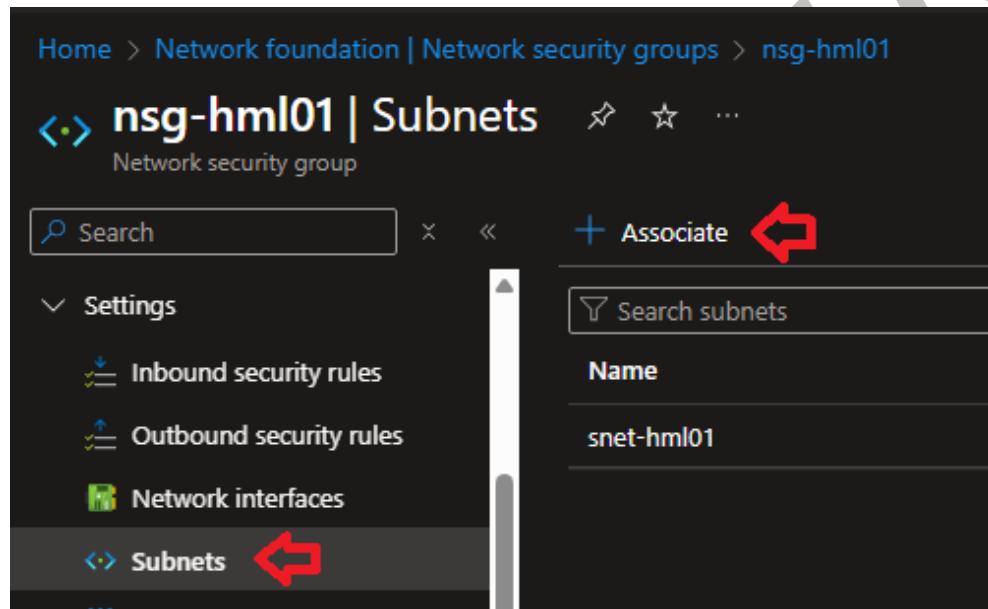
Após associar o NSG a SUBNET.



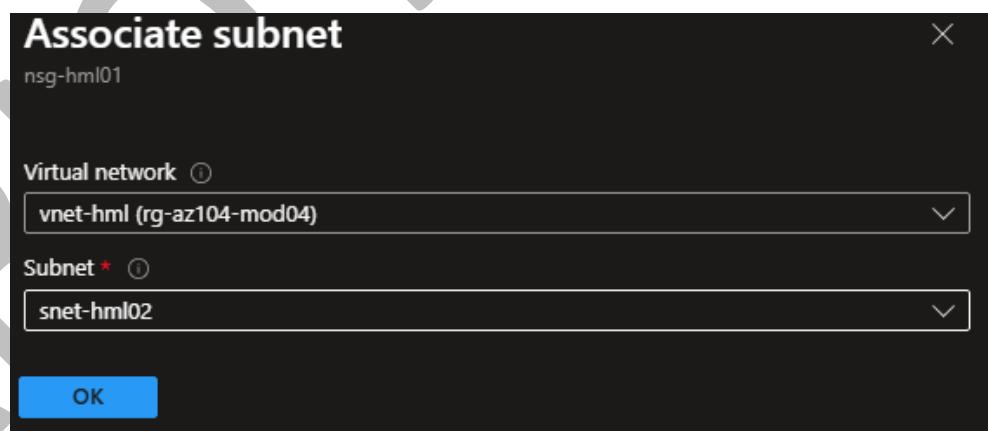
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1) Associando a SNET-HML02 ao NSG-HML01.

- No portal do Azure NETWORKS SECURITY GROUP > *nsg-hml01* > SETTINGS > SUBNETS > ASSOCIATE.



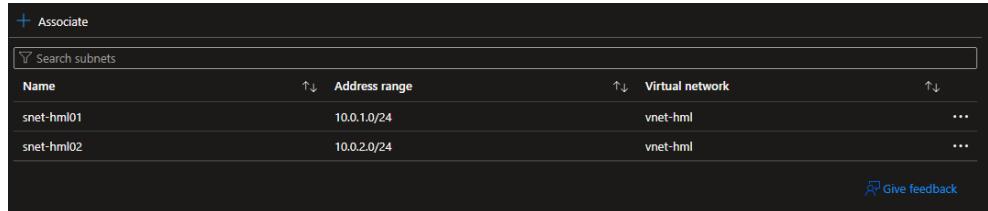
- Realizando a associação da VNET com a SUBNET.



- Subnet (snet-hml02) associada com sucesso.



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- 2) Liberando acesso RDP para VM *srv-win02*.

Como a regra no NSG está autorizando somente a VM *srv-win01* para conexão RDP, é necessário incluir no NSG a VM *srv-win02* para que seja autorizado o acesso RDP.

- Em **NETWORK SECURITY GROUPS > NSG-HML01 > OVERVIEW** Inbound Security Rules > *Clique na regra que foi criada*.

Priority	Name	Port	Protocol	Source	Destination	Action
300	AllowAnyRDPIInBound	3389	TCP	Any	10.0.1.4	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow

- Incluindo o IP local da VM em *Destination IP addresses/CIDR ranges* para liberar o acesso RDP.



