

Upplýssingatækniskólinn

**KEST2WG05DU LOKAVERKEFNI**

**Windows Server kerfisstjórunun**

Tækniskólinn

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As network/System Administrator, you have been asked to design and install computer systems for an enterprise company called DDT hf. where 15 employees work as shown in the table below.

1. Windows 10 machines should get IPv4 and IPv6 addresses including Gateway and DNS server addresses from DHCP and DHCPv6.
2. For IPv4 use the subnet 192.168.130.128/26, use the last usable IP address for the server and default gateway, also use the first 30 usable IP numbers in DHCPv4 scope.
3. You are given the IPv6 address block 2001:CC1D:5A:C000::/64, The server should use the first IPv6 Address.
4. Configure DHCPV6 so the client on the network gets IPv6 addresses, including DNS sever address, and gateway.
5. The last 64 bits EUI of IPv6 should use the Mac address and FFFE.
6. The DNS server should resolve IPv4 and IPv6 addresses to hostnames.
7. Configure Network Address Translation (Nat), so there will be connectivity to the internet using private IPv4 addresses.
8. Create user accounts in CSV file and import it with PowerShell. User accounts should include the following attributes:

Full name, first name, last name, username, user principal name, department and email address.

1. Create a folder for each department mapped as T and shared folder for all departments mapped as S. Also, create a shared printer for each department and one for all. This should be done via group policy.
2. Use GPO to map network drives you shared in task 9, so they would appear in file explorer on the client computers.
3. Normal users must read and browse the contents of S Drive, but the Management group must be able to read files, list contents and modify files if necessary.
4. Each employee needs to get its own folder under My Documents that is mapped with the drive letter H:
5. Only Users from IT and Management department should be able to access to task manager and Registry editor.
6. Use GPO to set the minimum password length to 14 characters.
7. Enable auditing of domain logons, so security logs are generated automatically when any unsuccessful sign in attempt has been made. To test try to login with incorrect password. Enable auditing on shared folders, so when a new file is created or deleted by the user a security log is created. Test by creating a new file on the client machine.
8. Users in IT and Management need to connect to via VPN to access files and printers.



