Índice

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

Internet
10.0.2.15

DC-01
192.168.27.1

DFS
192.168.127.100

ClienteWindows
192.168.27.50

Cliente Linux
192.168.27.51

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

ASS1

Windows_Server DFS
Desligada

Windows_10
Desligada

Windows_Server DC
Em execução

cliente_linux
Desligada
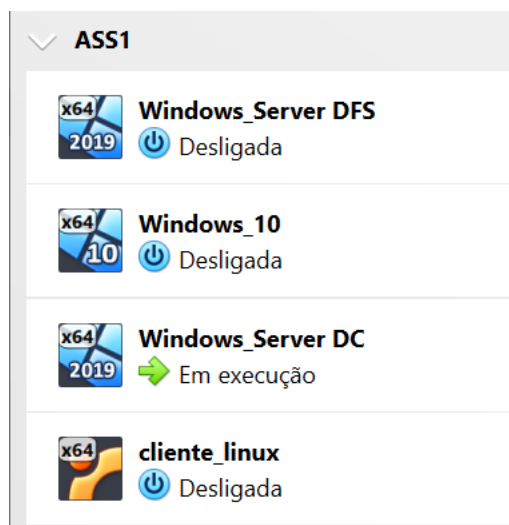
Endereçamento da rede

- ## 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 . . . . . . . . . :