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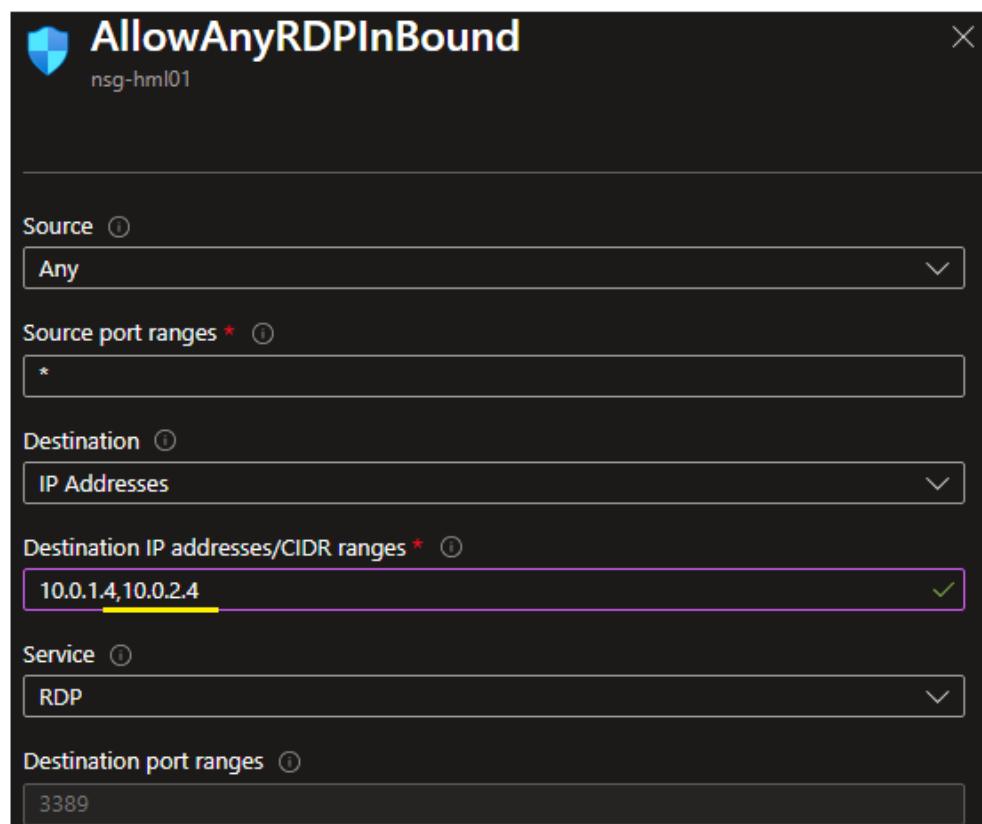
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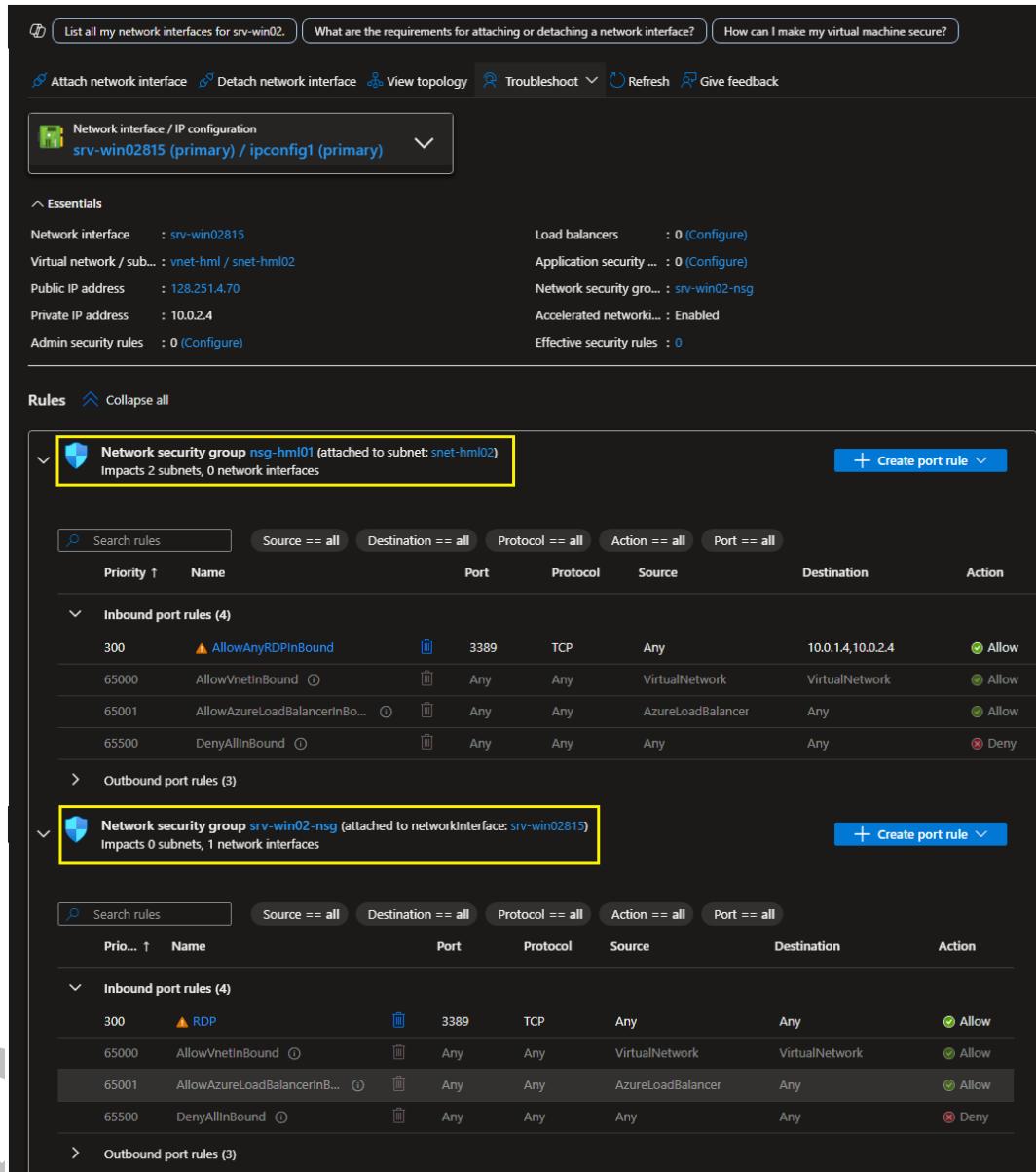
- A conectividade com a VM srv-win02 foi configurada.

