Lab Number: 3. Active Directory

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## Section Summary

#### Section 3: Active Directory

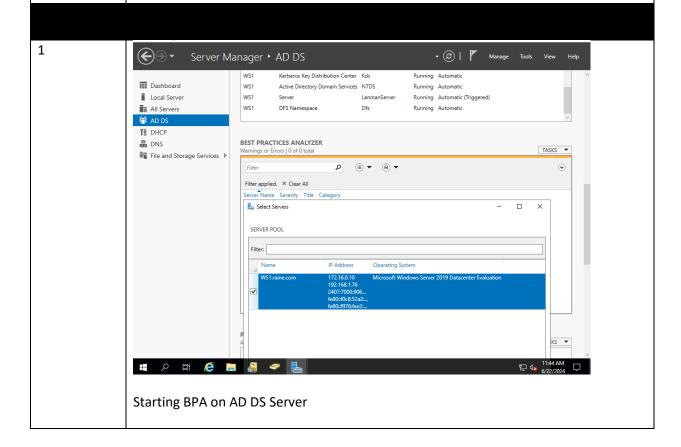
All group members work together for this section

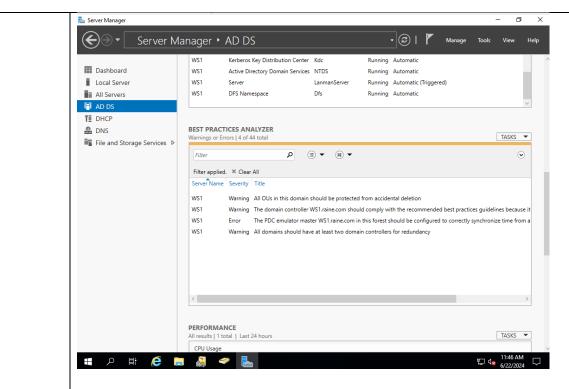
- Use Windows Admin Center to manager a domain controller
- Remove child domain and have two DCs on a single domain
- AD replication between domain controllers
  - Specify AD replication interval and schedule
- Make WS1 the Global catalog server
- Configure AD OU, groups and users according to a defined company structure on WS1
- Restrict user access to weekdays only
- Use Best Practices Analyser (BPA) scan to ensure services from the previous section is working properly
- Create a checkpoint of server VMs

### Implementation steps

- 1. Use BPA scan on WS1 start BPA scan
  - O What information is received?
- 2. Delete child domain from WS2
- 3. Use Windows Admin Centre (WAC) on WS2
  - Google search for WAC and download the latest version and install it
    - Generate a self-sign certificate
    - Use default port number 443
    - What is the URL provided to access WAC for your server?
  - Note this cannot be added to a domain controller
  - Access it from a client web-browser
    - Add the server name WS1
    - Create a new folder in WS1 and download it WS2
    - Restart the DHCP service on WS1 via WAC
    - What information cab be changed at the menu items: firewall, network, roles, updates, files, devices, services, and local users & Groups?
- 4. Remove WAC role once confirmed that is working correctly from WS2 as we want to make a domain controller now
- 5. Make WS2 a second domain controller in the dileep1 domain
- 6. Ensure AD replication between the domain controllers (Every 180 minutes)
- 7. Remove the WS2 global catalog ability from WS2 but leave it on WS1
- 8. Check the current domain and forest functional levels to Windows server 2016 user Server manager using the Active directory domains and trusts tool

- 9. User AD sites and services to remove global catalog from WS2 (it should be enabled for WS1 only
- 10. Use Active directory users and computers to:
  - a. Verify that the client computers have been added to the domain
  - b. Verify that WS1 and WS2 are domain controllers for the same domain
  - c. Configure AD OU, groups and users (one user per group) on WS2
    - OU Staff
      - Universal user that can log in to both domains
      - OU: DevelopersOU
      - Group: Developers
    - OU: ManagersOU
      - Group: Managers
    - OU: AccountsOU
      - Group: Accounts
- 11. Restrict Developer user access to weekdays only
- 12. Test that users can log correctly from the client node
- 13. Use VMware to create a checkpoint of WS1 and WS2. May need to revert back to this if any issues happen in project 4

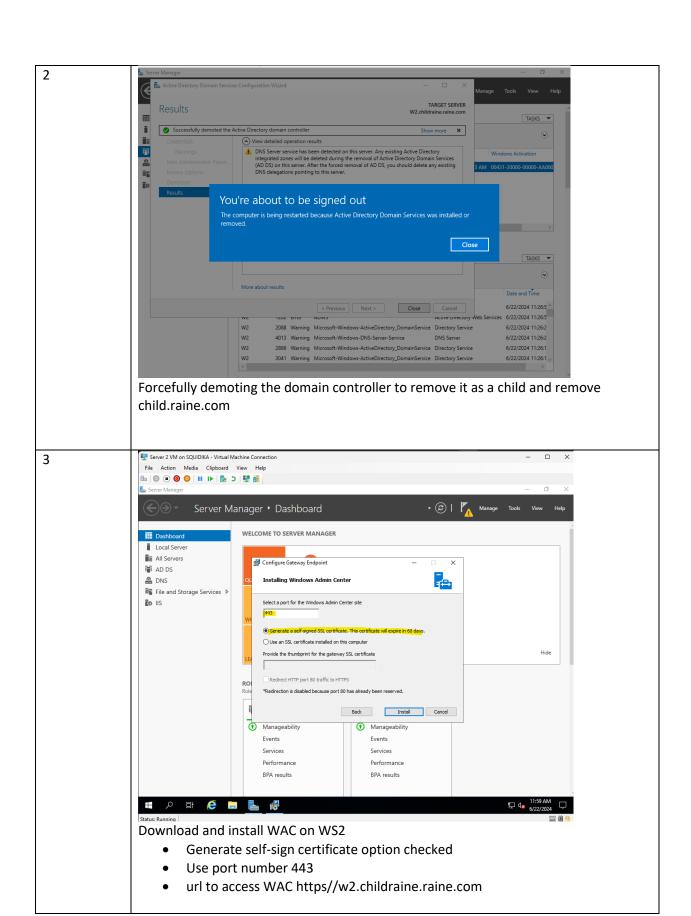


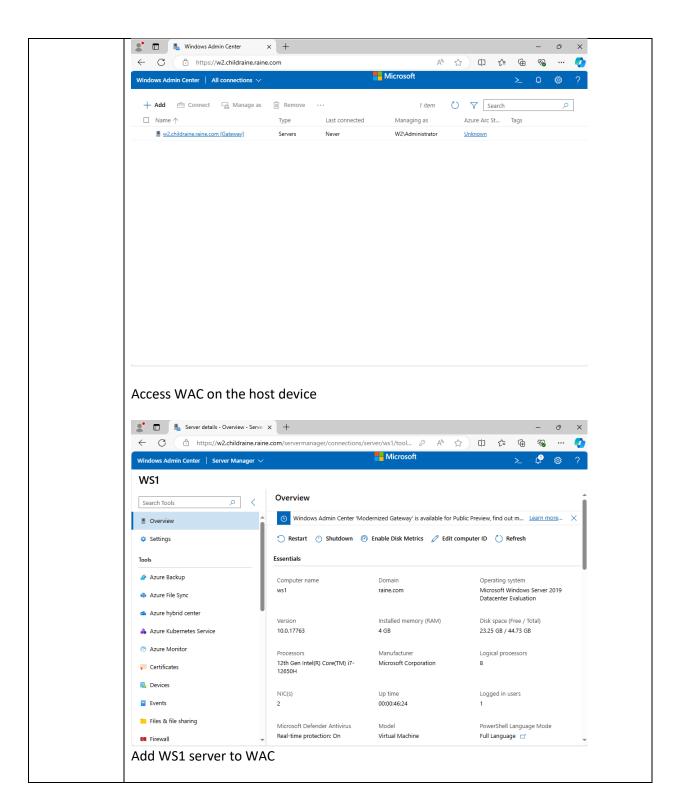


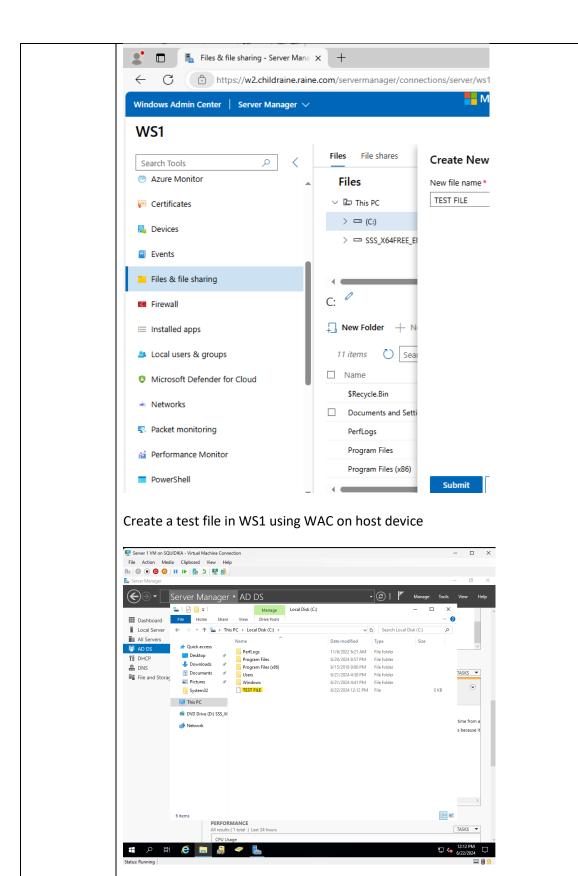
Results of the BPA scan on the AD DS server on WS1

# **Types of Information Received from a BPA Scan:**

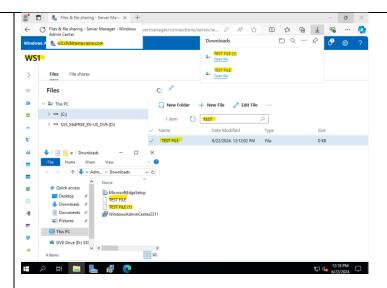
- **Compliance Issues**: Lists any non-compliant configurations according to best practices.
- **Recommendations**: Provides specific suggestions to correct the compliance issues.
