Úloha 1

```
C:\Users\Administrator>net user user1 Heslo123456 /add
The command completed successfully.


C:\Users\Administrator>net localgroup Users user1 /add
System error 1378 has occurred.

The specified account name is already a member of the group.
```
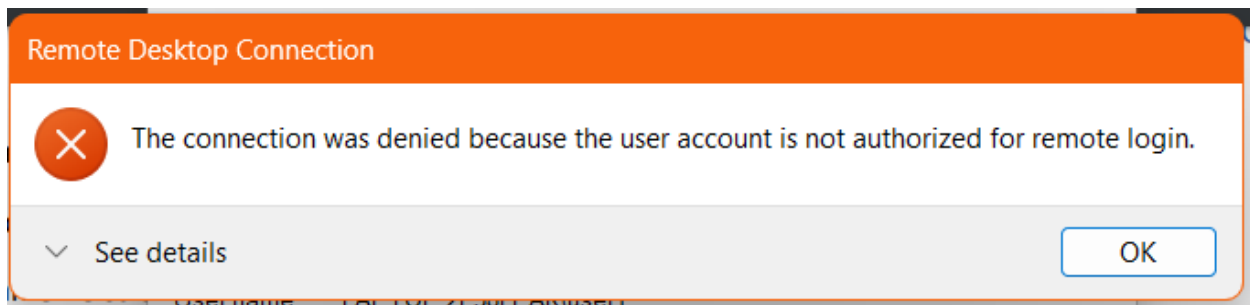
```
C:\Users\Administrator>net user user1
User name                    user1
Full Name
Comment
User's comment
Country/region code          000 (System Default)
Account active               Yes
Account expires              Never

Password last set            28. 10. 2024 15:29:13
Password expires             9. 12. 2024 15:29:13
Password changeable          28. 10. 2024 15:29:13
Password required            Yes
User may change password     Yes

Workstations allowed         All
Logon script
User profile
Home directory
Last logon                   Never

Logon hours allowed          All

Local Group Memberships      *Users
Global Group memberships     *None
The command completed successfully.
```

Remote Desktop Connection

❌ The connection was denied because the user account is not authorized for remote login.

∨ See details   OK

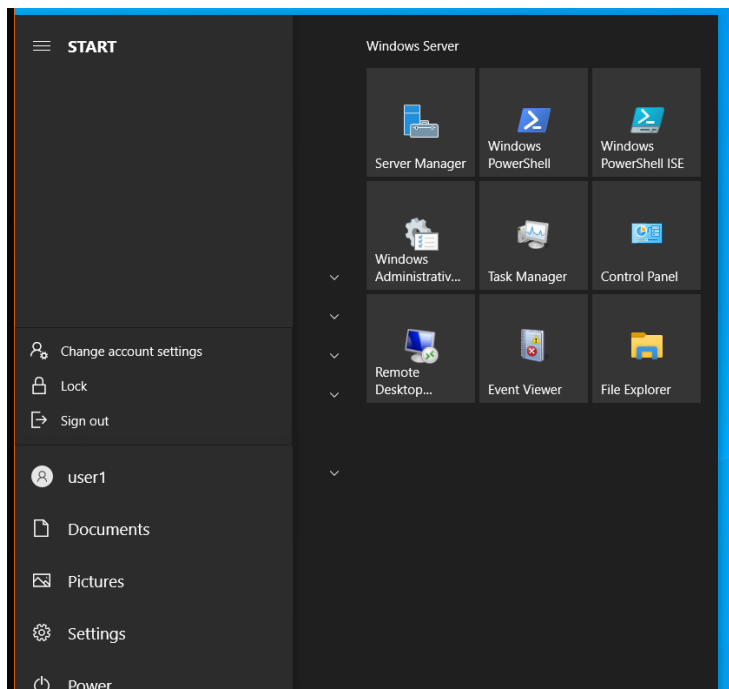Nedá sa prihlásiť pretože niesú nastavené permissions.