Priority ↑	Name ↑	Port ↑	Protocol ↑	Source ↑	Destination ↑	Action ↑	
Inbound Security Rules							
300	AllowAnyRDPInBound	3389	TCP	Any	10.0.1.4,10.0.2.4	Allow	
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow	
65001	AllowAzureLoadBalancerInBou...	Any	Any	AzureLoadBalancer	Any	Allow	
65500	DenyAllInBound	Any	Any	Any	Any	Deny	

Nesse cenário existem 2 NSG<sup>s</sup> para serem controlados ou monitorados e isso não é boa prática para ser aplicada no Azure. Para visualizar clique em *VIRTUAL MACHINES* > *nome da VM* > *Network Settings*.



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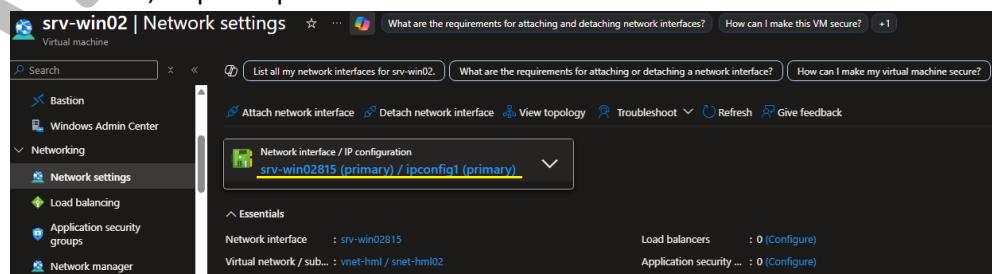
The screenshot shows the Azure portal interface for managing network security groups (NSGs) attached to a virtual machine (VM). The main focus is on the 'Inbound port rules' and 'Outbound port rules' sections. In the 'Inbound port rules' section, there are four rules listed:

- AllowAnyRDPInBound (Priority 300, Action: Allow)
- AllowVnetInBound (Priority 65000, Action: Allow)
- AllowAzureLoadBalancerInBound (Priority 65001, Action: Allow)
- DenyAllInBound (Priority 65500, Action: Deny)

In the 'Outbound port rules' section, there are three rules listed:

- RDP (Priority 300, Action: Allow)
- AllowVnetInBound (Priority 65000, Action: Allow)
- AllowAzureLoadBalancerInBound (Priority 65001, Action: Allow)

Para verificar qual NSG está aplicando as regras *\*Validar qual regra está sendo efetivada para máquina*, clique na placa de rede da VM.



The screenshot shows the Azure portal interface for managing network settings of a specific VM. The 'Network interface / IP configuration' section displays the following details:

- Network interface: srw-win02815 (primary) / ipconfig1 (primary)
- Virtual network / subnet: vnet-hml / snet-hml02

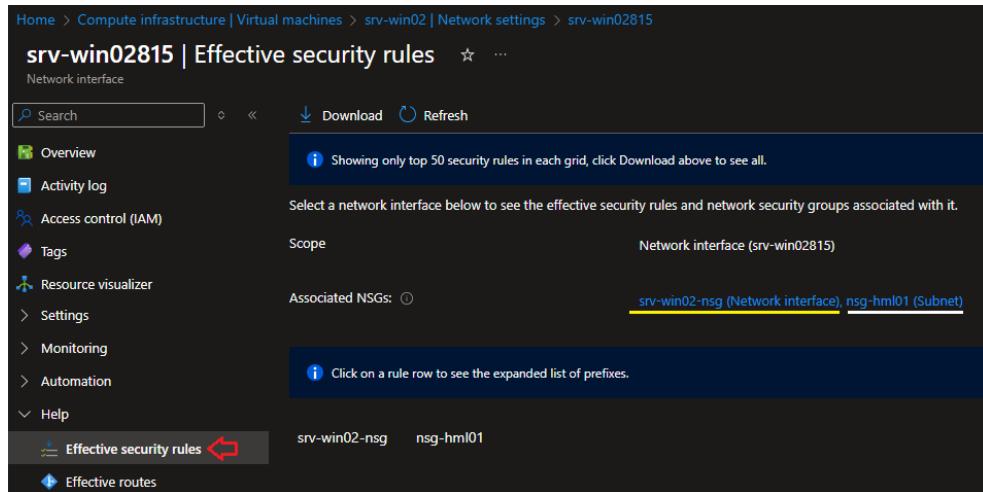
The 'Essentials' section shows the following status:

- Load balancers: 0 (Configure)
- Application security ...: 0 (Configure)

Em seguida, clique em HELP > EFFECTIVE SECURITY RULES *\*A máquina virtual tem que estar ligada*.



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Home > Compute infrastructure | Virtual machines > srv-win02 | Network settings > srv-win02815

### srv-win02815 | Effective security rules

Network interface

Search Download Refresh

Showing only top 50 security rules in each grid, click Download above to see all.

