1. Create three virtual machines with names;
   1. ANK-DC1
   2. ANK-IIS1
   3. ANK-IIS2
   4. ANK-FS1
2. Configure the servers based on the settings below:
   1. RAM: 4 GB static
   2. HDD: 30 GB dynamicly expanding
   3. Network: Same private virtual switch for all
   4. Generation: 4
   5. IP Addresses, Subnet Masks and DNS addresses respectively
      1. 192.168.6.10 - 255.255.255.0 - 192.168.6.10
      2. 192.168.6.51 - 255.255.255.0 - 192.168.6.10
      3. 192.168.6.52 - 255.255.255.0 - 192.168.6.10
      4. 192.168.6.15 - 255.255.255.0 - 192.168.6.10
   6. Insert server image file
3. Install Windows Server with GUI.
4. Rename servers with their VM names.
5. Configure IP addresses.
6. Install Active Directory Domain Services on ANK-DC1 with forest domain name “yoursurname.com”
7. Install IIS role on servers ANK-DC1, ANK-IIS1 and ANK-IIS2
8. Join servers to domain
9. Create Users and computers structure under domain
   1. IT <ou>
      1. it1 <user>
      2. it2 <user>
      3. it <group>
   2. HR <ou>
      1. hr1 <user>
      2. hr2 <user>
      3. hr <group>
   3. ACC <ou>
      1. acc1 <user>
      2. acc2 <user>
      3. acc <group>
   4. Users <Built-In Container>
      1. ConfigUser
      2. CertUser
      3. ContentUser
10. Add users under IT, HR and ACC organizational units to the groups it, hr, acc respectively.
11. Create checkpoint for all vms and rename those with a user friendly format.
12. Configure ANK-SVR1 so that default web site can be viewed with hostname www.domain.com. Rename Default Web Site in IIS as www.
13. Instead of default iisstart page, use given “default.htm” file for www.contoso.com.
14. By using the given files, create web sites that can be seen with the links below. If necessary, make changes in this files by opening those with notepad.
    1. www.contoso.com/forms
    2. www.contoso.com/purcreq
    3. www.contoso.com/phonebook
    4. hr.contoso.com
    5. acc.contoso.com
15. For all web sites, also configure <link>/testpage.asp page. Use the given files. If necessary, make changes in this files by opening those with notepad.
16. Update the links (both aliases and the name in iis) as follows (Do Not Remove-And-Recreate).
    1. www.contoso.com/purcreq 🡪 www.contoso.com/purc
    2. www.contoso.com/phonebook 🡪 www.contoso.com/phone
17. Add a virtual directory under acc and hr web sites. Enable directory browsing and test whether you see web.config
18. Make required authentication and authorization configurations so that
    1. All domain members must give their user credentials to view www.\* web sites
    2. Only hr members should be able to view hr.\* web sites
    3. Only acc members should be able to view acc.\* web sites
19. Create a self-signed certificate for www site. Remove http bindings and only use https for www.\*.
20. For log files of all web sites, make sure that service names and server names are also logged.
21. Create a 10GB RAID-5 disk with three 5GB vhd on ANK-SVR1. Name: IIS-All. In this disk, create three folders: Contents, Logs, ConfigBackup
22. Take a config back up to \\ANK-FS1\ConfigBackup with Windows Server BackUp or Powershell. Check the back up on ANK-FS1 and rename folders if necessary
23. Move all sites’ content to \\ANK-FS1\Contents and ANK-SVR1’s IIS log files to \\ANK-FS1\Logs. Make sure all sites and logs keep working.
24. Create a new web site on ANK-IIS1 with
    1. Name: public
    2. Application Pool: Public
    3. Site link: public.contoso.com
    4. Content path: on ank-fs1 (same with other sites)
    5. Content files: copy default.htm and testpage.asp files from any other web site. Edit the content for “public contoso web site”
    6. Binding: only with https.
25. Create a new web site on ANK-IIS2 with the same configuration in previous item.
26. Create a web farm on ANK-DC1 including ANK-IIS1 and ANK-IIS2. Test web farm health and servers’ health
27. Also verify web farm with link https://public.contoso.com/testpage.asp. Server IP should switch between ip addresses of ANK-IIS1 and ANK-IIS2 after every refresh.