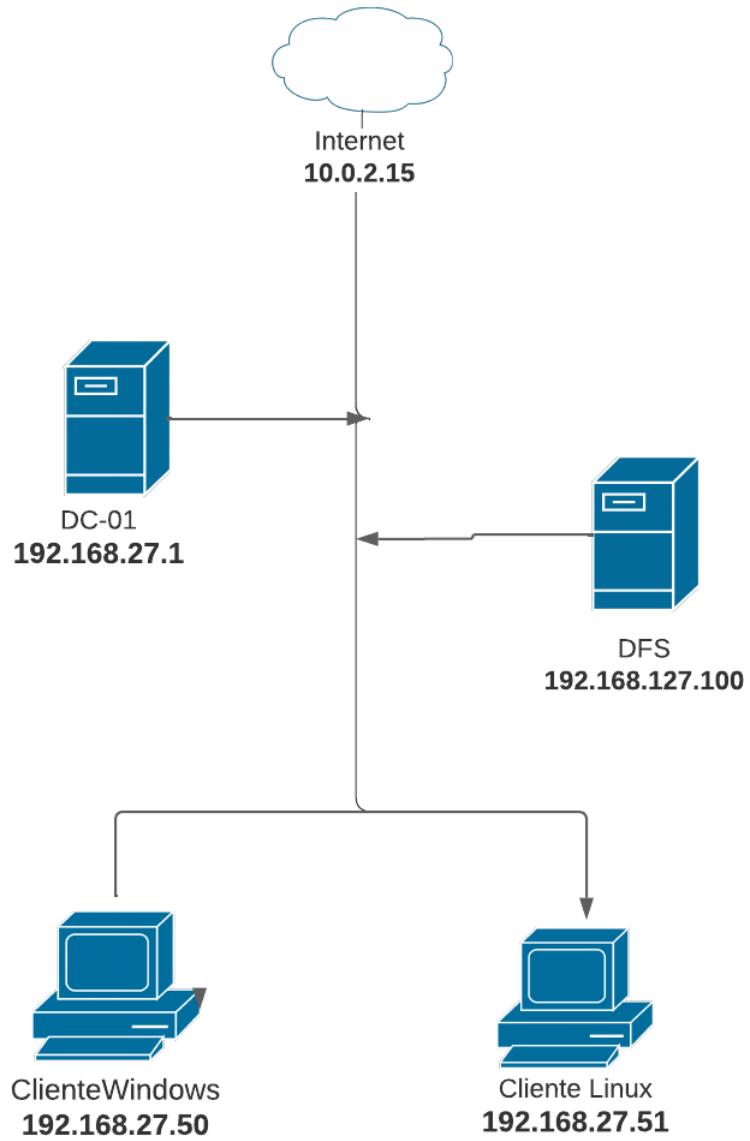


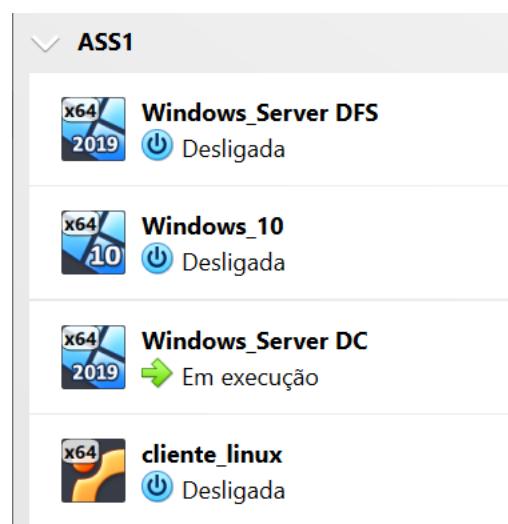
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## A minha rede e os devidos IP's de cada máquina



Nome da VM	CPU	RAM	Disco	SO	Serviços Instalados
<b>Windows_Server DFS</b>	2	4GB	35GB	Windows Server 2019	DFS NameSpace, DFS Replication
<b>Windows_Server DC</b>	2	4GB	40GB	Windows Server 2019	Active Directory, DNS.DHCP
<b>CLIENTE LINUX</b>	2	2GB	25GB	Ubuntu Desktop 22.04.1 LTS	TESTES
<b>CLIENTE WINDOWS</b>	2	2GB	25GB	Ubuntu Desktop 22.04.1 LTS	TESTES



## Endereçamento da rede

- Servidor DC-01

```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.17763.3650]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . : wifi.ipb.pt
IPv6 Address . . . . . : fd00::a0a9:ddcc:5623:ec50
Link-local IPv6 Address . . . . . : fe80::b042:3d5a:eca9:c22%16
IPv4 Address . . . . . : 10.0.2.15
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : fe80::2%16
                                         10.0.2.2

Ethernet adapter Ethernet 2:

Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . . : fe80::a114:f42d:1f56:4766%7
IPv4 Address . . . . . : 192.168.27.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

- Servidor DFS

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.3650]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix . :
    Link-local IPv6 Address . . . . . : fe80::2fb5:2b8e:a30:5b2c%4
    IPv4 Address. . . . . : 192.168.27.100
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.27.1

C:\Users\Administrator>
```

- Cliente Windows

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aluno10>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix . : dominiomt.local
    Link-local IPv6 Address . . . . . : fe80::95d:bec4:b4c2:2c5c%9
    IPv4 Address. . . . . : 192.168.27.50
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.27.1