Select a network interface below to see the effective security rules and network security groups associated with it.

Scope: Network interface (srv-win02815)

Associated NSGs: srv-win02-nsg (Network interface), nsg-hml01 (Subnet)

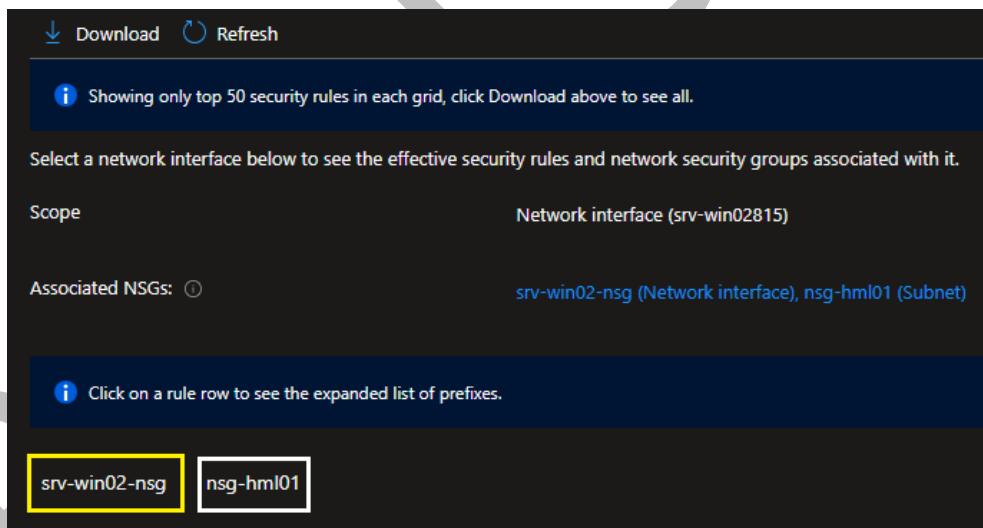
Click on a rule row to see the expanded list of prefixes.

srv-win02-nsg nsg-hml01

Effective security rules (highlighted by a red arrow)

Effective routes

Onde na VM *srv-win02* existem NSG<sup>s</sup> um associado a placa de rede e um a VNET. Clicando na guia é possível analisar qual NSG/regra que está impactando na VM.



Download Refresh

Showing only top 50 security rules in each grid, click Download above to see all.

Select a network interface below to see the effective security rules and network security groups associated with it.

Scope: Network interface (srv-win02815)

Associated NSGs: srv-win02-nsg (Network interface), nsg-hml01 (Subnet)

Click on a rule row to see the expanded list of prefixes.

srv-win02-nsg (highlighted by a yellow box) nsg-hml01

Clicando em um dos NSG<sup>s</sup>.



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Download Refresh								
Showing only top 50 security rules in each grid, click Download above to see all.								
srv-win02-nsg nsg-hml01								
Inbound rules								
Name	Priority	Source	Source Ports	Destination	Destination Ports	Protocol		
RDP	300	0.0.0.0/0::/0	0-65535	0.0.0.0/0::/0	3389-3389	TCP		
AllowVnetInBound	65000	Virtual network	0-65535	Virtual network	0-65535	All		
AllowAzureLoadBalancerInBound	65001	Azure load balancer	0-65535	0.0.0.0/0::/0	0-65535	All		
DenyAllInBound	65500	0.0.0.0/0::/0	0-65535	0.0.0.0/0::/0	0-65535	All		
Outbound rules								
Name	Priority	Source	Source Ports	Destination	Destination Ports	Protocol		
AllowVnetOutBound	65000	Virtual network	0-65535	Virtual network	0-65535	All		

É possível também baixar as informações clicando em downloads. Os dados serão gerados em um arquivo .CSV para visualização.

### 3) Desassociando o NSG da placa de rede da VM srv-win02.

- Na pesquisa coloque NSG.
- Clique no NSG que está associada a placa de rede da VM.

Home > Network foundation				
Network foundation   Network security groups				
Search	Create	Manage view	Refresh	Export to CSV
Filter for any field...	Subscription equals all	Resource Group equals all	Location equals all	+ Add filter
<input type="checkbox"/> Name ↑	Resource Group	Location	Subscription	Flow log
<input type="checkbox"/> nsg-hml01	rg-az104-mod04	North Europe	Azure subscription 1	
<input type="checkbox"/> srv-win02-nsg	rg-az104-mod04	North Europe	Azure subscription 1	

- Em SETTINGS clique em NETWORK INTERFACE e selecione a placa de rede. Em seguida clique em DESASSOCIAR.

Home > srv-win02-nsg				
srv-win02-nsg   Network interfaces				
Search	Associate	Refresh	Dissociate	2
Filter for any field...				
Name	Public IP address	Private IP address	Virtual machine	
srv-win02815	128.251.4.70	10.0.2.4	srv-win02	
Settings	Inbound security rules	Outbound security rules	Network interfaces	Subnets
				Properties



## TASKS - TAREFAS

### VIRTUAL NETWORKS – ASSOCIAR O NSG DA SUBNET (SNET-HML02) DESASSOCIA / ASSOCIAR IP PÚBLICO NAS VMS

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- Após esse procedimento, DELETE o NSG para não poluir o ambiente. Clique em OVERVIEW em seguida clique em DELETE.

The screenshot shows the 'Overview' tab of the 'srv-win02-nsg' NSG. The 'Delete' button in the top right corner is highlighted with a yellow box. The 'Essentials' section displays resource group (rg-az104-mod04), location (North Europe), subscription (Azure subscription 1), and tags (Modulo 04 : VNET).