C:\Users\Administrator>
```

- **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>
```
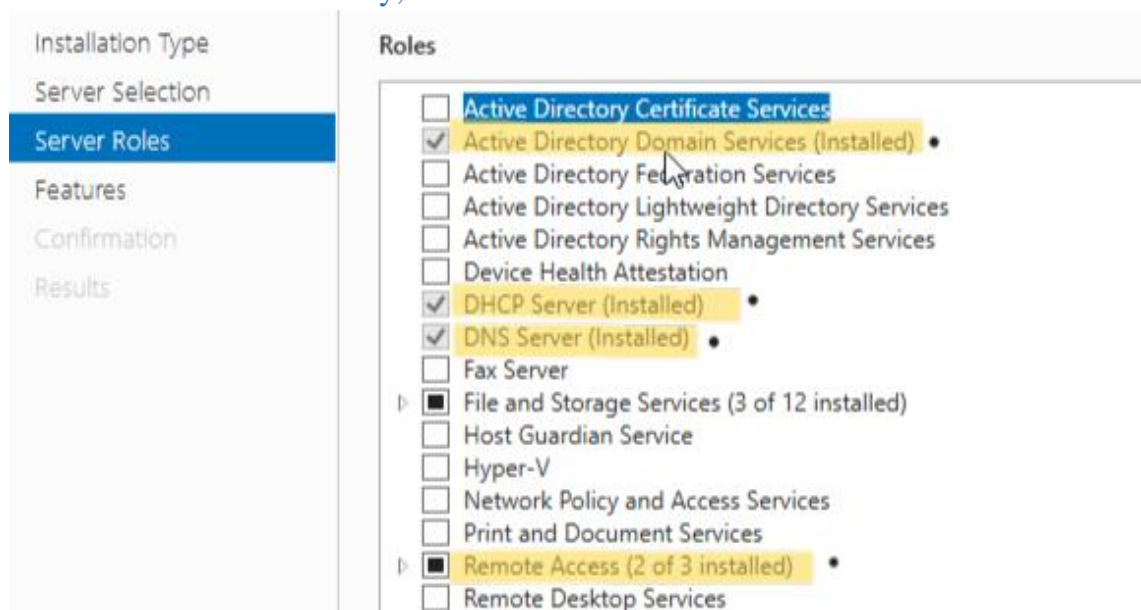
- Cliente Linux

```
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 10
00
    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

Installation Type	Roles
Server Selection	☐ Active Directory Certificate Services
Server Roles	☑ Active Directory Domain Services (Installed) •
Features	☐ Active Directory Federation Services
Confirmation	☐ Active Directory Lightweight Directory Services
Results	☐ Active Directory Rights Management Services
	☐ Device Health Attestation
	☑ DHCP Server (Installed) •
	☑ DNS Server (Installed) •
	☐ Fax Server