C:\Users\aluno10>
```

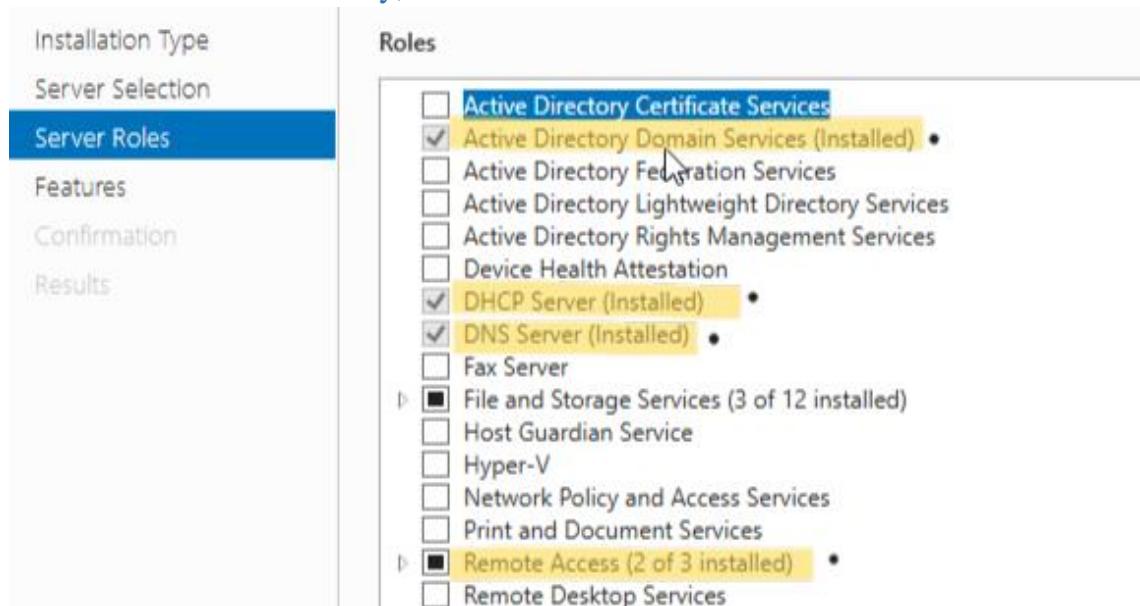
- Cliente Linux

```
marcio@cliente-ubuntu:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:c1:a7:dc brd ff:ff:ff:ff:ff:ff
    inet 192.168.27.51/24 brd 192.168.27.255 scope global dynamic noprefixroute enp0s3
        valid_lft 1727601sec preferred_lft 1727601sec
    inet6 fe80::aba3:cd2f:2cc1:143d/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
marcio@cliente-ubuntu:~$
```

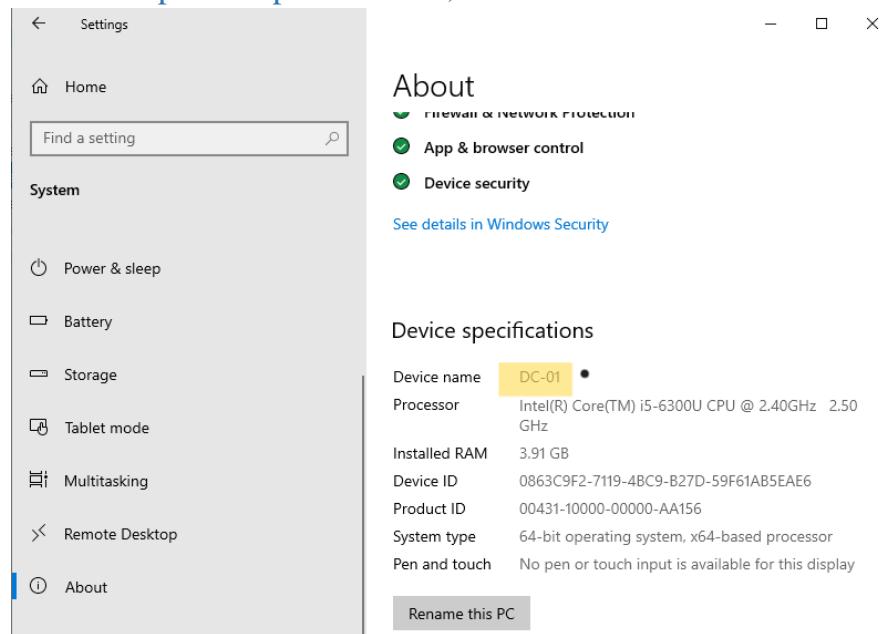
## Servidor DC-01

### Instalação e configuração dos serviços

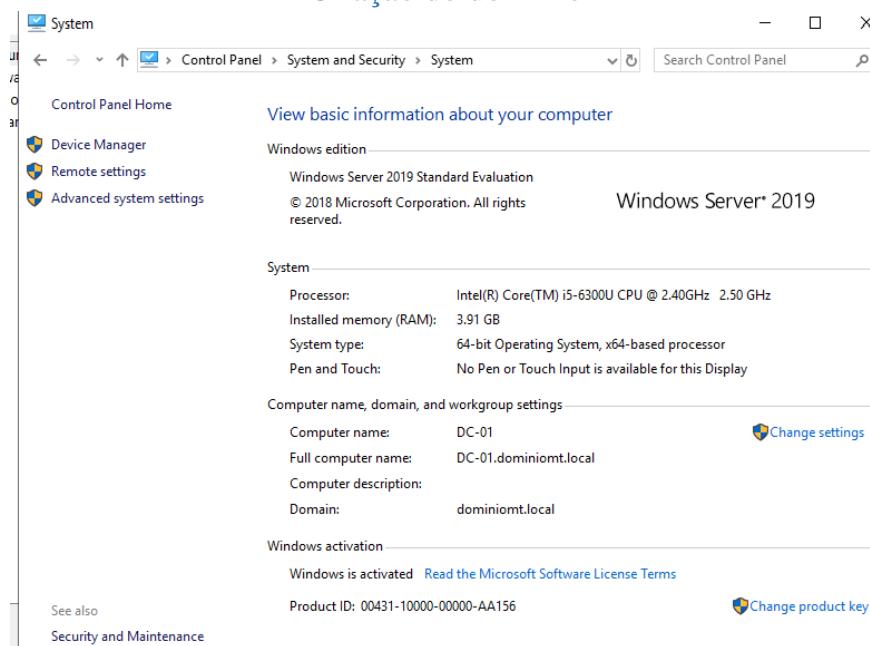
- Active Directory, DNS e DHCP e Remote Access instalado



Alteração do nome do computador para: DC-01;



## Criação do domínio



The screenshot shows the Active Directory Users and Computers (ADUC) interface. On the left is a navigation pane with icons for Active Directory Users and Computers, Saved Queries, and the current domain 'dominiomt.local'. The main pane displays a table of objects with columns for Name, Type, and Description. The objects listed are:

Name	Type	Description
Administrati...	Organizational...	
Alunos	Organizational...	
Builtin	builtinDomain	
Computers	Container	Default container for up...
Domain Controll...	Organizational...	Default container for sec...
ForeignSecu...	Container	Default container for sec...
Managed Se...	Container	Default container for ma...
Professores	Organizational...	
Supoerte	Organizational...	
Users	Container	Default container for up...

## Configuração do DHCP

The screenshot shows the DHCP management console. The left pane shows a tree structure with 'DHCP' selected, followed by 'dc-01.dominiomt.local' and 'IPv4'. Under 'IPv4', 'Server Options' is expanded, showing 'Scope [192.168.27.0] 15'. The right pane displays a table of address leases with columns: Client IP Address, Name, Lease Expiration, and Type. There are two entries:

Client IP Address	Name	Lease Expiration	Type
192.168.27.50	Cliente1.dominiomt.local	2/13/2025 10:01:35 PM	DHCP
192.168.27.51	cliente-ubuntu.dominiomt.local	2/13/2025 10:06:09 PM	DHCP

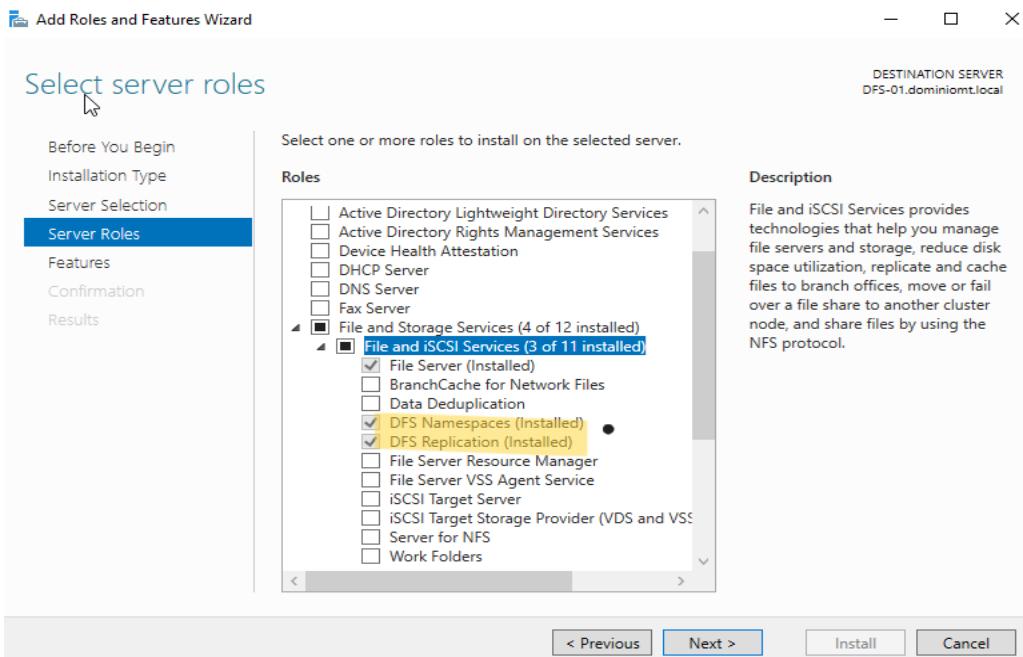
## Configuração do DNS

The screenshot shows the DNS Manager interface. The left pane shows a tree structure with 'DNS' selected, followed by 'DC-01', 'Forward Lookup Zones', and 'Reverse Lookup Zones'. The right pane displays a table of zones with columns: Name, Type, Status, and DNSSEC Status. There are two entries:

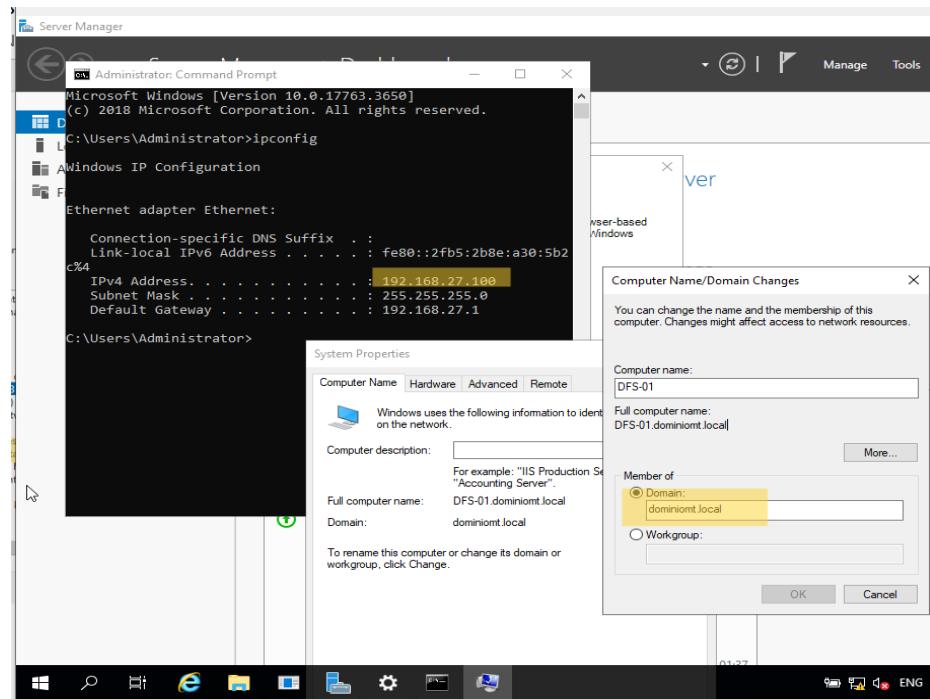
Name	Type	Status	DNSSEC Status
_msdcs.dominiomt.local	Active Directory-Integrated Pr...	Running	Not Signed
dominiomt.local	Active Directory-Integrated Pr...	Running	Not Signed

## Servidor DFS

## Instalação de serviços DFS E replicação no servidor



## DFS no domínio



## Validação da conectividade do cliente Windows

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19045.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aluno10>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . : dominiomt.local
Link-local IPv6 Address . . . . . : fe80::95d:bec4:b4c2:2c5c%9
IPv4 Address. . . . . : 192.168.27.50
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.27.1

C:\Users\aluno10>ping 192.168.27.1

Pinging 192.168.27.1 with 32 bytes of data:
Reply from 192.168.27.1: bytes=32 time=1ms TTL=128
Reply from 192.168.27.1: bytes=32 time=5ms TTL=128

Ping statistics for 192.168.27.1:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 5ms, Average = 3ms
Control-C
^C
C:\Users\aluno10>ping 192.168.27.100

Pinging 192.168.27.100 with 32 bytes of data:
Reply from 192.168.27.100: bytes=32 time=2ms TTL=128
Reply from 192.168.27.100:
Ping statistics for 192.168.27.100:
    Packets: Sent = 3, Received = 2, Lost = 1 (33% loss),
bytes=32 Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 2ms, Average = 0ms
```

Windows 10 Enterprise Evaluation  
Windows License valid for 62 days  
Build 19041.vb\_release.191206-1409

```
C:\Windows\system32\cmd.exe
IPv4 Address. . . . . : 192.168.27.50
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.27.1

C:\Users\aluno10>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=158ms TTL=254

Ping statistics for 8.8.8.8:
    Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 158ms, Maximum = 158ms, Average = 158ms
Control-C
^C
C:\Users\aluno10>ping DC-01

Pinging dc-01.dominiomt.local [10.0.2.15] with 32 bytes of data:
Reply from 10.0.2.15: bytes=32 time=82ms TTL=127
Reply from 10.0.2.15: bytes=32 time=1ms TTL=127

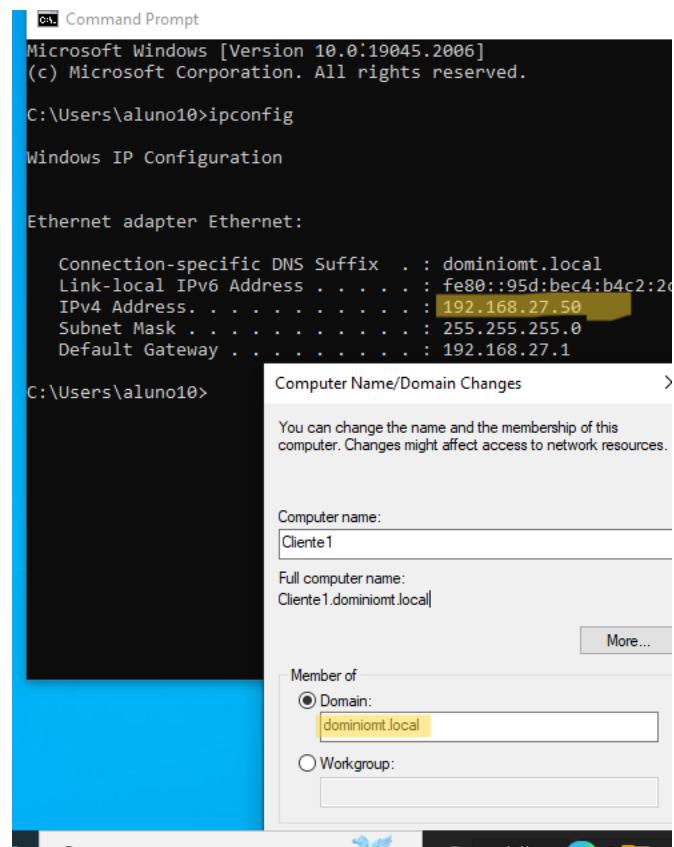
Ping statistics for 10.0.2.15:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 82ms, Average = 41ms
Control-C
^C
C:\Users\aluno10>ping 8.8.8.8

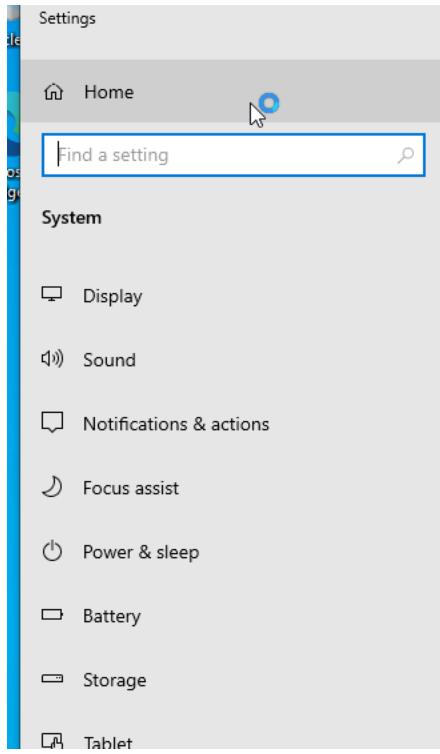
Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=250ms TTL=254

Ping statistics for 8.8.8.8:
    Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 250ms, Maximum = 250ms, Average = 250ms
Control-C
^C
C:\Users\aluno10>ping DFS-01

Pinging DFS-01.dominiomt.local [192.168.27.100] with 32 bytes of data:
Reply from 192.168.27.100: bytes=32 time=1ms TTL=128
Reply from 192.168.27.100: bytes=32 time<1ms TTL=128
```

## Cliente Windows no domínio





## About

Your PC is monitored and protected.