#### 4) Gerenciando os IPs públicos.

O IP público é associado a placa de rede da VM.

The screenshot shows the 'Overview' tab of the 'srv-win01-ip' Public IP address. The 'Associate' button in the top right corner is highlighted with a yellow box. The 'Essentials' section displays resource group (rg-az104-mod04), location (North Europe), subscription (Azure subscription 1), and association details (Associated to: srv-win0148, Virtual machine: srv-win01). Other fields shown include SKU (Standard), Tier (Regional), IP address (134.149.27.104), DNS name (-), and Configuration.

- Para desassociar o IP público, na tela principal, clique em DESASSOCIAIR.

The screenshot shows the 'Overview' tab of the 'srv-win01-ip' Public IP address. The 'Dissociate' button in the top right corner is highlighted with a yellow box. The 'Essentials' section displays resource group (rg-az104-mod04), location (North Europe), subscription (Azure subscription 1), and association details (Associated to: srv-win0148, Virtual machine: srv-win01). Other fields shown include SKU (Standard), Tier (Regional), IP address (134.149.27.104), DNS name (-), and Configuration.



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O IP público não está associado a nenhuma VM.

The screenshot shows the Azure portal interface for managing a public IP address. The main title is 'srv-win01-ip' under 'Public IP address'. The 'Associate' and 'Dissociate' buttons are visible at the top. The 'Delete' button is highlighted with a yellow box. The 'Essentials' section displays the following details:

Resource group (move)	: rg-az104-mod04	SKU	: Standard
Location (move)	: North Europe	Tier	: Regional
Subscription (move)	: Azure subscription 1	IP address	: 134.149.27.104
Subscription ID	: 565a3134-bd66-40aa-b6a5-32232946dd32	DNS name	: -
See more		Associated to	: -
		Virtual machine	: -
Tags (edit) : Modulo 04 : VNET			

Para não pagar por este IP público, clique em DELETE para removê-lo da conta.

The screenshot shows the Azure portal interface for managing a public IP address. The main title is 'srv-win01-ip' under 'Public IP address'. The 'Associate' and 'Dissociate' buttons are visible at the top. The 'Delete' button is highlighted with a yellow box. The 'Essentials' section displays the following details:

Resource group (move)	: rg-az104-mod04	SKU	: Standard
Location (move)	: North Europe	Tier	: Regional
Subscription (move)	: Azure subscription 1	IP address	: 134.149.27.104
Subscription ID	: 565a3134-bd66-40aa-b6a5-32232946dd32	DNS name	: -
See more		Associated to	: -
		Virtual machine	: -
Tags (edit) : Modulo 04 : VNET			

5) Alterando o IP dinâmico para estático na VM.

*\*Este procedimento NÃO é realizado diretamente na placa de rede da VM dentro do Windows e sim no ambiente do AZURE.*

- No AZURE procure a máquina virtual. Clique em NETWORK SETTINGS e clique na placa de rede.

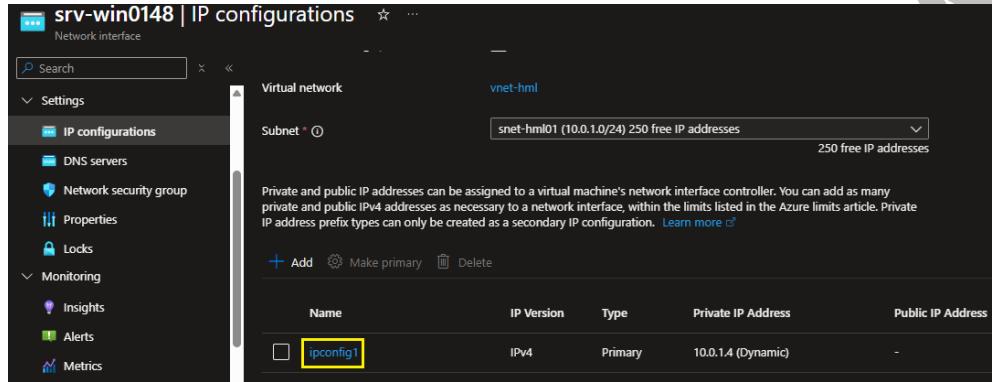
The screenshot shows the Azure portal interface for managing a virtual machine named 'srv-win01'. The main title is 'srv-win01 | Network settings' under 'Virtual machine'. The 'Network settings' link is highlighted with a yellow arrow. The 'Network interface / IP configuration' section is highlighted with a yellow box and displays the following information:

Network interface / IP configuration	srv-win0148 (primary) / ipconfig1 (primary)
↓	



