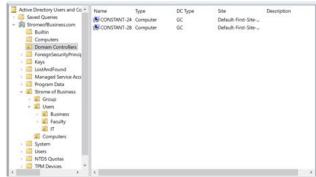
IT416 Advanced Network and Server Configuration Group Project By

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Our Domain name is **StromeofBusiness.com**, and it was created on a physical machine called **CONSTANT-28**

Our two domain controllers were configured on two separate physical machines named CONSTANT-24 and CONSTANT-28



We created 3 groups, named **Business**, **Faculty**, and **IT**. Each of these groups received ten users, each in a different unit container named after their respective groups.

The list of 30 names used for the users was created using the help of Chat GPT to generate random names. All of the names were then inserted on a spreadsheet, assigned a group, password, and their respective OU (organizational unit) or department.

Using a spreadsheet we imported every user in their respective groups, created prior within a domain controller. We imported the spreadsheet from a flash drive to a physical domain controller using the PowerShell command "Import-Csv "C:\temp\NewUsers.csv" -Delimiter ";"".

Following the import of the spreadsheet, we executed the following command:

Import-Module ActiveDirectory

\$ADUsers = Import-Csv "C:\temp\NewUsers.csv" -Delimiter ";"

\$UPN = "StromeofBuisness"

```
foreach ($User in $ADUsers) {
  try {
    # Define the parameters using a hashtable
    $UserParams = @{
                           = $User.username
      SamAccountName
      UserPrincipalName = "$($User.username)@$UPN"
      Name
                     = "$($User.firstname) $($User.lastname)"
      GivenName
                        = $User.firstname
      Surname
                      = $User.lastname
      Enabled
                     = $True
      DisplayName
                        = "$($User.firstname) $($User.lastname)"
      Path
                   = $User.ou #This field refers to the OU the user account is to be created
ino
      Department
                        = $User.department
                          = (ConvertTo-secureString $User.password -AsPlainText -Force)
      AccountPassword
      ChangePasswordAtLogon = $True
    if (Get-ADUser -Filter "SamAccountName -eq '$($User.username)"") {
      Write-Host "A user with username $($User.username) already exists in Active Directory."
-ForegroundColor Yellow
    else {
      New-ADUser @UserParams
      Write-Host "The user $($User.username) is created." -ForegroundColor Green
    }
  }
  catch {
    Write-Host "Failed to create user $($User.username) - $_" -ForegroundColor Red
 }
}
```

We found inspiration to create this PowerShell command on the website <a href="https://www.alitajran.com/create-active-directory-users-from-csv-with-powershell/#:~:text=Create%20Active%20Directory%20Users%20from%20CSV%20with%20PowerShell,the%20Add-NewUsers%20PowerShell%20script%20...%206%20Conclusion%20. The

file needed to be modified, as well as several command line to be able to execute our file. The final result imported all 30 users, classifying them into their respective groups.

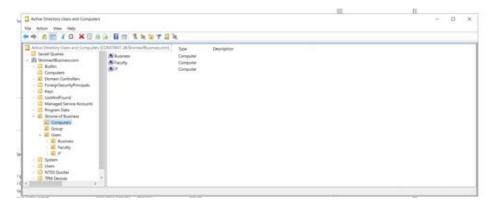
Here is the spreadsheet we came up with:

newusers - Sheet1

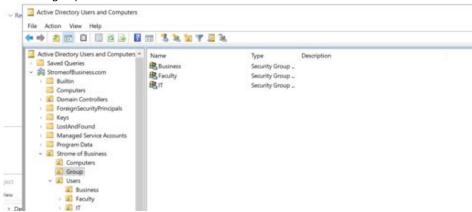
FirstName	LastName	Username	Password	Department	ou
Joe	Joe	Joe.Joe	Password01	п	OU=IT,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Emily	Johnson	Emily.Johnson	Password01	п	OU=IT,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Benjamin	Smith	Benjamin.Smith	Password01	п	OU=IT,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Sophia	Martinez	Sophia.Martinez	Password01	п	OU=IT,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Ethan	Davis	Ethan.Devis	Password01	п	OU=IT,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Olivia	Brown	Olivia.Brown	Password01	п	OU=IT,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Michael	Anderson	Michael.Anderson	Password01	п	OU=IT,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Ava	Wilson	Ava.Wilson	Password01	п	OU=IT,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
William	Taylor	William.Taylor	Password01	п	OU=IT,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Isabella	Thomas	Isabella.Thomas	Password01	Buisness	OU=Business,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=cor
James	Garcia	James.Garcia	Password01	Buisness	OU=Business,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=cor
Mia	Hernandez	Mia.Hernandez	Password01	Buisness	OU=Business,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=cor
Alexander	Lopez	Alexander Lopez	Password01	Buisness	OU-Business,OU-Users,OU-Strome of Business,DC-StromeofBusiness,DC-cor
Charlotte	Gonzalez	Charlotte.Gonzalez	Password01	Buisness	OU-Business,OU-Users,OU-Strome of Business,DC-StromeofBusiness,DC-cor
Daniel	Lee	Daniel Lee	Password01	Buisness	OU=Business,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=cor
Amelia	Clark	Amelia.Clark	Password01	Buisness	OU=Business,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=cor
Matthew	Rodriguez	Matthew.Rodriguez	Password01	Buisness	OU-Business,OU-Users,OU-Strome of Business,DC-StromeofBusiness,DC-cor
Harper	Lewis	Harper.Lewis	Password01	Buisness	OU-Business,OU-Users,OU-Strome of Business,DC-StromeofBusiness,DC-cor
Samuel	Hall	Samuel.Hall	Password01	Buisness	OU=Business,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=cor
Evelyn	Walker	Evelyn.Walker	Password01	Faculty	OU=Faculty,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Joseph	Perez	Joseph.Perez	Password01	Faculty	OU-Faculty,OU-Users,OU-Strome of Business,DC-StromeofBusiness,DC-com
Abigail	Young	Abigall.Young	Password01	Faculty	OU-Faculty,OU-Users,OU-Strome of Business,DC-StromeofBusiness,DC-com
Christopher	Moore	Christopher.Moore	Password01	Faculty	OU-Faculty,OU-Users,OU-Strome of Business,DC-StromeofBusiness,DC-com
Elizabeth	Martin	Elizabeth.Martin	Password01	Faculty	OU=Faculty,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
David	White	David.White	Password01	Faculty	OU=Faculty,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Scarlett	Hill	Scarlett.Hill	Password01	Faculty	OU-Faculty,OU-Users,OU-Strome of Business,DC-StromeofBusiness,DC-com
Andrew	Turner	Andrew.Turner	Password01	Faculty	OU=Faculty,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Madison	Scott	Madison.Scott	Password01	Faculty	OU=Faculty,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Joshua	Adams	Joshua.Adams	Password01	Faculty	OU=Faculty,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
Victoria	Green	Victoria Green	Password01	Faculty	OU=Faculty,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com
John	Carter	John.Carter	Password01	Faculty	OU=Faculty,OU=Users,OU=Strome of Business,DC=StromeofBusiness,DC=com

We found the OU of each user by going into the attribute editor of each group and finding the path.

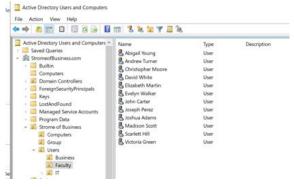
The three computers were created for each group. Faculty has access to all of them:



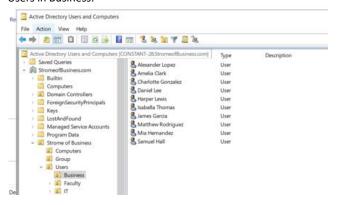
The three groups:



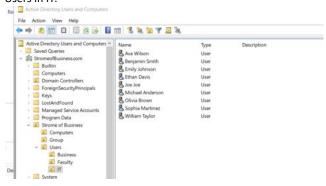
Users in Faculty:



Users in Business:



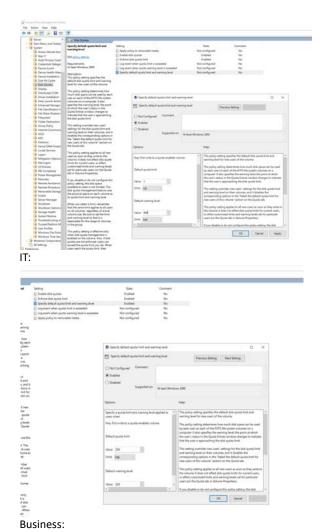
Users in IT:

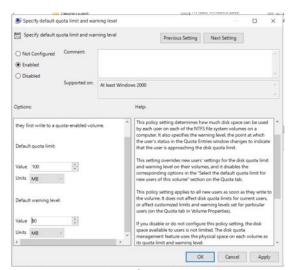


The quotas for each group:



Here is the quota policy for each group. Faculty:

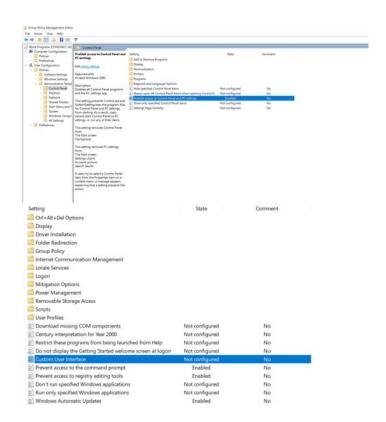




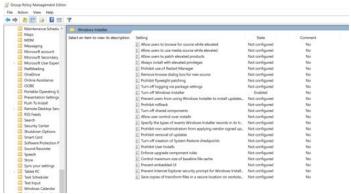
We had to create policies for each group, impacting every user in their respective groups. Using the Group Policy Management, we could create and edit all of the policies, as well as enforce them to its individual groups and users.

All the computers received the same policy, preventing them from modifying any critical components, preventing access to the control panel, and ensuring that no unwarranted access happens:





IT and Business were restricted from installing program on their respective computers:



The Faculty received further roles and permission, for example, they were allowed to install and remove programs:

