# 1. Разяснения относно курсовия проект

- Курсовият проект ще се вземе предвид само ако са предадени необходия брой домшни.
- За курсовия проект ще ви трябват 3 виртулани машини.
- Използвайте само Windows 7 и Windows 2008 R2! Инструментът за оценяване няма да работи коректно с други версии!
- Следвайте много внимателно инструкциите. Много е важно всички имена и настройки да се копират точно както са в инструкциите!
- Ако някоя настройка не е изрично указана, използвайте стойностите по подразбиране.
- Инструментът за оценяване има три бутона, като на всеки от тях пише за коя виртуална машина е предназначен. След натискане на бутона изчакайте и ще видите генериран файл в директорията на инструмента.
- Генерираните файлове за всяка машина трябва да се архивират в един архив.
- Курсовият проект се предава през системата на Telerik, като домашно.

# 2. Инструкции

## 2.1   Server DC01

| Step | Additional Notes |
|---|---|
| 1.  Create new virtual machine | VM Minimum requirements:<br>  -   1 CPU<br>  -   768 RAM<br>  -   15 GB (Expanding/Thin Disk)<br>  -   Network Adapter (Isolated/Internal Net) |
| 2.  Install Windows 2008 R2 Standard Edition | Select Full installation option |
| 3.  Configure server name: DC01 | |
| 4.  Set static IP Address configuration | 192.168.75.10<br>255.255.255.0 |
| 5.  Enable Remote Desktop | |
| 6.  Disable Windows Firewall for all profiles | |
| 7.  Set Windows Service "Windows Audio" to disable | |
| 8.  Install Active Directory Domain Services Role | |
| 9.  Promote server to a domain controller | Create new Domain in new Forest<br>Domain name: <yourTelerikUserName>.local<br>Forest and Domain Functional Level: 2008 R2 |
| 10.      Create OU Structure | -domin.local<br>  - BG<br>     - Users<br>     - Computers<br>     - Groups<br>  - UK<br>     - Users<br>     - Computers<br>     - Groups |

| | | - US |
|---|---|---|
| | |     - Users |
| | |     - Computers |
| | |     - Groups |
| | |   - Global Groups |
| | |   - Admin Users |
| 11. | Create Accounts and Groups | Create the following accounts and groups: <br> Global Groups/Global Admins <br> Global Groups/All Finance Users <br> BG/Groups/BG Finance Users <br> UK/Groups/UK Finance Users <br> BG/Users/Ivan.Dimitrov <br> BG/Users/Denislav.Petkov <br> UK/Users/Moyra.Kelly <br> UK/Users/John.Smith <br> Admin Users/Petar.Ivanov <br> Admin Users/Ivan.Georgiev <br> Admin Users/Johny.Thompsan |
| 12. | Add users and groups nesting | Add Petar.Ivanov, Ivan.Georgiev and Johny.Thompsan to **Global Admins** <br><br> Add Ivan.Dimitrov and Denislav.Petkov to **BG Finance Users** <br><br> Add **BG Finance Users** and **UK Finance Users** to **All Finance Users** |
| 13. | Enable Active Directory Recycle Bin | |
| 14. | Create GPO AppLocker | GPO Name: GlobalAppLockerPolicy <br> GPO Settings: <br> • Enable Applocker <br> • Enforce rules for all categories <br> • Create default rules <br> GPO Links: Link the GPO to BG/UK/US OUs |
| 15. | Create GPO DesktopPolicy | GPO Name: GlobalDesktopPolicy <br> GPO Settings: Set custom desktop background image <br> GPO Links: Link the GPO to the domain |
| 16. | Find the Domain SID of your domain | Find the domain SID and save it in C:\domainSID.txt <br> The file should contain only the domain SID! |
| 17. | Install File Service Role | Install File Service Role and select: <br> DFS Namespace role service <br> File Server Resource Manager |
| 18. | Create new Shared Folder | Location: C:\Shared Documents <br> Share Name: Shared Documents <br> Share Permissions: Everyone – Full Control |

|  |  | NTFS Permissions:<br>• Deselect – "Include inheritable permissions from this object's parent"<br>• Add Administrators – Full Control<br>• Add Authenticated Users – Read<br>• Add All Finance Users – Modify |
|---|---|---|
| 19. | Create new DFS Namespace | Name: DATA |
| 20. | Create DFS Link Target (New Folder) | \\domain\DATA\SharedDocs  -><br>\\DC01\Shared Documents |
| 21. | Set folder quota on C:\Shared Documents | Set Hard Quota 300 MB<br>Name the quota template "300.00 MB (Hard)" |

## 2.2   Server SRV01

| Step | Additional Notes |
|---|---|
| 1.   Create new virtual machine | VM Minimum requirements:<br>- **1** CPU<br>- **768** RAM<br>- **30 GB** (Expanding/Thin Disk)<br>- Network Adapter (Isolated/Internal Net) |
| 2.   Install Windows 2008 R2 Standard Edition | Select Full installation option |
| 3.   Configure server name: SRV01 |  |
| 4.   Set static IP Address and DNS | 192.168.75.11<br>255.255.255.0<br>DNS: 192.168.75.10 |
| 5.   Join server in the domain |  |
| 6.   Enable Remote Desktop |  |
| 7.   Disable Windows Firewall for all profiles |  |
| 8.   Install DHCP Role |  |
| 9.   Create new DHCP Scope | Scope Settings:<br>Range: 192.168.75.1 – 192.168.75.254<br>Exclusion: 192.168.75.1 – 192.168.75.128<br>DNS: 192.168.75.10 (Set DNS on Scope Level!) |
| 10. Install WDS Role |  |
| 11. Add Boot and Install Images | Add WIMs from Windows 2008 R2<br>Set default names for Install Images |

| Step | Additional Notes |
|---|---|
| 12. Create Capture Image | Set capture image name "Capture" and filename "capture.wim" |
| 13. Create new user defined Performance Monitor DataCollectorSet | Name: CPUandMemory<br>Add Performance counters:<br>• Processor: %Processor Time<br>• Memory: Available Mbytes |

## 2.3   Client machine CL01

| Step | Additional Notes |
|---|---|
| 1. Create new virtual machine | VM Minimum requirements:<br>- 1 CPU<br>- 768 RAM<br>- 15 GB (Expanding/Thin Disk)<br>- Network Adapter (Isolated/Internal) |
| 2. Install Windows 7 | Ultimate or Enterprise |
| 3. Configure name: CL01 | |
| 4. Set dynamic IP and DNS configuration | |
| 5. Join workstation in the domain | |
| 6. Disable Windows Firewall for all profiles | |
| 7. Run Sysprep | Select OOBE and Generalize options |
| 8. Shutdown Workstation | |
| 9. Boot Capture Image | |
| 10. Capture Win7 Image and upload it on the WDS | Set image name "Win7Prep" and description "Win7Prep" |

## 2.4   Capture all configurations

| Step | Additional Notes |
|---|---|
| 1. Download **ExamAssessmentTool** | |
| 2. Copy **ExamAssessmentTool** to each VM | |
| 3. Run **ExamAssessmentTool** on each VM and select the proper button (computername) | |
| 4. Copy all output files to a single folder | |
| 5. Create zip file that contains all output files | |
| 6. Upload the zip file as homework in the Telerik Academy system | |