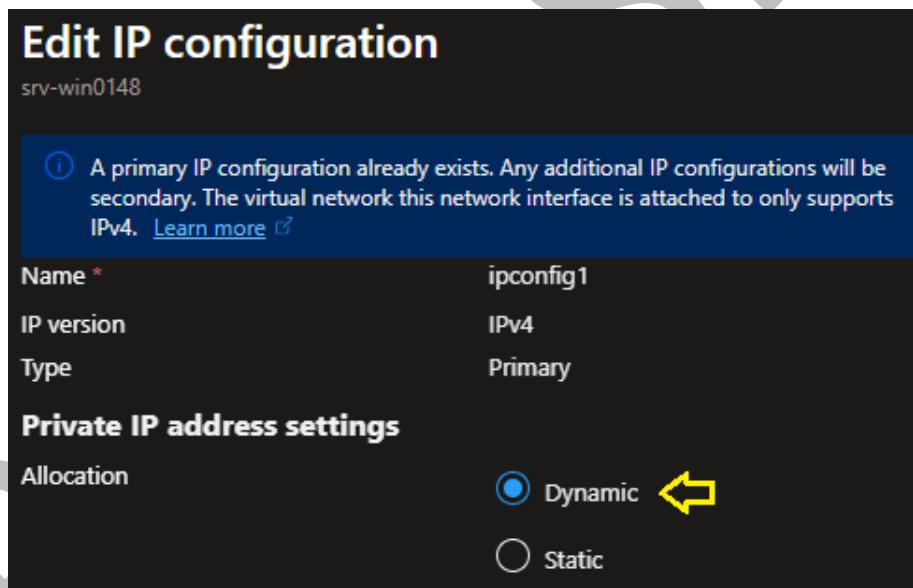
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- Em SETTINGS > IP CONFIGURATIONS clique no nome da placa de rede "ipconfig1".



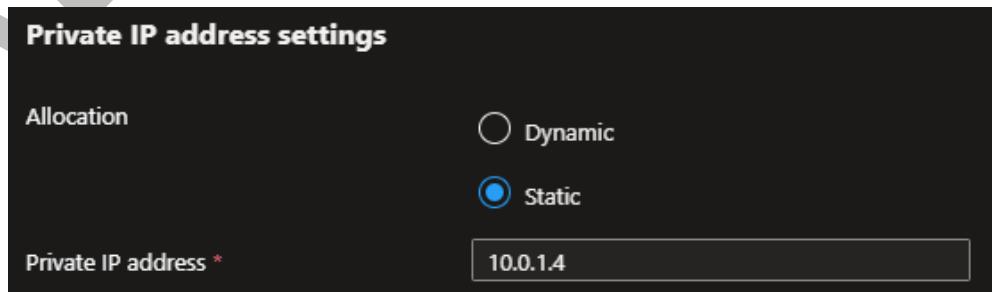
The screenshot shows the Azure portal interface for managing IP configurations. On the left, there's a sidebar with options like Settings, IP configurations (which is selected), DNS servers, Network security group, Properties, Locks, Monitoring, Insights, Alerts, and Metrics. The main pane displays a virtual network named 'vnet-hml' and a subnet named 'snet-hml01'. It shows 250 free IP addresses. A table lists the IP configurations, with 'ipconfig1' highlighted in yellow. The table columns include Name, IP Version, Type, Private IP Address, and Public IP Address. Below the table, there are buttons for Add, Make primary, Edit, and Delete.

- Em *Private IP Address settings > Allocation* altere de dinâmico para estático.



The screenshot shows the 'Edit IP configuration' dialog for 'ipconfig1'. At the top, it says 'srv-win0148'. A blue info bar states: 'A primary IP configuration already exists. Any additional IP configurations will be secondary. The virtual network this network interface is attached to only supports IPv4.' Below this, there are fields for Name (ipconfig1), IP version (IPv4), and Type (Primary). Under 'Private IP address settings', the 'Allocation' dropdown has two options: 'Dynamic' (selected) and 'Static'. A yellow arrow points from the text 'altere de dinâmico para estático.' to the 'Static' option.

- Informe o IP que será associado e clique em SAVE.

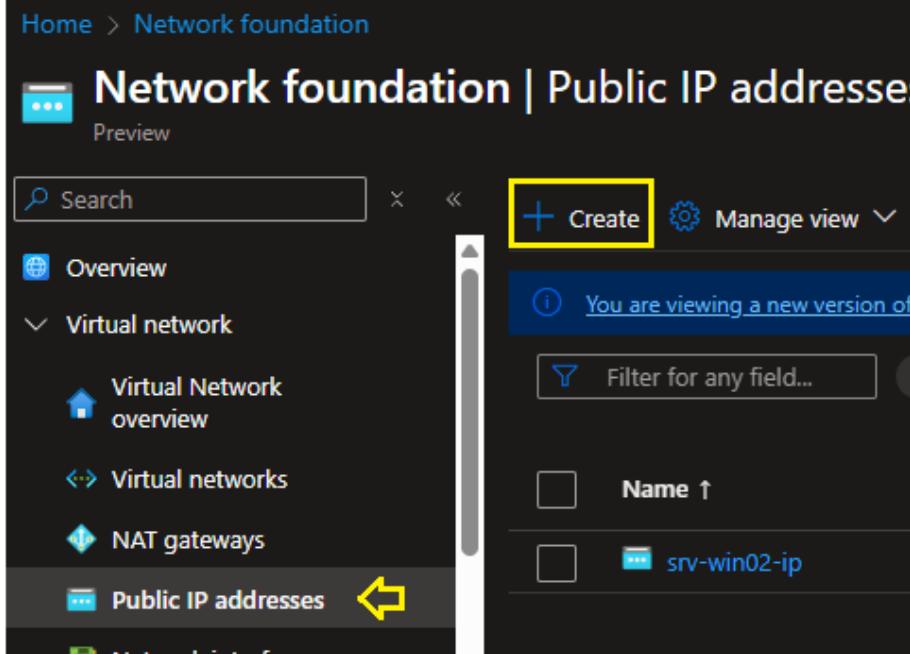


The screenshot shows the 'Private IP address settings' dialog. It has a section for 'Allocation' with 'Dynamic' and 'Static' options, where 'Static' is selected. Below this, there's a field for 'Private IP address \*' containing '10.0.1.4'.