[See details in Windows Security](#)

## Device specifications

Device name	Cliente1
Full device name	Cliente1.dominiomt.local
Processor	Intel(R) Core(TM) i5-6300U CPU @ 2.40GHz 2.50 GHz
Installed RAM	2.00 GB
Device ID	53D90E73-000C-4DE5-8707-31A498B74EE2
Product ID	00329-20000-00001-AA199
System type	64-bit operating system, x64-based processor
Pen and touch	No pen or touch input is available for this display

[Copy](#)

[Rename this PC](#)

## Cliente Linux no domínio

```
dominiomt.local
type: kerberos
realm-name: DOMINIOMT.LOCAL
domain-name: dominiomt.local
configured: no
server-software: active-directory
client-software: sssd
required-package: sssd-tools
required-package: sssd
required-package: libnss-sss
required-package: libpam-sss
required-package: adcli
required-package: samba-common-bin
```

## OU'S e GPO's

The screenshot shows four separate Active Directory User and Computer management windows. The top window displays the root structure with 'Administrati...' as the selected item. Below it, three other windows show specific OUs and their contents:

- Left Window:** Shows 'Alunos' and 'Administrativos' under 'dominioimt.local'. It lists users 'aluno10' and 'aluno12', and a security group 'grupo\_alunos'.
- Middle Left Window:** Shows 'Alunos' and 'Administrativos' under 'dominioimt.local'. It lists users 'prof5' and 'prof6', and a security group 'grupo\_profe...'.
- Middle Right Window:** Shows 'Alunos' and 'Administrativos' under 'dominioimt.local'. It lists users 'suporte11' and 'suporte32', and a security group 'grupo\_supor...'.
- Right Window:** Shows 'Alunos' and 'Administrativos' under 'dominioimt.local'. It lists users 'adm4' and 'adm5', and a security group 'grupo\_admi...'.

As contas dos utilizadores devem seguir os seguintes requisitos:

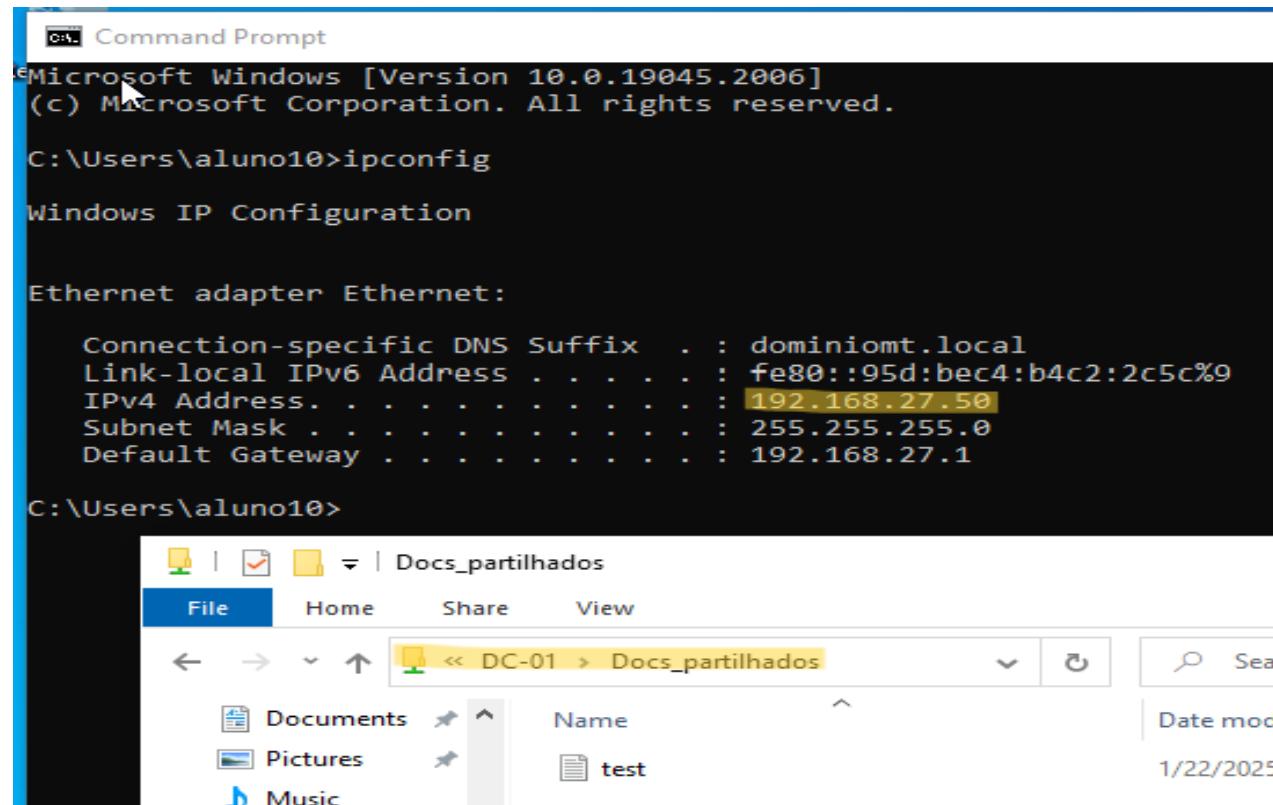
The screenshot shows the Group Policy Management Editor interface. The left pane displays the navigation tree under 'Computer Configuration' with 'Policies' expanded. The right pane shows two tables of policy settings:

Policy	Policy Setting
Enforce password history	12 passwords remembered
Maximum password age	180 days
Minimum password age	0 days
Minimum password length	9 characters
Minimum password length audit	Not Defined
Password must meet complexity requirements	Enabled
Store passwords using reversible encryption	Disabled

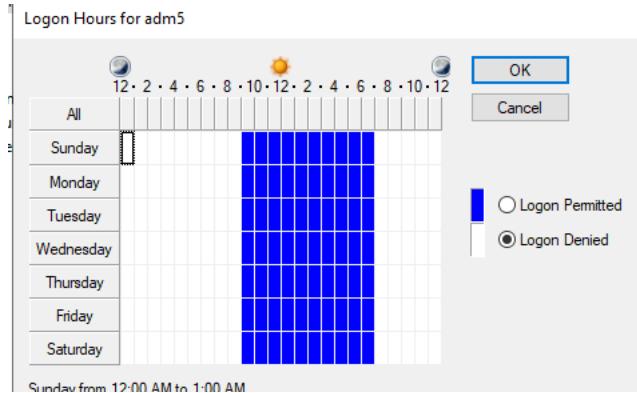
Policy	Policy Setting
Account lockout duration	30 minutes
Account lockout threshold	4 invalid logon attempts
Allow Administrator account lockout	Enabled
Reset account lockout counter after	30 minutes