Pridame ho do skupiny "Remote Desktop Users"

net localgroup "Remote Desktop Users" user1 /add

```
C:\Users\Administrator>net localgroup "Remote Desktop Users"
Alias name       Remote Desktop Users
Comment          Members in this group are granted the right to logon remotely

Members

-------------------------------------------------------------------------------
user1
The command completed successfully.
```

Teraz sa da prihlasit

Úloha 2

V powershelli napiseme prikaz:

Rename-Computer -NewName "ADDC" -Restart

Chcel som najprv cez powershell zmenit na staticku cez tento prikaz ale nepustilo ma to lebo powerhsell:

New-NetIPAddress -InterfaceAlias "tap40166680-84" -IPAddress "10.103.1.50" -PrefixLength 16 -DefaultGateway "10.103.0.1"

Tak som to zmenil cez GUI a to uz islo
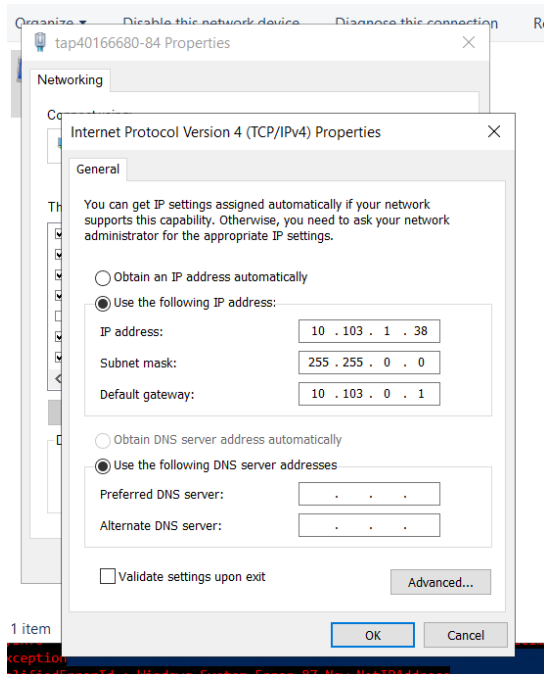
```
PS C:\Users\Administrator> Install-WindowsFeature AD-Domain-Services -IncludeManagementTools
>>

Success Restart Needed Exit Code      Feature Result
------- -------------- ---------      --------------
True    No             Success        {Active Directory Domain Services, Group P...


PS C:\Users\Administrator> Install-WindowsFeature DNS -IncludeManagementTools
>>

Success Restart Needed Exit Code      Feature Result
------- -------------- ---------      --------------
True    No             Success        {DNS Server, DNS Server Tools}
```

Nainstalovane

Promotovanie:

```
Install-ADDSForest

   Validating environment and user input
      Verifying prerequisites for domain controller operation…
      [                                                                                   ]

   IPv4 Address. . . . . . . . . . . : 10.103.1.38(Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.0.0
   Default Gateway . . . . . . . . . : 10.103.0.1
   DHCPv6 IAID . . . . . . . . . . . : 284881175
   DHCPv6 Client DUID. . . . . . . . : 00-01-00-01-2C-A5-50-85-52-54-00-E3-A1-96
   DNS Servers . . . . . . . . . . . : fec0:0:0:ffff::1%1
                                       fec0:0:0:ffff::2%1
                                       fec0:0:0:ffff::3%1
   NetBIOS over Tcpip. . . . . . . . : Enabled
PS C:\Users\Administrator> Install-WindowsFeature AD-Domain-Services -IncludeManagementTools
>>

Success Restart Needed Exit Code      Feature Result
------- -------------- ---------      --------------
True    No             Success        {Active Directory Domain Services, Group P...


PS C:\Users\Administrator> Install-WindowsFeature DNS -IncludeManagementTools
>>

Success Restart Needed Exit Code      Feature Result
------- -------------- ---------      --------------
True    No             Success        {DNS Server, DNS Server Tools}


PS C:\Users\Administrator> Install-ADDSForest -DomainName "Norbert.local"
SafeModeAdministratorPassword: ***************
Confirm SafeModeAdministratorPassword: ***************

The target server will be configured as a domain controller and restarted when this operation is complete.
Do you want to continue with this operation?
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help (default is "Y"): Y
WARNING: Windows Server 2022 domain controllers have a default for the security setting named "Allow cryptography
algorithms compatible with Windows NT 4.0" that prevents weaker cryptography algorithms when establishing security
channel sessions.

For more information about this setting, see Knowledge Base article 942564
(http://go.microsoft.com/fwlink/?LinkId=104751).
```
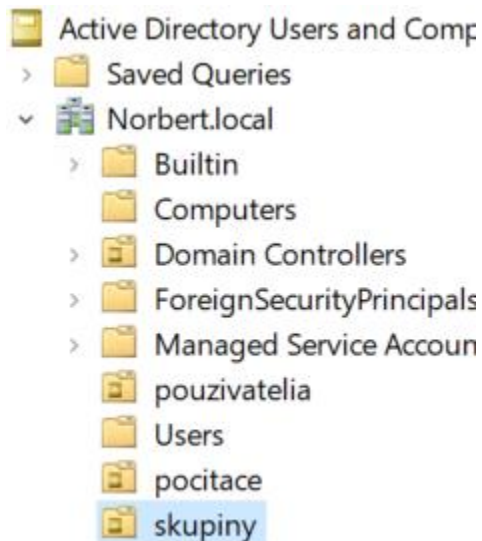
Zmenil som heslo lebo ma to promptlo ked sa restartovalo.