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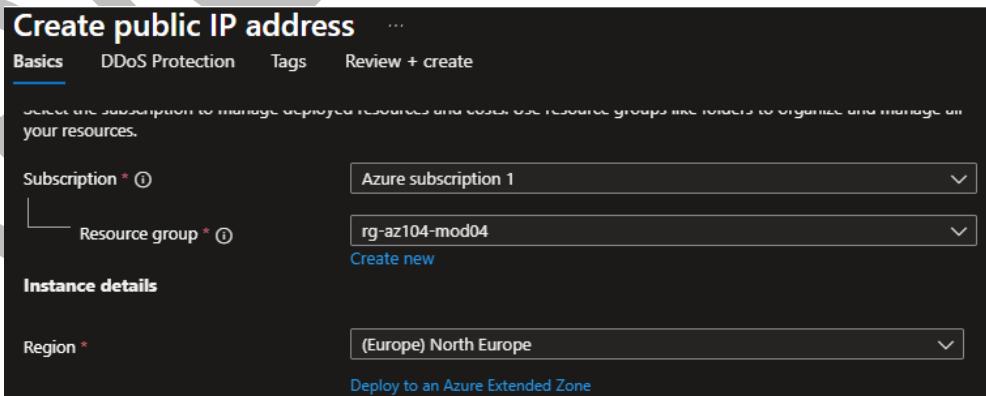
6) Criar um IP público no Azure.

- Na pesquisa coloque *Public IP Address* e no console do NETWORK FOUNDATION clique em CREATE.



The screenshot shows the Azure portal interface for Network Foundation Public IP addresses. The top navigation bar includes 'Home > Network foundation'. Below it, the main title is 'Network foundation | Public IP addresses'. On the left, there's a sidebar with 'Overview', 'Virtual network' (expanded), 'Virtual Network overview', 'Virtual networks', 'NAT gateways', and 'Public IP addresses' (highlighted with a yellow arrow). The main content area shows a table with one row: 'Name' (srv-win02-ip) and 'IP Address' (20.121.172.123). A 'Create' button is highlighted with a yellow box at the top right of the table area.

- Informe o RESOURCE GROUP e a REGIÃO \**Tem que ser as mesmas de onde estão as máquinas virtuais*



The screenshot shows the 'Create public IP address' wizard. The 'Basics' tab is active. It displays the following information:

- Subscription: Azure subscription 1
- Resource group: rg-az104-mod04
- Region: (Europe) North Europe

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- Informe as configurações.

**Configuration details**

Name *	pip-srv-win01
IP Version * ⓘ	<input checked="" type="radio"/> IPv4 <input type="radio"/> IPv6
SKU * ⓘ	<input type="radio"/> Standard V2: For use with Standard V2 NAT Gateway <input checked="" type="radio"/> Standard
Availability zone * ⓘ	Zone-redundant

- Em rota preferencial sempre que possível escolha o backbone da Microsoft.

Tier * ⓘ	<input checked="" type="radio"/> Regional <input type="radio"/> Global
<small> ⓘ The limit for global public IP addresses with the selected IP version in the selected subscription and region has been reached.</small>	
IP address assignment	
Static IPs are assigned at the time the resource is created and released when the resource is deleted. <a href="#">Learn more ↗</a>	
IP address assignment *	Static
Routing preference * ⓘ	<input checked="" type="radio"/> Microsoft network <input type="radio"/> Internet

- Mantenha as configurações default.

<small> ⓘ The limit for public IP addresses with 'Internet' routing preference in the selected subscription and region has been reached.</small>	
Idle timeout (minutes) * ⓘ	4
DNS name label ⓘ	.northeurope.cloudapp.azure.com
Domain name label scope (preview) ⓘ	None



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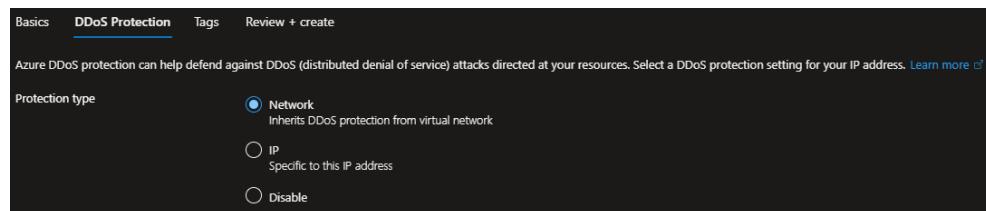
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Azure DDoS protection can help defend against DDoS (distributed denial of service) attacks directed at your resources. Select a DDoS protection setting for your IP address. [Learn more](#)

Protection type

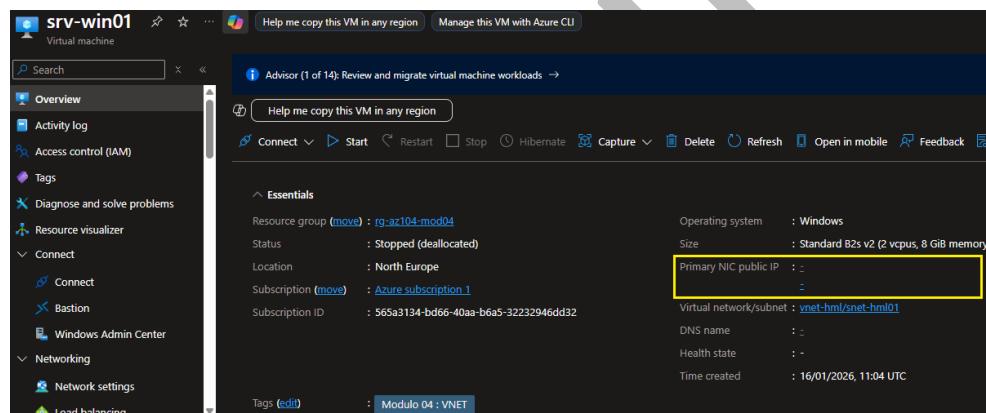
Network  
Inherits DDoS protection from virtual network

IP  
Specific to this IP address

Disable

- 7) Associar o IP público a uma VM.