- **Warnings and Errors**: Details about potential problems with the server configuration.
- **Performance Suggestions**: Tips to improve server performance and efficiency.
- Security Issues: Highlights any security risks or vulnerabilities.



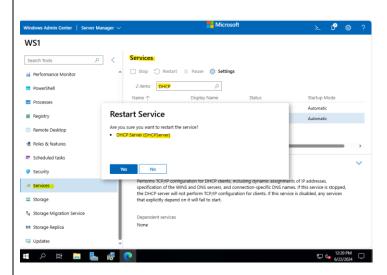




The file is created in the location in WS1



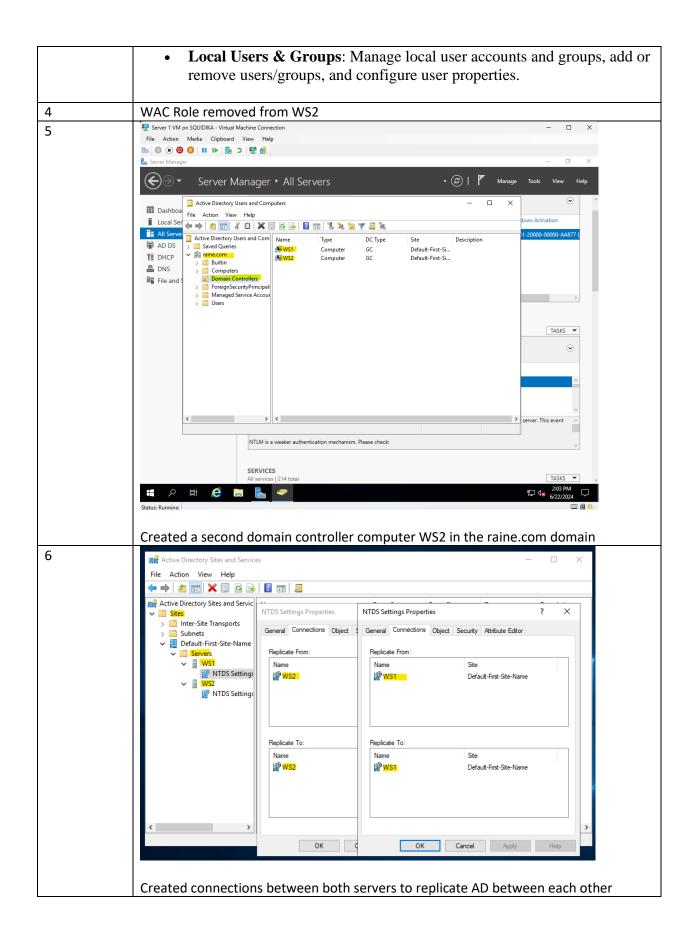
Use WAC to download the file created by the host device on WS1 to the device of WS2