Zapisem si preistotu heslo sem: adm@PrBIT500??? (pridal som jeden otaznik)

Úloha 3

Organizacna struktura

Novy user:

Heslo bolo rejectnute takze musime zistit password policy nasledovne(je to jednoduchsie cez powershell):

```
PS C:\Users\Administrator> get-ADDefaultDomainPasswordPolicy


ComplexityEnabled           : True
DistinguishedName           : DC=Norbert,DC=local
LockoutDuration             : 00:10:00
LockoutObservationWindow    : 00:10:00
LockoutThreshold            : 0
MaxPasswordAge              : 42.00:00:00
MinPasswordAge              : 1.00:00:00
MinPasswordLength           : 7
objectClass                 : {domainDNS}
objectGuid                  : aba5e0d8-8d0b-4c01-9ade-4bc3256b4bd7
PasswordHistoryCount        : 24
ReversibleEncryptionEnabled : False
```

Heslo musi mat splnene aspon 3 z nasledovnych kategorii (ComplexityEnabled: True) uppercase, lowercase, cislo, specialny znak
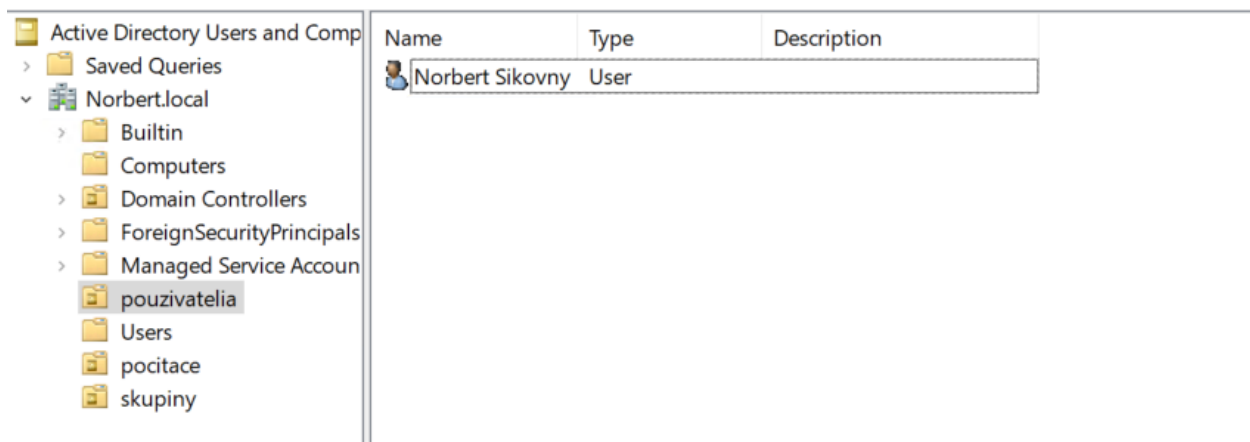
MinPasswordLength: 7