No momento a VM não tem IP público associado.



srv-win01 | Virtual machine

Help me copy this VM in any region Manage this VM with Azure CLI

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Resource visualizer Connect Connect Bastion Windows Admin Center Networking Network settings Load balancing

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback

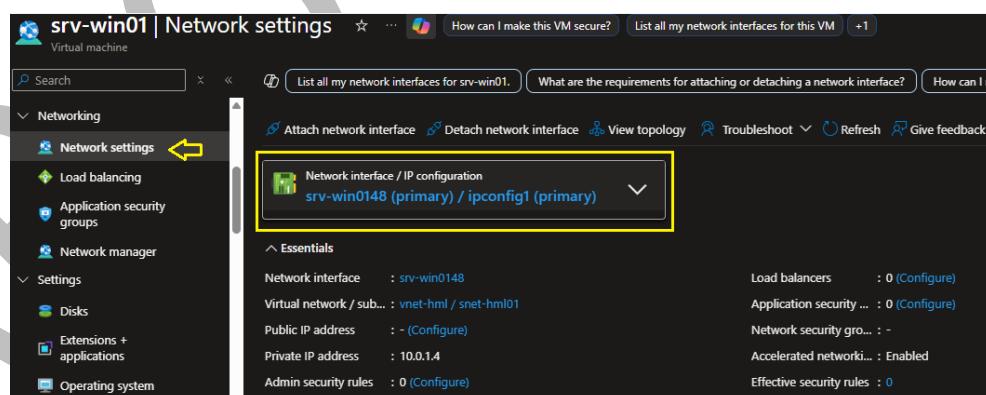
Adviser (1 of 14): Review and migrate virtual machine workloads →

Essentials

Resource group (move) : rg-az104-mod04  
Status : Stopped (deallocated)  
Location : North Europe  
Subscription (move) : Azure subscription 1  
Subscription ID : 565a3134-bd66-40aa-b6a5-32232946dd32  
Operating system : Windows  
Size : Standard B2s v2 (2 vCPUs, 8 GiB memory)  
Primary NIC public IP : -  
Virtual network/subnet : vnet-hml/snet-hml01  
DNS name : -  
Health state : -  
Time created : 16/01/2026, 11:04 UTC

Tags (edit) : Modulo 04 : VNET

- Em NETWORK > NETWORK SETTINGS clique na placa de rede da VM.



srv-win01 | Network settings

How can I make this VM secure? List all my network interfaces for this VM +1

Networking Network settings Load balancing Application security groups Network manager

Attach network interface Detach network interface View topology Troubleshoot Refresh Give feedback

Network interface / IP configuration srw-win0148 (primary) / ipconfig1 (primary)

Essentials

Network interface : srw-win0148  
Virtual network / subnet : vnet-hml / snet-hml01  
Public IP address : - (Configure)  
Private IP address : 10.0.1.4  
Admin security rules : 0 (Configure)

Load balancers : 0 (Configure)  
Application security ... : 0 (Configure)  
Network security gro... : -  
Accelerated network... : Enabled  
Effective security rules : 0

- Em SETTINGS > IP CONFIGURATIONS clique no nome da placa de rede virtual.



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**Versão**  
1.0

srv-win0148 | IP configurations

Network interface

Virtual network: vnet-hml

Subnet: snet-hml01 (10.0.1.0/24) 250 free IP addresses

Private and public IP addresses can be assigned to a virtual machine's network interface controller. You can assign private and public IPv4 addresses as necessary to a network interface, within the limits listed in the Azure documentation. IP address prefix types can only be created as a secondary IP configuration. [Learn more](#)

Add Make primary Delete

Name	IP Version	Type	Private IP Address
ipconfig1	IPv4	Primary	10.0.1.4 (Static)

- Em PUBLIC IP ADDRESS SETTINGS selecione ASSOCIATE PUBLIC IP ADDRESS.

Public IP address settings

Associate public IP address

- Em PUBLIC IP ADDRESS selecione a IP público que foi criado.

Public IP address settings

Associate public IP address

Public IP address \*

(New) pip-vnet-hml-northeurope-snet-hml01

**pip-srv-win01 (4.210.31.40)**

srv-win02-ip (128.251.4.70)

(New) pip-vnet-hml-northeurope-snet-h... ▾

Create a public IP address

- Após selecionar, clique em SAVE.
- O IP foi associado com sucesso.

Name	IP Version	Type	Private IP Address	Public IP Address
ipconfig1	IPv4	Primary	10.0.1.4 (Static)	4.210.31.40 (pip-srv-win01)

No Overview da VM em Primary NIC public IP o endereço IP externo está associado.

	<b>TASKS - TAREFAS</b>			Página <b>15 de 15</b>
	<b>VIRTUAL NETWORKS – ASSOCIAR O NSG DA SUBNET (SNET-HML02)</b> <b>DESASSOCIA / ASSOCIAR IP PUBLICO NAS VMS</b>			
<b>Setor Responsável</b> <b>LABORATÓRIO</b>	<b>Analista Responsável</b> Nome: Fábio Silva		<b>Emissão</b> 20/01/2026	<b>Versão</b> 1.0