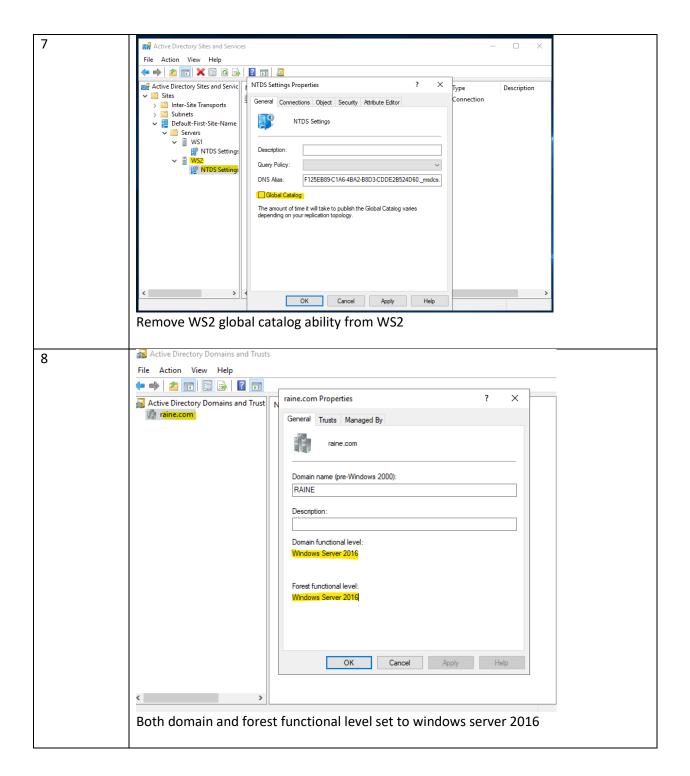


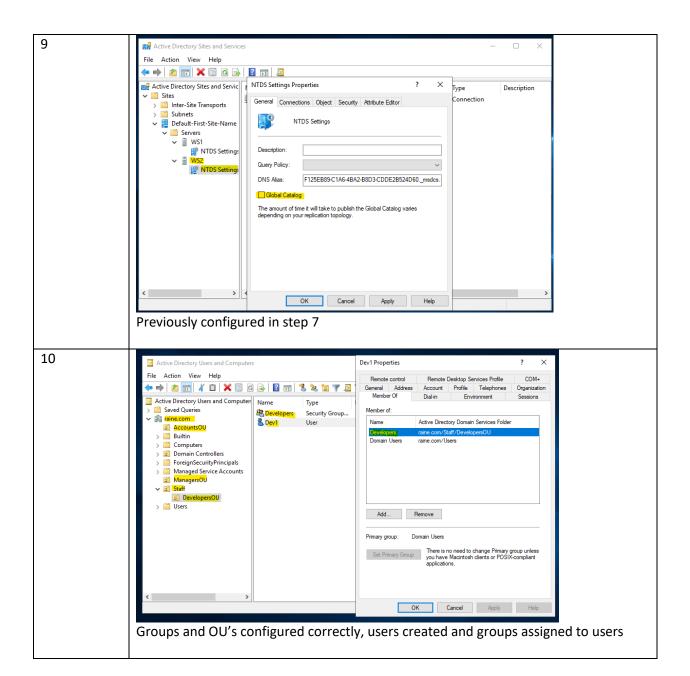
Restart the HDCP Server on WS1 via WAC on host device