Exemplo de uma pasta partilhada onde podia ser acessível a todos os clientes:



Os utilizadores do grupo administrativos deverão ter algumas configurações especiais nas suas contas, nomeadamente:

Apenas estão autorizados a utilizar os computadores das 09h00 às 19h00, findo esse período a sessão deverá ser terminada automaticamente



```
Command Prompt
(c) Microsoft Corporation. All rights reserved.

C:\Users\adm5>ipconfig

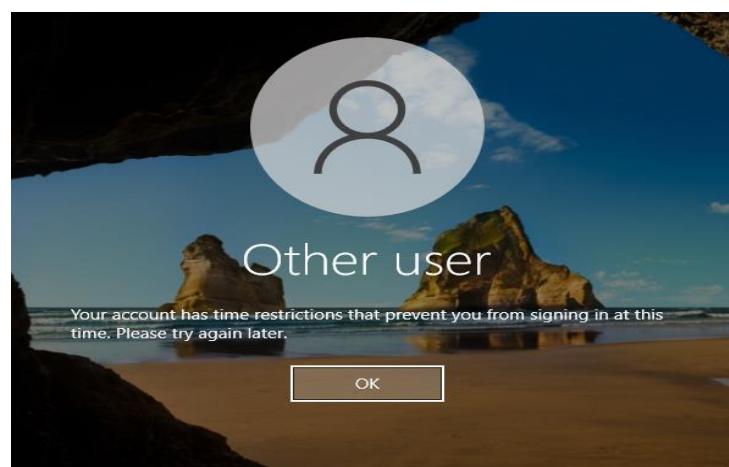
Windows IP Configuration

Ethernet adapter Ethernet:

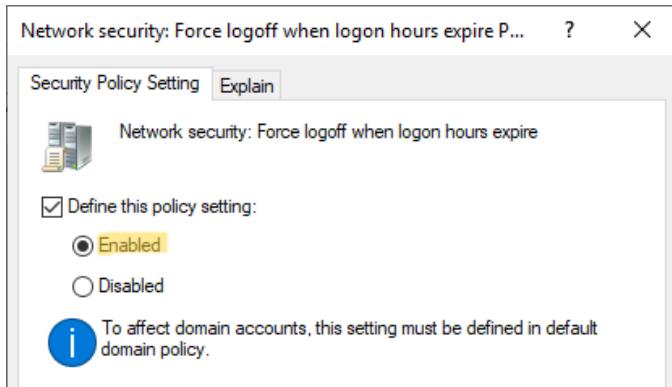
  Connection-specific DNS Suffix  . : dominiomt.local
  Link-local IPv6 Address . . . . . : fe80::95d:bec4:b4c2:2c5c%9
  IPv4 Address . . . . . : 192.168.27.50
  Subnet Mask . . . . . : 255.255.255.0
  Default Gateway . . . . . : 192.168.27.1

C:\Users\adm5>
```

Aqui nota-se que é possível estar logado sem nenhum problema no período entre as 09h até as 19h.



Já fora desse período não é possível aceder a contas administrativas.



Logout automático após atingir o horário.

Neste exemplo o utilizador adm5 (um dos utilizadores do grupo administrativos) não tem acesso ao painel de controlo.

Link Order	GPO	Enforced	Link Enabled	GPO Status
1	Logout_Administrati...	No	Yes	Enabled
2	Bloquear_PainelContro...	No	Yes	Enabled
3	sessao terminada	No	Yes	Enabled

```

Command Prompt
Microsoft Windows [Version 10.0.19045.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\adm5>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

  Connection-specific DNS Suffix . : dominiomt.local
  Link-local IPv6 Address . . . . . : fe80::95d:bec4:b4c2:2c5c%9
  IPv4 Address . . . . . : 192.168.27.50
  Subnet Mask . . . . . : 255.255.255.0
  Default Gateway . . . . . :

C:\Users\adm5> Restrictions
This operation has been cancelled due to restrictions in effect on this computer. Please contact your system administrator.

```

Deverá existir limitação no espaço ocupado por cada utilizador no servidor, tendo em conta os seguintes requisitos:

The screenshot shows the 'Quota Properties of C:\TestUserData' dialog box. Under 'Space limit', the 'Limit' is set to 250.00 MB. The 'Hard quota: Do not allow users to exceed limit' radio button is selected. In the 'Notification thresholds' section, a warning threshold of 85% is configured. The 'Actions' pane on the right shows the 'Quotas' section with options like 'Create Quot', 'Refresh', and 'View'.

Source Template	Match Temp...	Description

**85% Threshold Properties**

Generate notifications when usage reaches (%):

E-mail Message Event Log Command Report

Send e-mail to the following administrators:

Format: account@domain. Use semicolons to separate accounts.

Send e-mail to the user who exceeded the threshold

Email message

Type the text to use for the Subject line and message.

To identify the quota, limit, usage, or other information about the current threshold can use Insert Variable to insert a variable in your text.

Subject: Atention

Message body: 85% do limite foi atingido.

Select variable to insert:  Insert Variable

Inserts the e-mail addresses of the administrators who receive the e-mail.

