CIS232 –Homework – Samba – PDC

- Before beginning, if I have not yet corrected the first two samba assignments, **Clone your existing Linux/Samba Server**. **Use the same virtual machine name on the clone but include –WG** at the end of the name (work group). Do not power on the clone. Use your original machine for this assignment and do nothing with the clone. This will ensure that, if necessary, I am able to access your Samba Workgroup machines when I'm correcting your first two assignments. If I've already corrected those assignments, you do not have to clone the server.
- To complete this assignment you will need your existing Linux/Samba Server and the Windows 7 virtual machine that I've placed in your folder. You won't need to use the Linux client for this assignment.
- Objective of the assignment: Configure your server as a Samba PDC Server. Windows 7 must have an account in the Samba Domain. **All user accounts must be stored at the Linux/Samba server**. **No local accounts should exist on the Windows 7 client.**
- Requirements of the assignment:
  - Configure the Linux Samba Server as a PDC. Use cis232.bcc as the domain name.
  - Windows 7 must be a member of the cis232.bcc domain.
  - The Windows client must get its IP settings from the DHCP server and must be able to access the Internet
  - Linux Users must be able to authenticate at the Windows clients
  - Roaming profiles must be disabled.
  - When authenticating at the Windows client, users must have a drive mapping of H: that connects them to their home folder. This mapping must be established via the smb.conf file.
  - When authenticating at a Windows client, users must have a drive mapping of P: that connects them to the publicstuff share. This mapping must be established via a logon script that is stored at the Linux server and is processed for all users when logging on at Windows.
  - Aside from Administrator, NO local accounts should exist on the Windows client.
  - The root user and at least 5 of your existing users must be configured with a samba password.

After you have successfully configured the samba domain as specified above, answer the following questions and provide screenshots where appropriate. I will have you perform various tasks as part of each question but there's an assumption that you've successfully tested the user account authentication at your windows client before answering these questions. If, at any point you have to make changes to your configuration please do not forget to update your screenshots as needed!!!

1. Display the contents of the /etc/smb.conf file on the samba PDC Server.

2. Show the last 20 lines of the /etc/passwd file at the server.

3. On the server, execute the pdbedit –L command. Include the command and its output as your answer.

4. On the server, display the status of the smb and nmb services.

5. Create a user account for Mary Poppins. The username must be mpoppins. She must have a home folder and her full name must be included as the comment property value. This user must be configured as a samba user.
   Provide a list of all commands used to create the account.

6. Login as mpoppins at the Windows client. Use either the command prompt or windows explorer to display the network drive mappings that exist for Mary.

7. While still logged in as mpoppins, open a command prompt window and execute the whoami command. Provide a screenshot of the command and its output.

   Log off as Mary.

8. After logging on and logging off at the Windows client as mpoppins, as root display (ls -l) the contents of mpoppins' home folder on the Server.

9. Display the contents (ls –l) of the netlogon share on the samba server.

10. Display the contents of the logon.bat file and include the absolute path to the file in your answer.

The questions in this section must be answered at the Windows 7 machine

11. While at the command prompt, execute the NET USER command. Provide a screenshot of the command and its output.

12. While still at the command prompt, execute the NET USER /domain command. Provide a screenshot of the command and its output.

13. Within regedit, display the contents of the Parameters folder within LanmanWorkstation. Provide a screenshot of the folder's contents. Make sure each column of information is widened so that I can see the full names and values.

14. Display the output of the ipconfig /all command.

15. Ping bristolcc.edu. Display the command and its output.

The following tasks must be completed at the Samba Server

16. Configure the following domain account password policies:
    - Minimum Password length should be 6, the user must change their password every 90 days and should not be able to use any of the last 5 passwords.
      a. Display each command used to configure these settings and their respective outputs.

      b. Confirm that the password length setting was successfully applied and explain, in detail, how you confirmed it worked.

17. Configure the Mary Poppins user to have a password that never expires.
      a. Provide the command used to complete the task and its output. The output should confirm the setting was properly applied

18. Disable one of the existing samba user accounts (not Mary's)
    a. Provide the command used to complete task and its output. The output should confirm the setting was properly applied.

    b. Confirm the setting worked; not just that it was applied to the record. Explain how you confirm this.

19. Create a user named Peter Pan with all the same requirements as Mary Poppins. Login and log off as peter at the Windows 7 client.
    a. After logging on and logging off at the Windows client as peter, as root display (ls) the contents of peter's home folder on the Server.

20. Configure Peter to have a roaming profile. No other users should have a roaming profile. Store the profile in the user's home folder; in a folder named winprofile. After testing it to make sure it works provide answers to the following questions.
    a. Display the global settings of the smb.conf file
    b. Provide the command used to configure this for Peter.
    c. Display the contents of Peter's home folder while at the linux server.
    d. Display the contents of Peter's roaming profile folder – this should confirm that the roaming profile was properly created.
    e. Display Peter's data record in the TDB file.
    f. While logged in as Peter on the Windows computer, execute the net use command and include the command and its output as your answer to this question.

Extra Credit

1) I have tried for quite some time now to get Windows 10 to successfully join a PDC domain. I have not been successful. If you can successfully get Windows 10 joined to a PDC domain, have samba users successfully logon at Windows 10 and document the process so that it can be replicated, you will not have to take the final exam. Only one person can be excluded from the final; this means, the first one to accomplish this will not have to take the final exam. Your final exam grade will be an A.

If, by chance, the approach we took to add windows 7 'magically' works for you, this won't count because, as noted above, I must be able to follow your steps and have it work on my systems. Right now, the method used on Windows 7 does not work for me with Windows 10.

2) Figure out a way to determine what linux groups you belong to while logged in as a samba user on a Windows client. It should be with a command so that it can be incorporated in a script. (10 points on final)