PasswordHistoryCount: 24 (poslednych 24 hesiel nemoze byt zopakovanych)

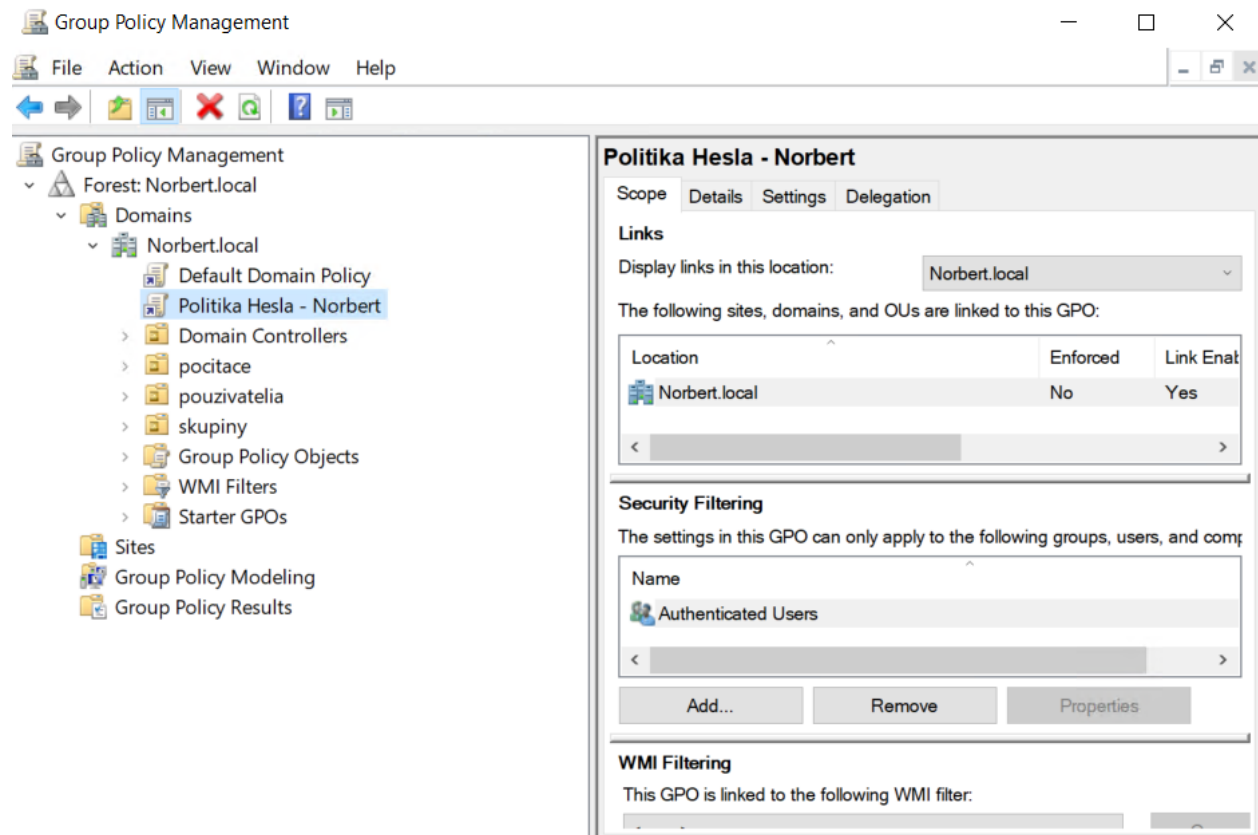MinPasswordAge: 1 (aspon jeden den ho nemozeme zmenit)

MaxPasswordAge: 42 (po 42 dnoch sa heslo musi zmenit)

