**Objective:** Plan your Active Directory – before deployment

**Tasks C3:** Support, Track and document change implementation

**Outcome:** Develop planning skill set for active directory

|  |  |
| --- | --- |
| Scoring Rubric |  |
| Evidence | Points |
| 1st step – part B – Server hardware recommendations table |  |
| 1st step – part C – Server hardware cost – Screen shot |  |
| 2nd step – part 2 – Domain Name table – Screen shot |  |
| 3rd step – fill in the boxes |  |
|  |  |
| Total Points | 10000 |

### Understand Active Directory Domain Services Design

 Key points:

1. Simplify user and resources management
2. Create a scalable, secure and infrastructures that will be easily manageable
3. Manage your network infrastructure and multiple forest environments
4. There are three phases
	1. Design Phase – Active Directory Domain Services logical structure – Planning Phase
	2. Deployment Phase – Creates the design in an lab environment – Testing phase
	3. Operations Phase – True implementation in the environment – Production phase

### Your business Scenario

**Company Name:** Exterminating Company

**Company Employees:** 100

**Company Profit:** 10,000 carrots a month

**Company Owner:** Bugs Bunny

**Company Location:** Looney Tunes, Warner Brothers - Marrs

**Company Motto:** Gee, ain’t I a stinker?

The scenario

 Exterminating company is going to grow – in terms of locations. Their future locations are going to be within different planets. Here’s what they are planning:

1. Build offices in the following locations – Earth, Venus, Jupiter and Neptune with their existing main office – which is a rabbit hole!!!
2. Manage all computers in a control environment
3. Share resources across the network infrastructure
4. Lock down Looney Tunes workstations – especially Tasmanian devil!!!!!

Currently they DO NOT have any servers in place that you can use. They want the latest and greatest Server, which is Server 2012.

 Key points:

1. They need server hardware to be specified on all sites. Remember there are 4 planets and their rabbit hole (main office).
2. Domain Name needs to be designed – Recall from Unit B
3. Active Directory Domain Services needs to be designed – Recall from the 1st lecture of this unit
4. Create User accounts, Organizational Units - needs to be designed – That will come up during this unit.

1st step – Provide proper specifications of server hardware

The 1st item that needs to be completed is the following:

1. Read the following Article - <http://www.servethehome.com/microsoft-windows-server-2012-hardware-requirements-recommendations/>
2. Fill in the following Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Hardware – Server Requirements | Processor | Hard disk space | RAM (Memory) | Network Card |
| Example Given (e.g.) | Pentium 4 | 1GB | 512MB | 1 – 10/100 NIC |
| Minimum requirements from the article above | 64-Bit x64 CPU1.4GHZ | 35+Gb either ssd or hdd | 512MB of ram | NIC |
| What will your Domain Name be: Type into the corresponding planet or office!!! |
| Main Office | RabbitHole.LooneyTunes.com |  |  |  |
| Earth | Earth.LooneyTunes.com |  |  |  |
| Venus | Venus.LooneyTunes.com |  |  |  |
| Jupiter | Jupiter.LooneyTunes.com |  |  |  |
| Neptune | Neptune.LooneyTunes.com |  |  |  |

1. Let’s see how they actually cost. To view the cost click on the following link: <http://www.dell.com/us/business/p/poweredge-t420/fs>
	1. Within that link, choose one that will fits to your recommended hardware specifications for exterminating company. **Make Sure You Click On One!!!!**

### Were done choosing our hardware specifications for Server 2012 – now let’s design the DNS – Domain Name

2nd step – Provide a Domain Name

### Domain Name Development – Shortcuts

 Key points:

1. **Short and Simple**
	1. ***DO NOT*** have a long domain name like below
	2. Companythatkillsbugs.com
		1. That name is too long
	3. **Here’s an example of one.**
		1. Company Name: Gladys Porter Zoo
		2. Domain Name: gpz.org
2. **Relation to the company name**
	1. Make sure the name has a relation to the company name
3. Create your Domain name and input the result in the table below – but do not forget to create your other locations domain name also. If you recall the other locations are usually called child domains or locations that share the domain name space.

|  |  |  |
| --- | --- | --- |
| Location | Domain Name | Hint: Use the TLD of .local |
| Saturn | Saturn.local |  |  |  |
| What will your Domain Name be: Type into the corresponding planet or office!!! |
| Main Office |  |  |  |  |
| Earth |  |  |  |  |
| Venus |  |  |  |  |
| Jupiter |  |  |  |  |
| Neptune |  |  |  |  |

### We are done choosing our Domain Name – Next step is the design - Active Directory Domain Services.

3rd step – Provide an Active Directory Domain Services Design

### Identify your AD DS design requirements

 Key points:

1. Your logical structures needs to be completed before moving forward
	1. This will help you organize your directory objects – effective method to manage your accounts and shared resources
2. Determine your number of forest(s), domain(s), Domain Name Server and Organizational units (OU’s)

To complete this process fill in the boxes below, before you start you need to understand that the planets are going to be your child domains and rabbit hole (main office) will be your main active directory server. Therefore if you review your domain name table you will be able to fill in the boxes properly. Completing this process will give you a view of how each location or site should be named and connected.