	▷ ◼ File and Storage Services (3 of 12 installed)
	☐ Host Guardian Service
	☐ Hyper-V
	☐ Network Policy and Access Services
	☐ Print and Document Services
	▷ ◼ Remote Access (2 of 3 installed) •
	☐ Remote Desktop Services

Alteração do nome do computador para: DC-01;
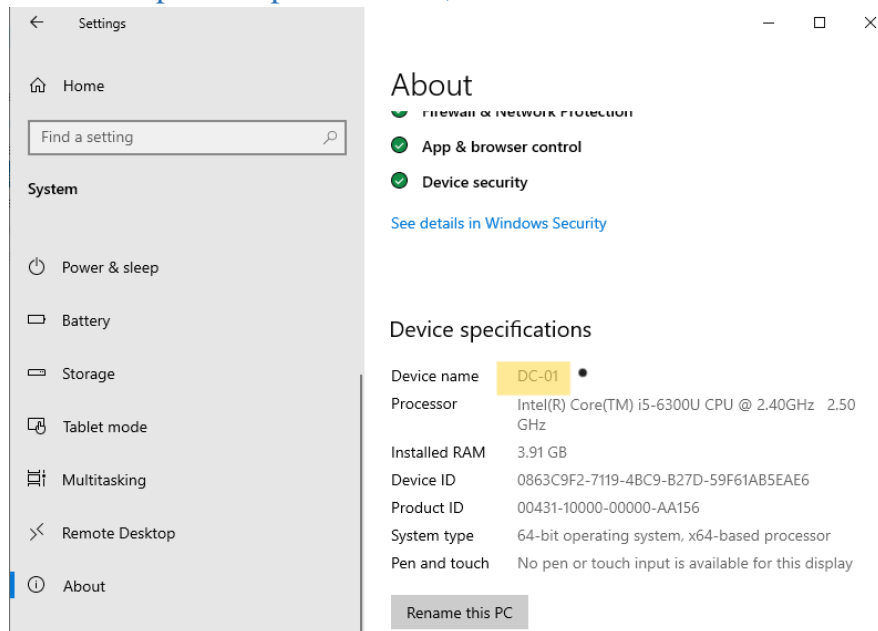
Criação do domínio
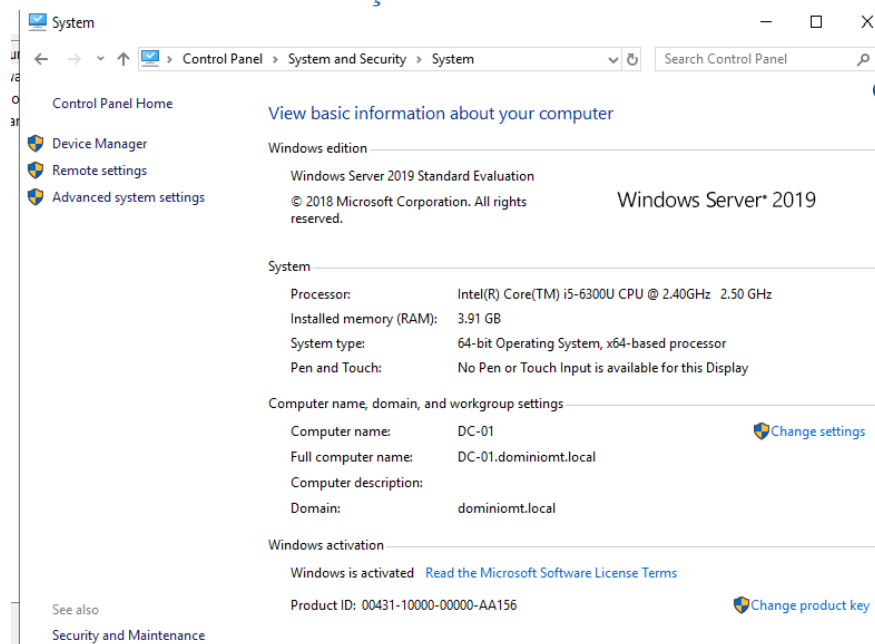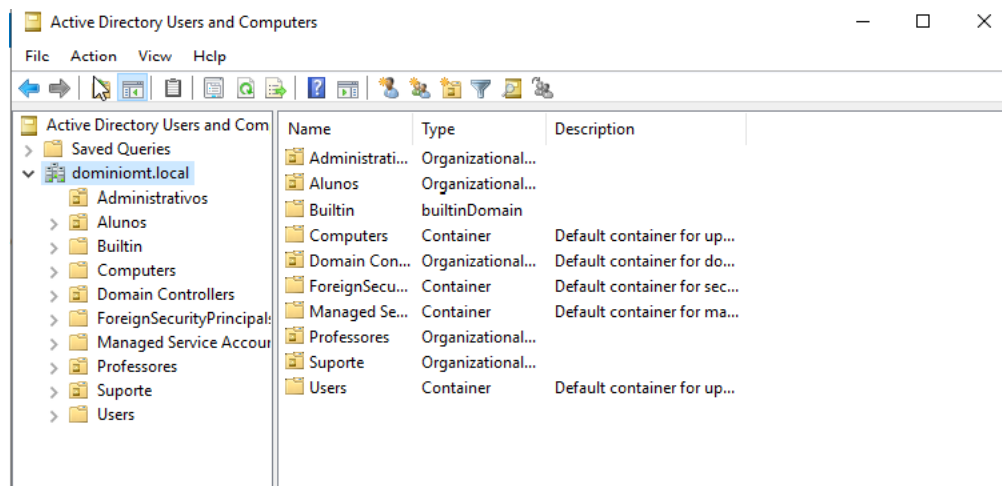
Configuração do DHCP

Configuração do DNS

Servidor DFS

Instalação de serviços DFS E replicação no servidor

DFS no domínio

Validação da conectividade do cliente Windows

# Cliente Windows no domínio
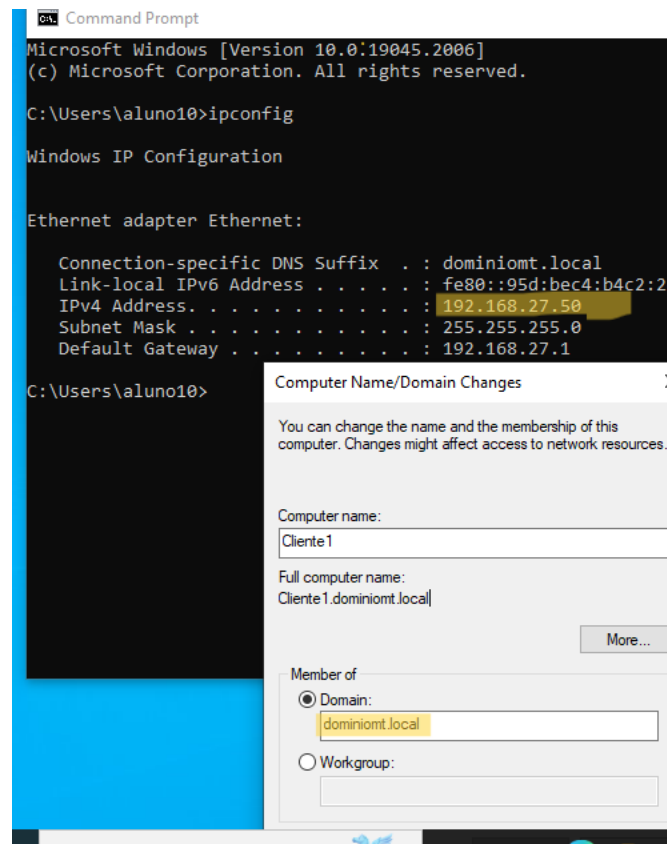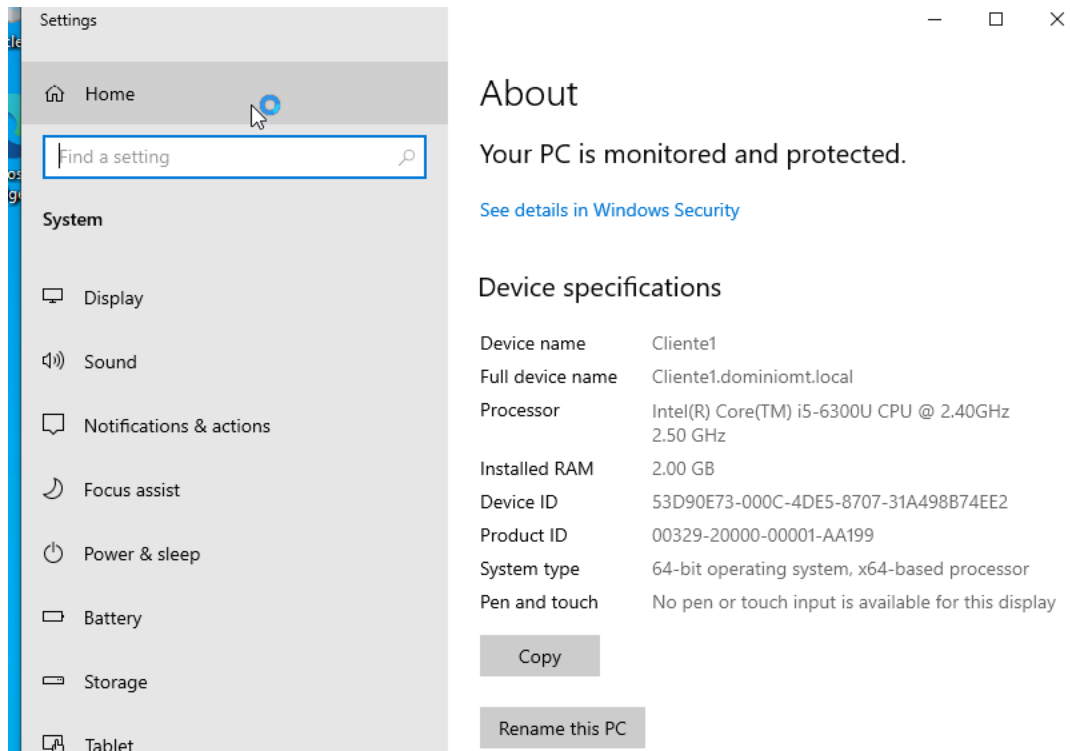
Cliente Linux no domínio