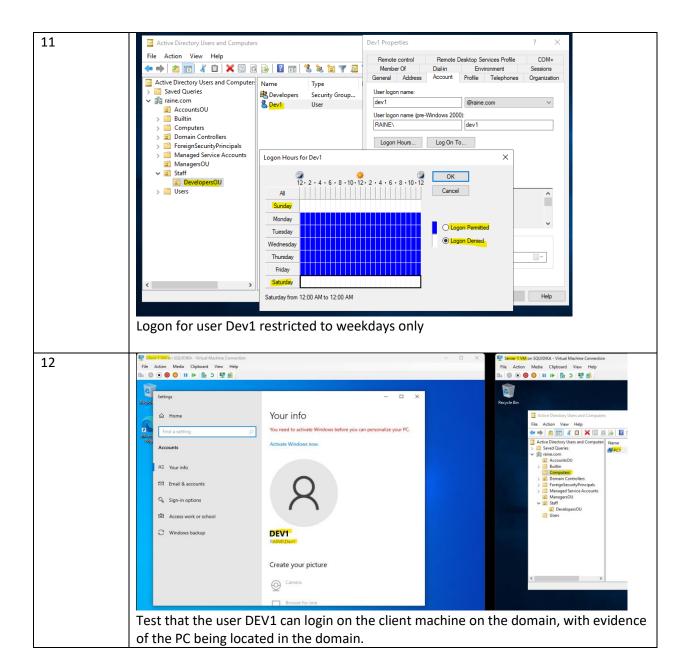
### **Information that Can Be Changed in Menu Items**

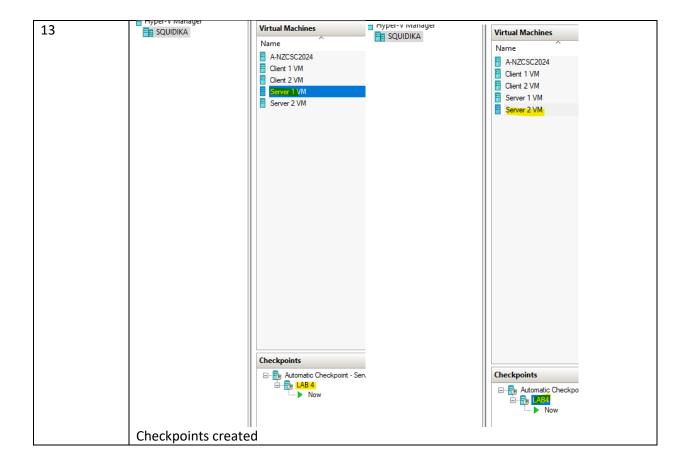
- **Firewall**: Configure and manage Windows Firewall rules.
- **Network**: View and configure network adapters, IP settings, DNS, and gateways.
- Roles: Add or remove server roles and features.
- **Updates**: Check for, install, and manage Windows updates.
- **Files**: Manage files and folders, create new files/folders, delete, move, and download files.
- **Devices**: Manage hardware devices and device drivers.
- **Services**: Start, stop, and configure services running on the server.











List At the three most useful Internet resources that you used (provided by the tutor)

- o BPA scan
- o <a href="https://docs.microsoft.com/en-us/windows-server/administration/server-manager/run-best-practices-analyzer-scans-and-manage-scan-results">https://docs.microsoft.com/en-us/windows-server/administration/server-manager/run-best-practices-analyzer-scans-and-manage-scan-results</a>
- · Add DC to exisiting domain and AD replication
- https://www.youtube.com/watch?v=-R7Ryy7-4e0
- Set Functional levels
- https://www.youtube.com/watch?v=-R7Ryy7-4e0

List all (at least three) Internet resources that you found and used that were not provided by the tutor)

- https://www.rebeladmin.com/2015/07/how-to-enable-universal-group-membership-caching-ugmc/
- https://www.youtube.com/watch?v=cETbT22TWEE
- https://www.youtube.com/watch?v=E39 MzvCFXA