Vyberieme si teda heslo: P@ssw0rd1

```
Active Directory Users and Comp     Name              Type     Description
> Saved Queries                      Norbert Sikovny   User
v Norbert.local
  > Builtin
    Computers
  > Domain Controllers
  > ForeignSecurityPrincipals
  > Managed Service Accoun
    pouzivatelia
    Users
    pocitace
    skupiny
```

User bol vytvoreny

Bonusova uloha

Vytvoril som novy group policy object

Kliknutim na edit ideme zmenit veci
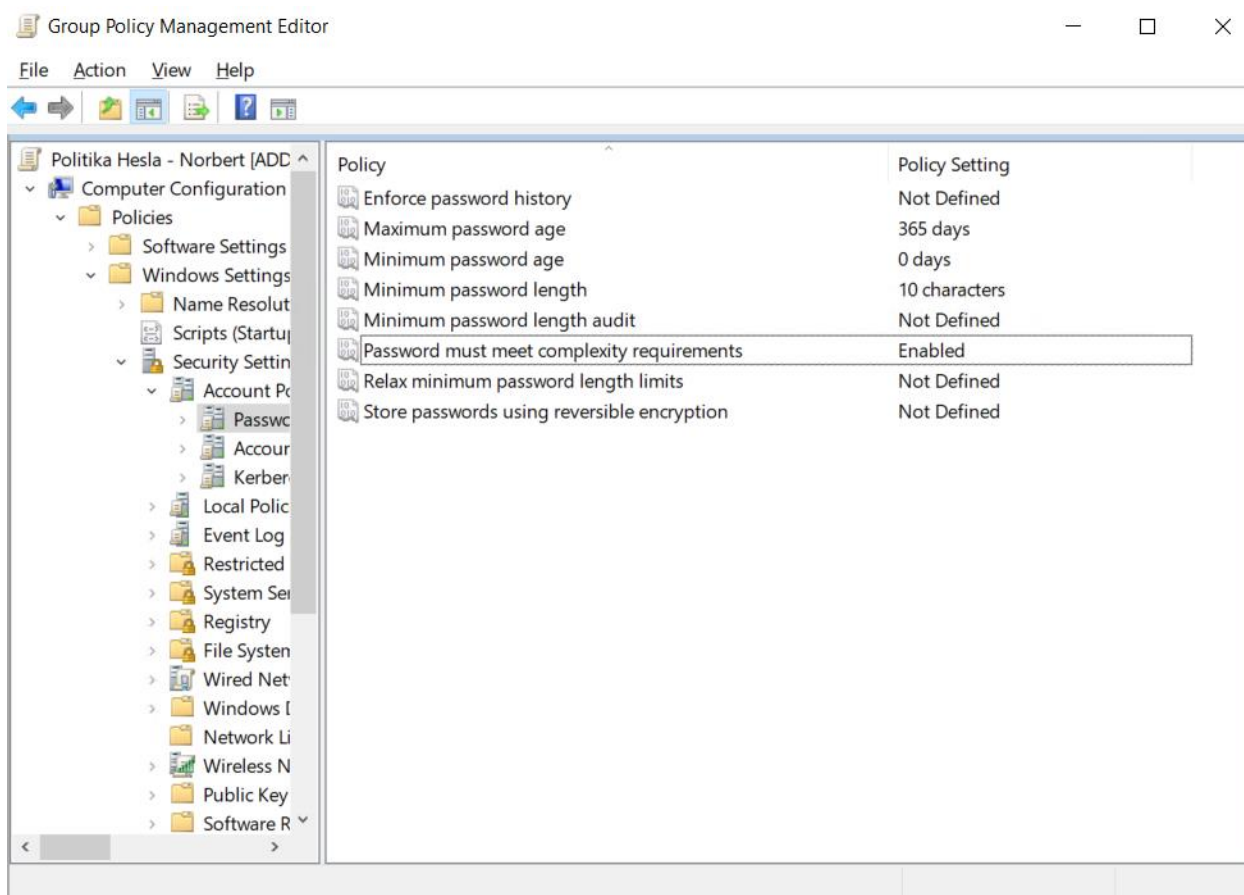
Komplexita hesla znamena ze heslo nemoze obsahovat meno pouzivatelovho uctu, alebo casti userovho celeho mena presahujuce dva za sebou iduce znaky, aspon 6 znakov dlhe, obsahuje znaky aspon z troch nasledovnych kategorii: uppercase, lowercase, cisla, specialne znaky.
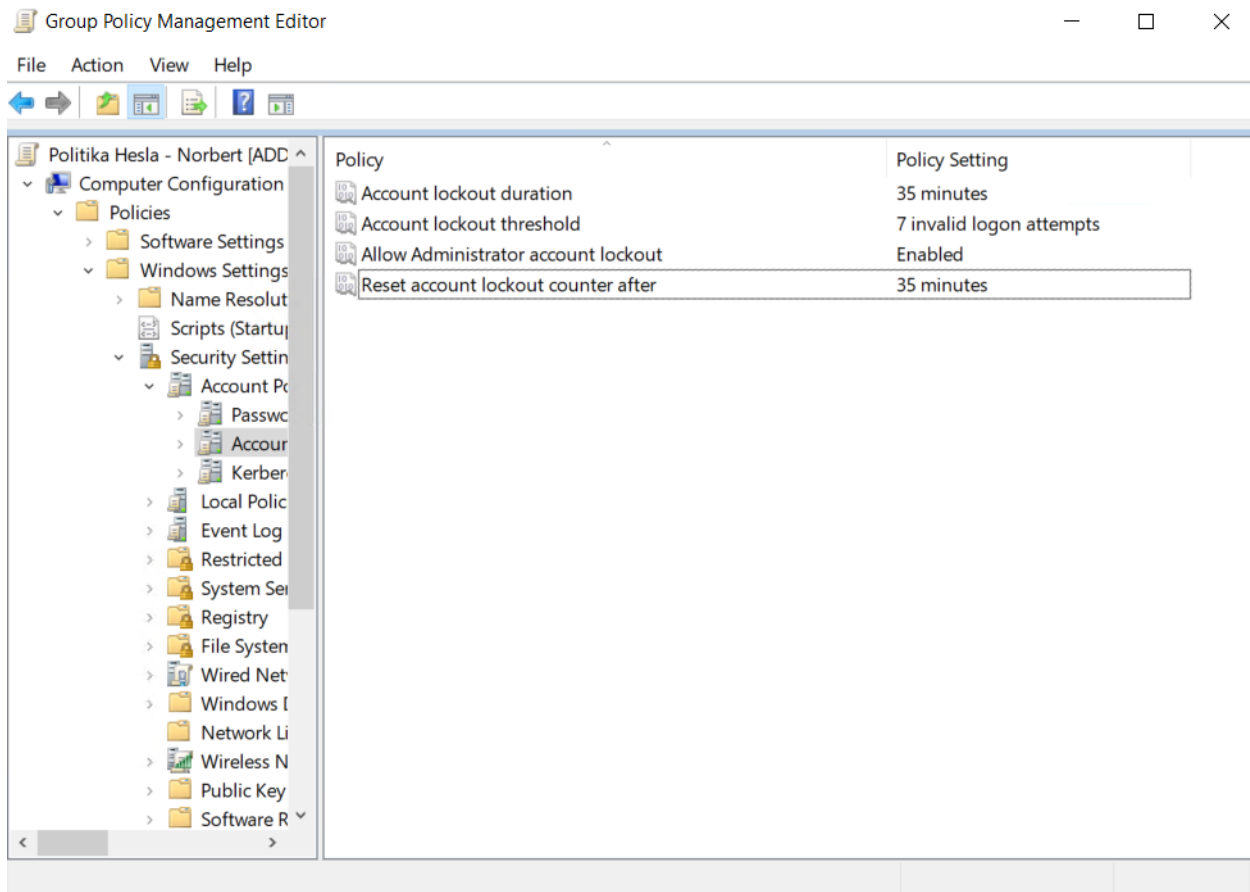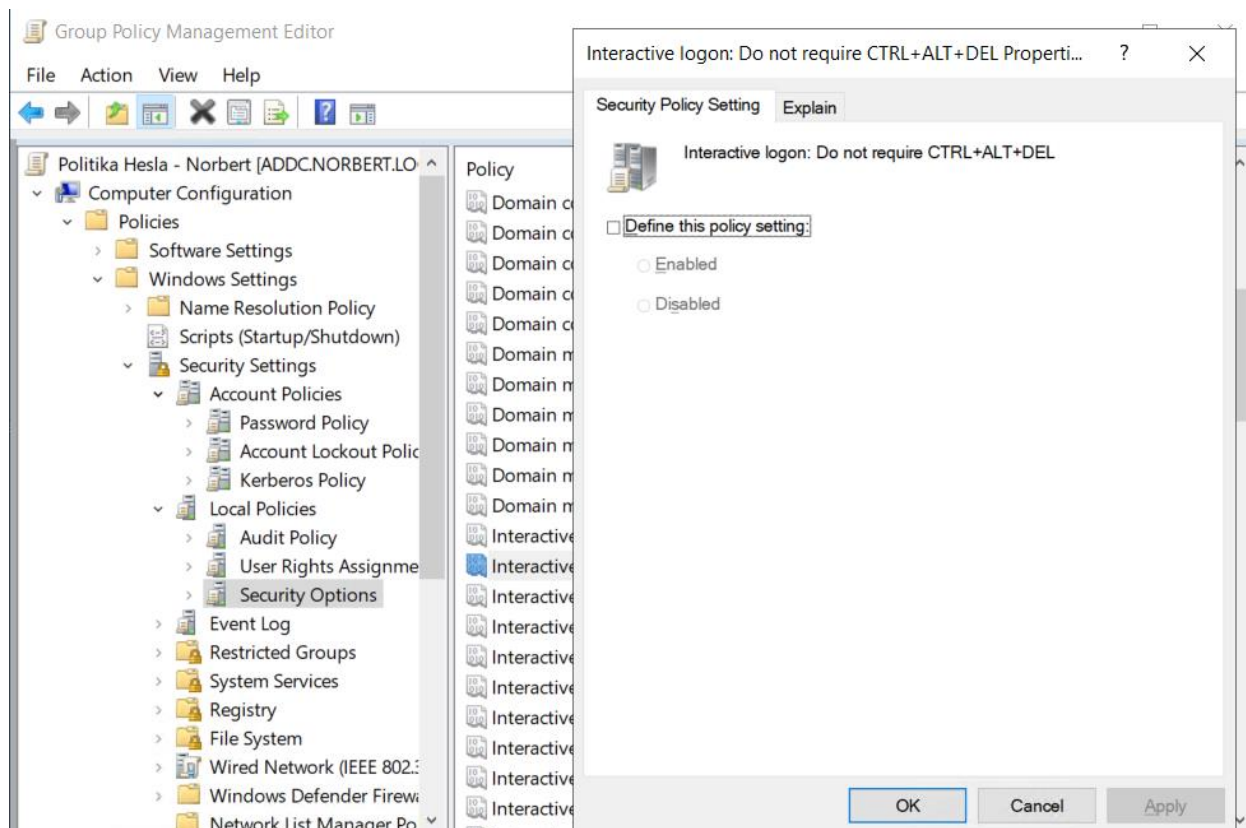
Administrator account lockout sa nastavilo same

Na aplikovanie politiky pouzijeme: gpupdate /force

Tento prikaz nepotrebuje restartovat server, pretoze /force-ne novu politiku

Nastavenie minimalnej doby platnosti hesla zabranuje pouzuvatelom aby si okamzite niekolkokrat zmenili heslo a mohli tak opakovane pouzivat svoje stare heslo

Pridava to vrstvu zabezpecenia. Zabezpecuje ze pouzivatelia pracuju s bezpecnou prihlasovacou obrazovkou Windows namiesto potencialne zlej prihlasovacej obrazovky