```
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
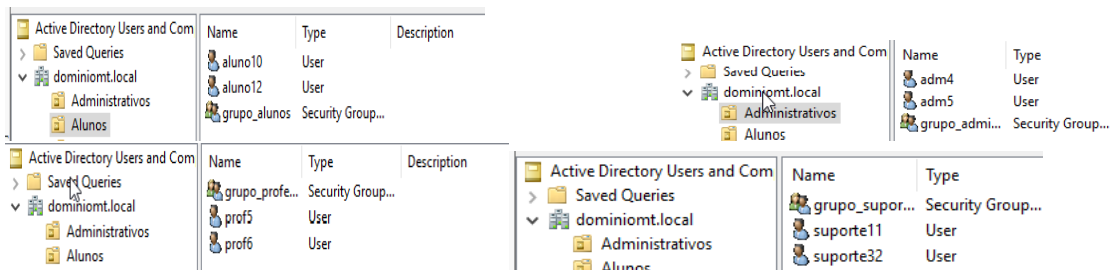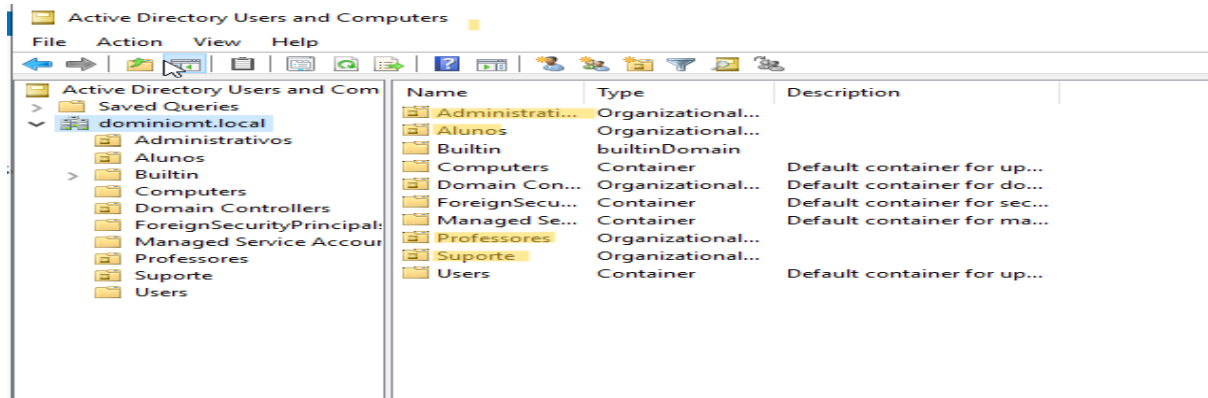
As contas dos utilizadores devem seguir os seguintes requisitos:
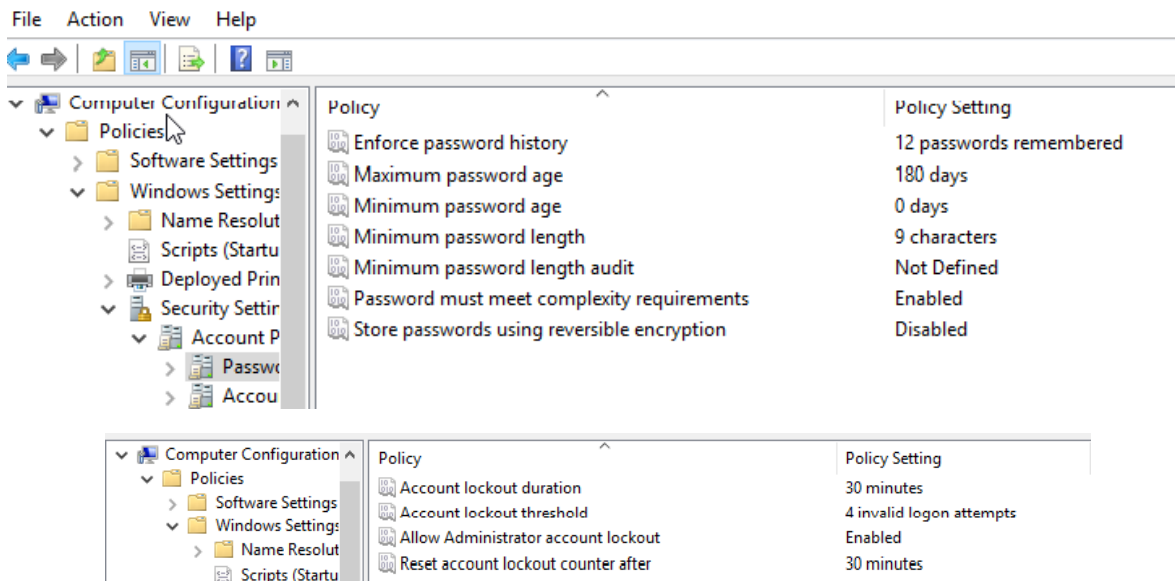
Exemplo de uma pasta partilhada onde podia ser acessível a todos os clientes:
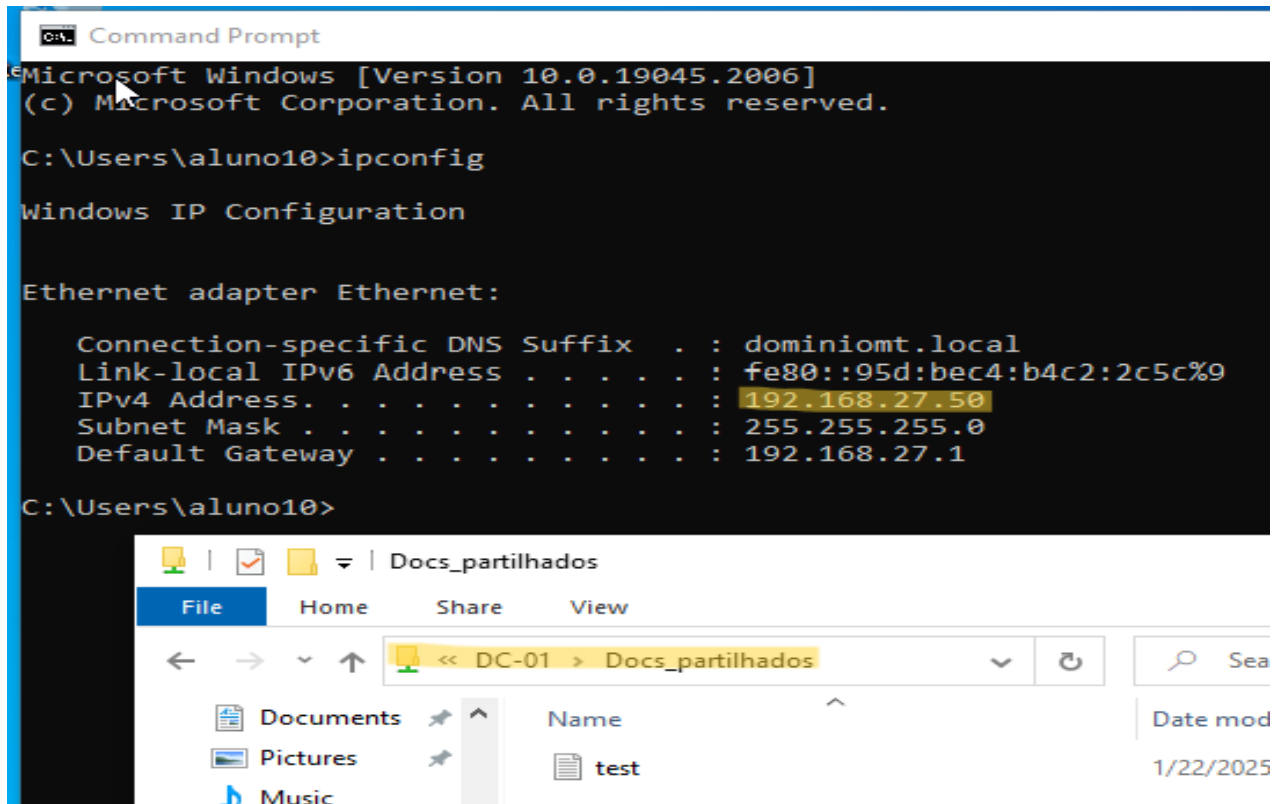
Os utilizadores do grupo administrativos deverão ter algumas configurações especiais nas suas contas, nomeadamente:

Apenas estão autorizados a utilizar os computadores das 09h00 às 19h00, findo esse período a sessão deverá ser terminada automaticamente
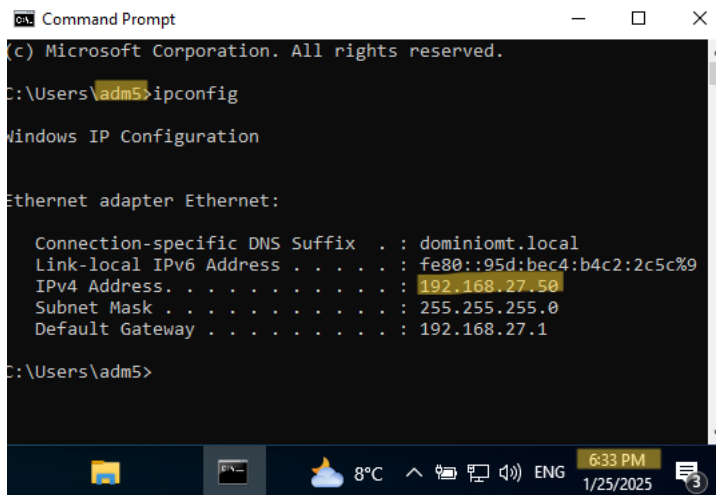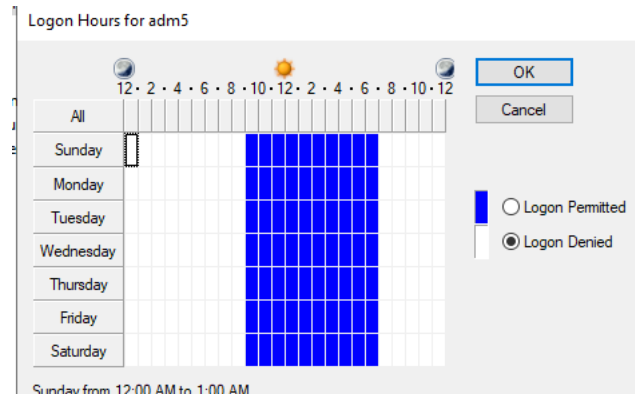
Aqui nota-se que é possível estar logado sem nenhum problema no período entre as 09h até as 19h.
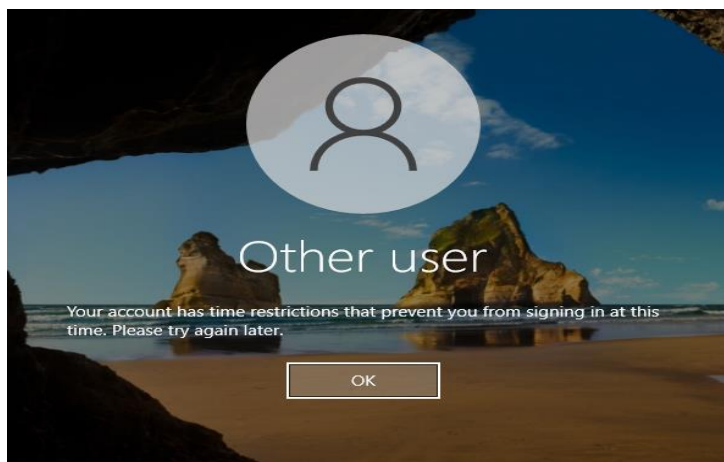
Já fora desse período não é possível aceder a contas administrativas.
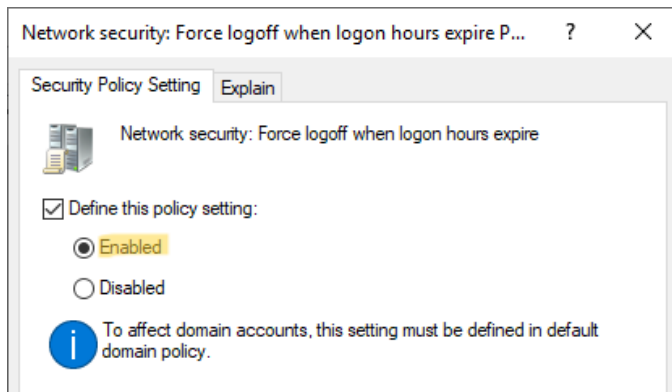
Logout automático após atingir o horário.