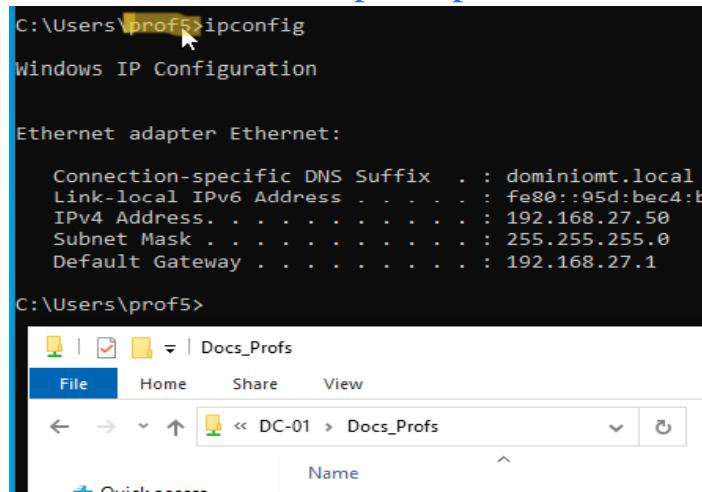
Quota onde cada utilizador têm no máximo 250MB para utilizar:

The screenshot shows the 'Source Template: 250 mb limite (1 item)' configuration window. It displays the quota path as C:\TestUserData, a limit of 250 MB, and a hard quota. The 'OK' button is highlighted.

Aviso que o utilizador excedeu 85% do limite imposto:

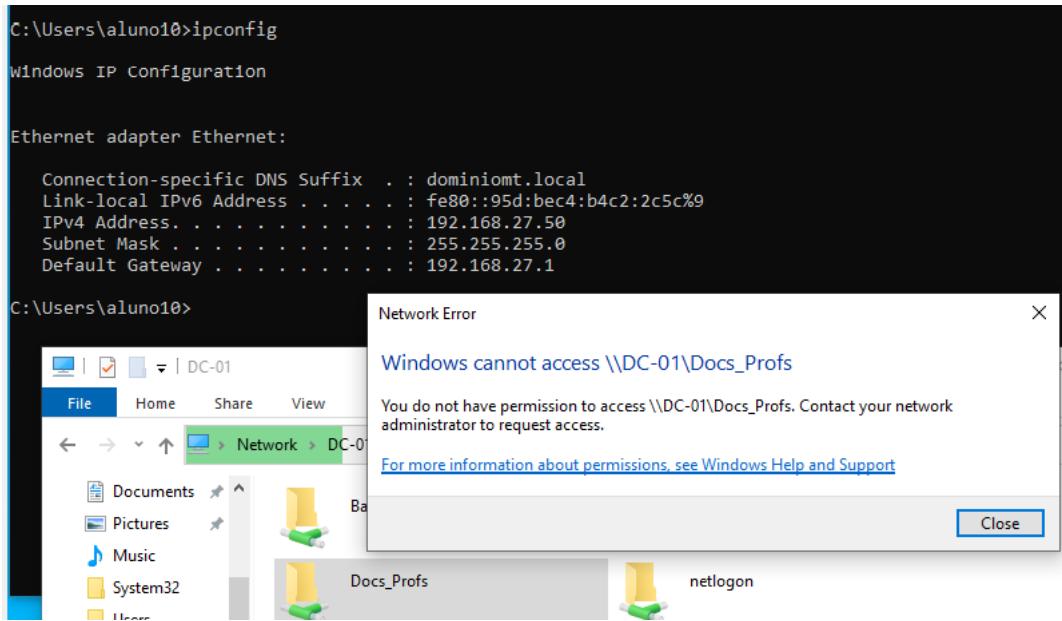
The screenshot shows the Event Viewer interface. The 'Administrative Events' log is selected, showing 1,401 events. One specific event is highlighted: 'Event 12325, SRMSVC'. The details pane shows the message: 'as exceeded the 85% quota threshold for the quota on C:; the quota limit is 250.00 MB, and 217.01 MB currently is in use.'

Apenas os professores têm acesso a pasta partilhada Docs\_Profs



C:\Users\prof5>ipconfig  
Windows IP Configuration  
  
Ethernet adapter Ethernet:  
  
Connection-specific DNS Suffix . : dominiomt.local  
Link-local IPv6 Address . . . . . : fe80::95d:bec4:b  
IPv4 Address. . . . . : 192.168.27.50  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 192.168.27.1  
  
C:\Users\prof5>  
  
A screenshot showing two windows side-by-side. The top window is a command prompt with the command 'ipconfig' run, displaying network configuration details for an Ethernet adapter. The bottom window is a File Explorer window showing a folder structure. It has a sidebar with 'File', 'Home', 'Share', and 'View' tabs. The main area shows a folder named 'Docs\_Profs' under 'DC-01'. A tooltip or status bar at the bottom of the window says 'Open with ->'. The title bar of the window also says 'Docs\_Profs'.

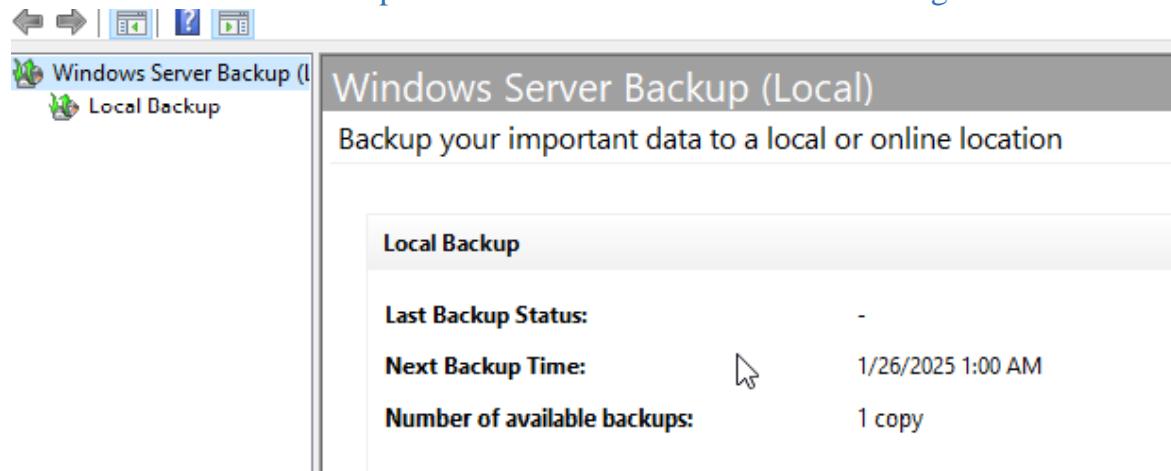
Aqui dá pa ver que qualquer utilizador que não seja professor já não têm acesso a Docs\_Profs:



C:\Users\aluno10>ipconfig  
Windows IP Configuration  
  
Ethernet adapter Ethernet:  
  
Connection-specific DNS Suffix . : dominiomt.local  
Link-local IPv6 Address . . . . . : fe80::95d:bec4:b4c2:2c5c%9  
IPv4 Address. . . . . : 192.168.27.50  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 192.168.27.1  
  
C:\Users\aluno10>  
  
A screenshot showing two windows side-by-side. The top window is a command prompt with the command 'ipconfig' run, displaying network configuration details for an Ethernet adapter. The bottom window is a File Explorer window showing a folder structure. It has a sidebar with 'File', 'Home', 'Share', and 'View' tabs. The main area shows a folder named 'Docs\_Profs' under 'DC-01'. A tooltip or status bar at the bottom of the window says 'Open with ->'. A 'Network Error' dialog box is overlaid on the window, stating 'Windows cannot access \\DC-01\Docs\_Profs' and 'You do not have permission to access \\DC-01\Docs\_Profs. Contact your network administrator to request access.' There is a 'Close' button at the bottom right of the dialog box.

## Backup

O backup é feito todos os dias a 01:00 da madrugada:



Aqui pode se notar que os backups ficam armazenados numa pasta chamada backup localizada no DFS:

The screenshot consists of two windows. The top window is a command prompt showing the output of the 'ipconfig' command. It lists network adapter details, with the IPv4 Address highlighted in yellow as '192.168.27.100'. The bottom window is a File Explorer window showing the directory structure. It has a sidebar with 'Quick access', 'Desktop', and other icons. The main area shows a folder named 'Backups' under 'This PC > Local Disk (C:)'. Inside 'Backups', there is a single item named 'WindowsImageBackup' with a date modified of '25/01/2025 00:32'.

O administrador também pode ver os eventos que ocorrem no sistema

Tentativa de eliminação de ficheiros (conseguidas ou falhadas):

The screenshot shows the Windows Event Viewer interface. The left pane displays navigation options like Event Viewer (Local), Custom Views, Windows Logs (with Application, Security, Setup, System, Forwarded Events selected), Applications and Services Logs, and Subscriptions. The right pane is titled 'Security' with the message 'Number of events: 20,472'. It lists several events, with the last one highlighted:

Keywords	Date and Time	Source	Event ID	Task C...
Audi...	1/25/2025 2:38:10 AM	Micros...	4663	File Sy...
Audi...	1/25/2025 2:38:40 AM	Micros...	4663	File Sy...
Audi...	1/25/2025 1:38:40 AM	Micros...	4663	File Sy...
Audi...	1/25/2025 1:38:21 AM	Micros...	4659	File Sy...
Audi...	1/25/2025 1:38:16 AM	Micros...	4663	File Sy...
Audi...	1/25/2025 1:37:47 AM	Micros...	4688	Proce...
Audi...	1/25/2025 1:37:47 AM	Micros...	4688	Proce...
...	...	...	...	...

A detailed view of event 4659 is shown in a modal window, with the message: 'A handle to an object was requested with intent to delete.' under the 'General' tab.

Tentativas falhadas de entrada no sistema

The screenshot shows the Windows Event Viewer interface. The left pane displays navigation options like Event Viewer (Local), Custom Views, Windows Logs (with Security selected), Applications and Services Logs, and Subscriptions. The right pane is titled 'Security' with the message 'Number of events: 20,654 (!) New events available'. It lists several events, with the last one highlighted:

Keywords	Date and Time	Source	Event ID	Task C...
Audit Success	1/25/2025 5:28:42 PM	Micros...	4769	Kerber...
Audit Success	1/25/2025 5:28:42 PM	Micros...	4769	Kerber...
Audit Success	1/25/2025 5:28:42 PM	Micros...	4768	Kerber...
<b>Audit Failure</b>	<b>1/25/2025 5:28:38 PM</b>	<b>Micros...</b>	<b>4771</b>	<b>Kerber...</b>
Audit Success	1/25/2025 5:28:26 PM	Micros...	4769	Kerber...
Audit Success	1/25/2025 5:28:09 PM	Micros...	4769	Kerber...

A detailed view of event 4771 is shown in a modal window, with the message: 'Kerberos pre-authentication failed.' under the 'General' tab. It also displays account information (Security ID: DOMINIOOMT\aluno10, Account Name: aluno10), service information (Service Name: krbtgt/DOMINIOOMT), and network information (Client Address: ::ffff:192.168.27.50, Client Port: 50076).

## Distribuição e disponibilização de software pelos postos de trabalho:

The screenshot shows the Group Policy Management Editor window. On the left, there's a navigation pane with a tree structure: 'winzip installer [DC-01.DOMAIN]' is expanded, showing 'Computer Configuration' and 'Software Settings'. Under 'Software Settings', 'Software installations' is selected. On the right, a table lists software packages with columns for Name, Version, Deployment status, and Source. Two entries are shown: 'WinZip Command Line...' version 6.0, assigned to 'Assigned' status with source 'C:\software\_dist\wzcline60-64.msi'; and another entry for the same package with source '\\DC-01\software\_dist\wzcline60-64.msi'.

Name	Version	Deployment st...	Source
WinZip Command Lin...	6.0	Assigned	C:\software_dist\wzcline60-64.msi
WinZip Command Lin...	6.0	Assigned	\DC-01\software_dist\wzcline60-...

Também implementei uma configuração extra onde é só aceder a um ficheiro no DC-01 nominado login onde mostra a hora e data que qualquer cliente logou na rede:

The screenshot shows a 'Login - Notepad' window. The menu bar includes 'File', 'Edit', 'Format', 'View', and 'Help'. The main content area displays a log of logins:

```
DC-01 Administrator Sat 01/25/2025 17:15:43.78
DC-01 Administrator Sun 01/26/2025 20:22:27.94
DC-01 Administrator Sun 01/26/2025 22:58:37.96
```

Esse ficheiro é preenchido automaticamente após cada login no sistema.