

Solution M3: Active Directory

Tasks can be solved both using the **GUI** approach or the command line. Because here we have repetitive tasks it would be better to use the latter approach

All commands that follow are executed on the domain controller in a **PowerShell** session in administrative mode

One possible solution to the homework, following the **PowerShell** principles, could be:

1. Prepare the required OUs:

```
New-ADOrganizationalUnit "Sales Gurus";  
New-ADOrganizationalUnit "Sofia" -Path "OU=Sales Gurus, DC=WSA, DC=LAB";  
New-ADOrganizationalUnit "Supervisors" -Path "OU=Sofia, OU=Sales Gurus, DC=WSA, DC=LAB";  
New-ADOrganizationalUnit "Staff" -Path "OU=Sofia, OU=Sales Gurus, DC=WSA, DC=LAB";  
New-ADOrganizationalUnit "Varna" -Path "OU=Sales Gurus, DC=WSA, DC=LAB";  
New-ADOrganizationalUnit "Supervisors" -Path "OU=Varna, OU=Sales Gurus, DC=WSA, DC=LAB";  
New-ADOrganizationalUnit "Staff" -Path "OU=Varna, OU=Sales Gurus, DC=WSA, DC=LAB";
```

2. Create the required user accounts:

```
New-ADUser -Name ivan.ivanov `
-AccountPassword (ConvertTo-SecureString -AsPlainText "Password1" -Force) `
-DisplayName "Ivan Ivanov" -Enabled $true `
-GivenName Ivan -Surname Ivanov `
-UserPrincipalName ivan.ivanov@WSA.LAB `
-Path "OU=Supervisors, OU=Sofia, OU=Sales Gurus, DC=WSA, DC=LAB";  
New-ADUser -Name trayana.stoeva `
-AccountPassword (ConvertTo-SecureString -AsPlainText "Password1" -Force) `
-DisplayName "Trayana Stoeva" -Enabled $true `
-GivenName Trayana -Surname Stoeva `
-UserPrincipalName trayana.stoeva@WSA.LAB `
-Path "OU=Staff, OU=Sofia, OU=Sales Gurus, DC=WSA, DC=LAB";  
New-ADUser -Name grigor.tishev `
-AccountPassword (ConvertTo-SecureString -AsPlainText "Password1" -Force) `
-DisplayName "Grigor Tishev" -Enabled $true `
-GivenName Grigor -Surname Tishev `
-UserPrincipalName grigor.tishev@WSA.LAB `
-Path "OU=Staff, OU=Sofia, OU=Sales Gurus, DC=WSA, DC=LAB";  
New-ADUser -Name tsvetanka.hristova `
-AccountPassword (ConvertTo-SecureString -AsPlainText "Password1" -Force) `
-DisplayName "Tsvetanka Hristova" -Enabled $true `
-GivenName Tsvetanka -Surname Hristova `
-UserPrincipalName tsvetanka.hristova@WSA.LAB `
-Path "OU=Supervisors, OU=Varna, OU=Sales Gurus, DC=WSA, DC=LAB";  
New-ADUser -Name petar.iliev `
```

```

-AccountPassword (ConvertTo-SecureString -AsPlain "Password1" -Force) `
-DisplayName "Petar Iliev" -Enabled $true `
-GivenName Petar -Surname Iliev `
-UserPrincipalName petar.iliev@WSA.LAB `
-Path "OU=Staff, OU=Varna, OU=Sales Gurus, DC=WSA, DC=LAB";

New-ADUser -Name gergana.petkova `
-AccountPassword (ConvertTo-SecureString -AsPlain "Password1" -Force) `
-DisplayName "Gergana Petkova" -Enabled $true `
-GivenName Gergana -Surname Petkova `
-UserPrincipalName gergana.petkova@WSA.LAB `
-Path "OU=Staff, OU=Varna, OU=Sales Gurus, DC=WSA, DC=LAB";

```

3. Create the required computer accounts:

```

New-ADComputer PC-SF-01 -Path "OU=Sofia, OU=Sales Gurus, DC=WSA, DC=LAB";
New-ADComputer PC-SF-02 -Path "OU=Sofia, OU=Sales Gurus, DC=WSA, DC=LAB";
New-ADComputer PC-SF-03 -Path "OU=Sofia, OU=Sales Gurus, DC=WSA, DC=LAB";
New-ADComputer PC-VN-01 -Path "OU=Varna, OU=Sales Gurus, DC=WSA, DC=LAB";
New-ADComputer PC-VN-02 -Path "OU=Varna, OU=Sales Gurus, DC=WSA, DC=LAB";
New-ADComputer PC-VN-03 -Path "OU=Varna, OU=Sales Gurus, DC=WSA, DC=LAB";

```

4. Show what we did:

```

Get-ADOrganizationalUnit -Filter 'Name -Like "*" ' | Format-Table Name, DistinguishedName -AutoSize;
Get-ADUser -Filter 'Name -Like "*" ' | Format-Table Name, DistinguishedName -AutoSize;
Get-ADComputer -Filter 'Name -Like "*" ' | Format-Table Name, DistinguishedName -AutoSize;

```