Neste exemplo o utilizador adm5(um dos utilizadores do grupo administrativos) não tem acesso ao painel de controlo.
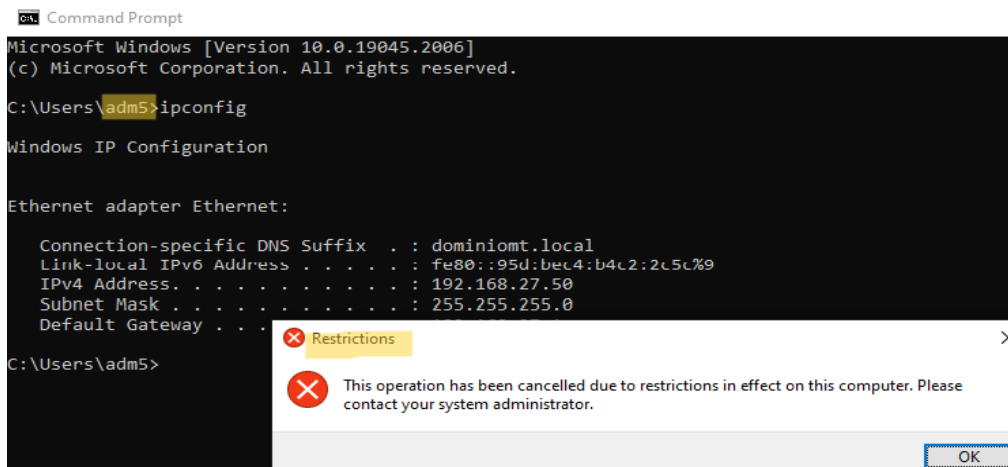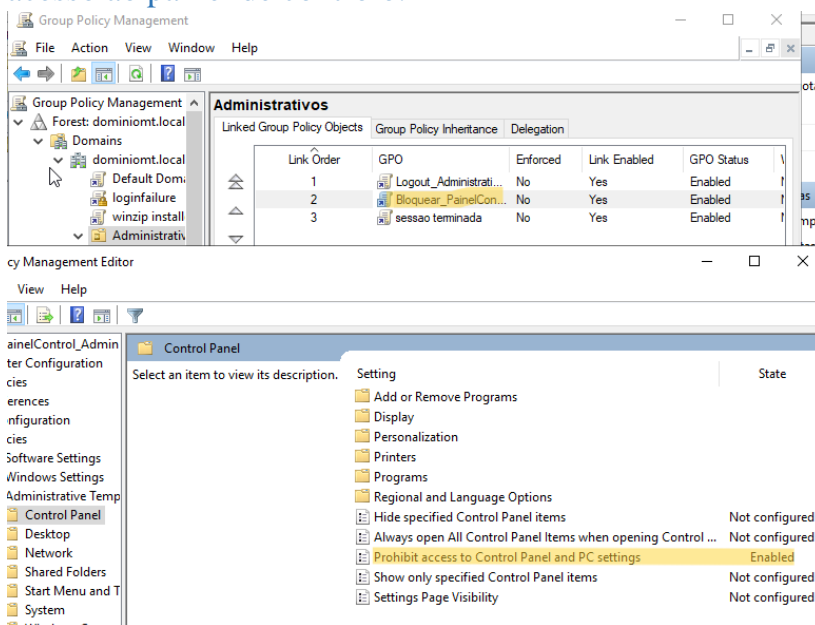
Deverá existir limitação no espaço ocupado por cada utilizador no servidor, tendo em conta os seguintes requisitos:

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

Aviso que o utilizador excedeu 85% do limite imposto:

Apenas os professores têm acesso a pasta partilhada Docs_Profs

Aqui dá pa ver que qualquer utilizador que não seja professor já não têm acesso a Docs_Profs:
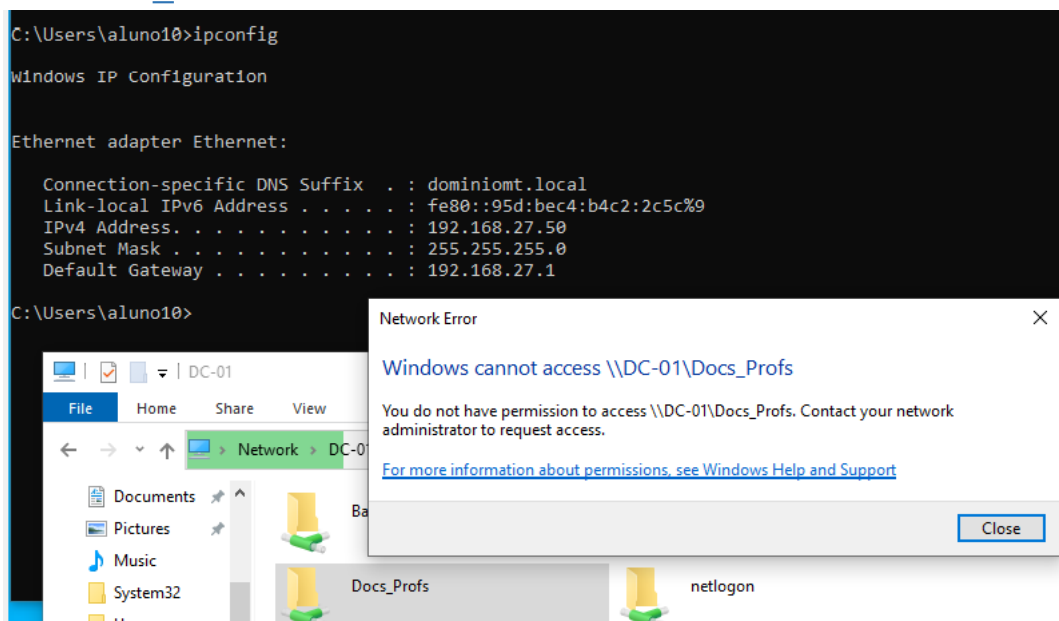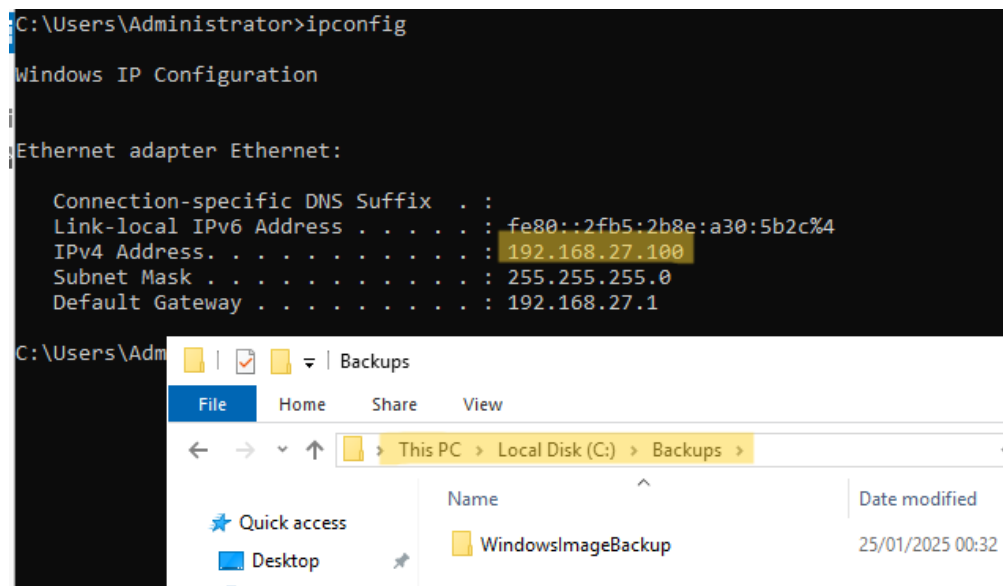
Backup

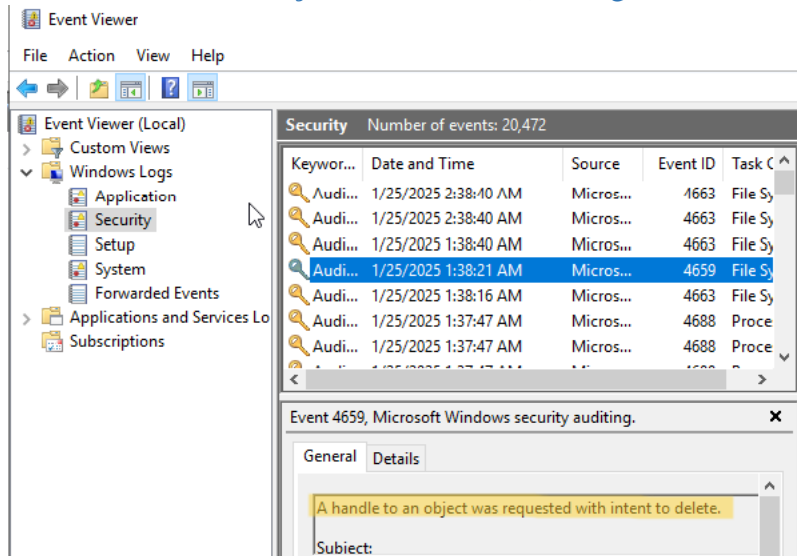O backup é feito todos os dias a 01:00 da madrugada:
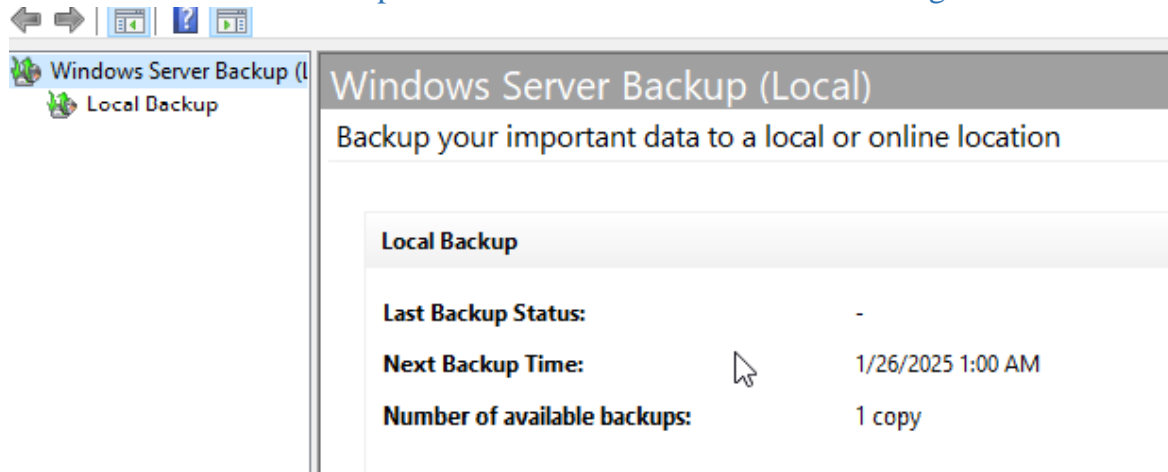
Aqui pode se notar que os backups ficam armazenados numa pasta chamada backup localizada no DFS:
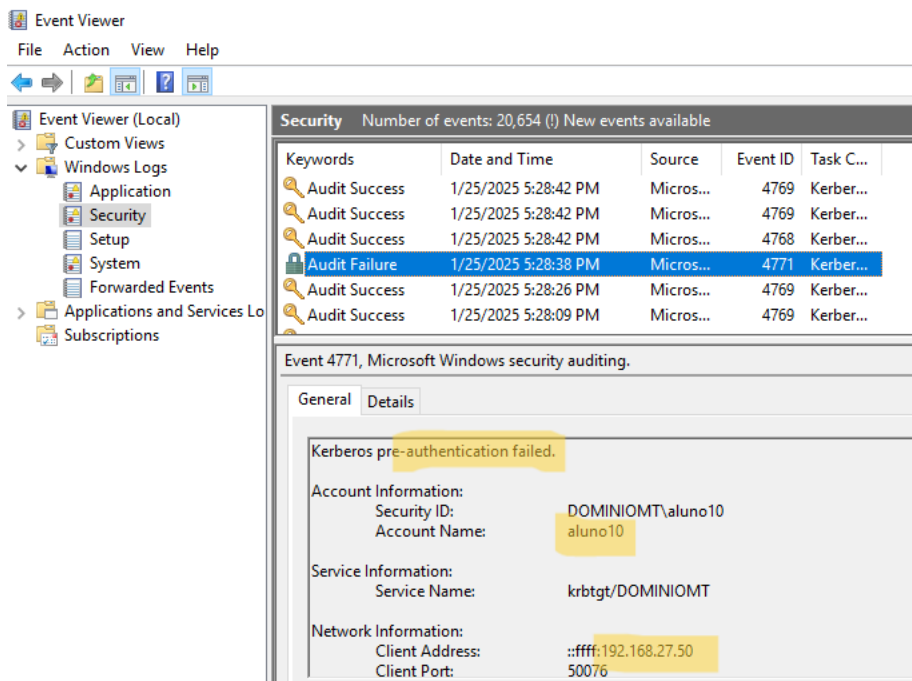
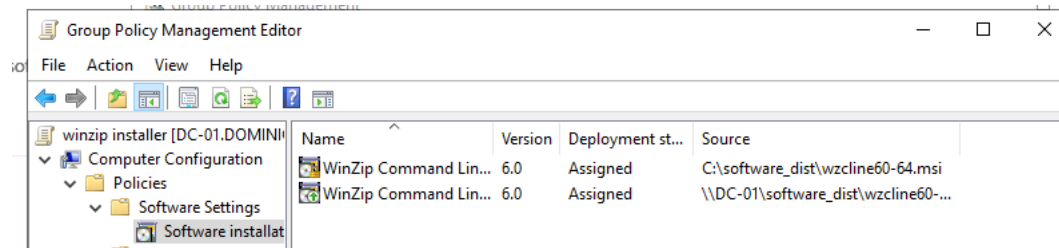# O administrador também pode ver os eventos que ocorrem no sistema

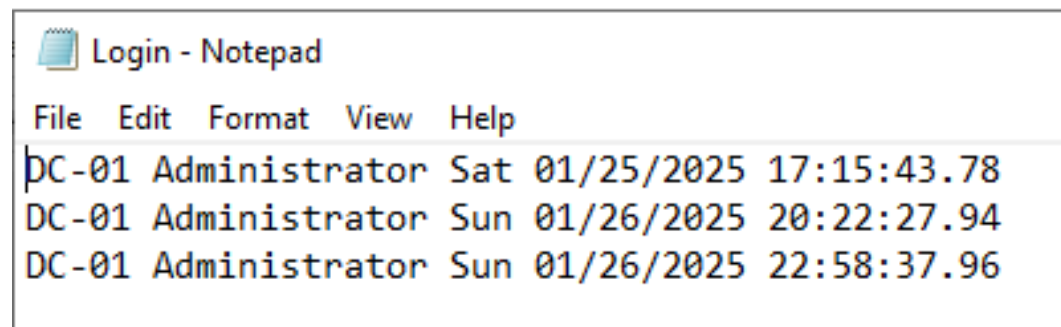## Tentativa de eliminação de ficheiros (conseguidas ou falhadas):

Tentativas falhadas de entrada no sistema

Distribuição e disponibilização de software pelos postos de trabalho:

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:

Esse ficheiro é preenchido automaticamente após cada login no sistema.