This lab builds on LabD and LabE  
LabD: 1 DC, 2 clients  
LabE: 2 DC and 2 clients  
LabF: 3 DC and 2 clients

For this lab I will use w2k8c03

**Network Verification**Configure IP setting on w2k8c03  
Verify that w2k8c03 can ping w2k8b02 and w2k8a01 by number and FQDN

On w2k8c03  
go to Run, dcpromo

Select Existing forest  
Create a new domain in an existing forest

On Network Credentials  
Type the name of any…  
type kim.com  
and Set the Admin credentials, Next  
on Name of new domain  
FQDN of parent…  
type kim.com  
  
Single label DNS…  
type spike, Next

On select a site, Next  
on Additional domain…  
Next

At the Forest functional level dropdown: Select Windows Server 2008

Accept the checkbox to install DNS

Accept Location for Database. Log Files. SYSVOL

After entering the Restore password, review the Summary

Verify Forward Lookup zone by going to Administrative Tools, DNS

Create a Primary Reverse Lookup zone, accept all defaults

Network ID: 172.16.150

Create PTR record for w2k8a

**1.2 Child**: Create and install w2k8b

Create a virtual machine named w2k8b

Install W2k8 operating system on w2k8b

In Control Panel, System, change the machine name to w2k8b and set the Primary DNS suffix to ash.kim.com

In Control Panel configure IP settings: IP address, mask

From both servers, ping each other

Configure the Preferred DNS Server, which is the same as the IP address as w2k8b

The Alternate DNS Server for w2k8b is w2k8a

Run, dcpromo

Select Existing forest

Create new domain in an existing forest

Type the name of any domain in the forest where you plan to install this domain

kim.com

Click Set and enter Administrator and password for w2k8a

FQDN of parent domain:

Browse and select kim.com, or Type kim.com

Single-label DNS name of the child domain:  
Type ash

Accept Default-First-Site-Name

Additional domain controller options  
Leave DNS selected, because ash will have its own DNS

Type the Restore password

1.3 Verify the parent and child relationship

Log on to w2k8a and go to Administrative Tools, Active Directory Domain and Trust and click the plus next to kim.com, right click kim.com, Properties and click the Trust tab; their you will see Domains trusted by this domain and Domains that trust this domain:  
Domain: ash.kim.com, Trust Type: child, Transitive: Yes

Then right click on ash.kim.com, Properties and click the Trust tab; their you will see Domains trusted by this domain and Domains that trust this domain:  
Domain: kim.com, Trust Type: Parent, Transitive: Yes

Log on to w2k8b and repeat these steps

1.4 Administer objects in parent and child

1.4.1 Log on to kim.com and create an organizational unit named kimou

Log on to ash.kim.com and go to AD Users and Comp, right click ash.kim.com and select Change Domain, click Browse in the Change Domain dialog and select kim.com, OK, click the plus next to kim.com, where you will see kimou

Rhight click kimou, Rename, and rename it to kimouabc; you will get an Access denied message, OK

Right click kimou and notice the New option is not their

Exit AD users and computers

1.4.2 Log on to ash.kim.com and create an organizational unit named ashou

Log on to kim.com and go to AD Users and Comp, right click kim.com and select Change Domain, click Browse in the Change Domain dialog click the plus next to kim.com, select ash.kim.com, OK, click the plus next to ash.kim.com, where you will see ashou

Rhight click ashou, Rename, and rename it to ashouabc; this action will be successful. Change it back to ashou

Right click ashou and notice the New option is their

1.5 Delegate responsibility

In the example in XX when an OU is created in the parent domain, it is cannot be modified by the child domain administrator; however, you can delegate responsibility of an OU in the parent domain to the administrator in a child domain.

2. Active Directory integrated zone and secondary zone on same subnet

For this exercise, you will need two Windows Server 2008 virtual servers configured a follows:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| OS | function | domain | Disk GB | Memory GB | Name | IP address, /24 |
| W2K8 | DC, Parent | kim.com | 15 | default | w2k8a | 172.16.150.20 |
| W2K8 | secondary |  | 15 | default | w2k8b | 172.16.150.40 |

Create an Active Directory integrated zone using the steps in 1.1

Parent and child on different subnets

Active Directory integrated zone and secondary zone on same subnet  
Active Directory integrated zone and secondary zone on different subnets

Two domain controllers in the same domain on same subnet  
Two domain controllers in the same domain on different subnets

Two domains on different subnet

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| OS | function | domain | Disk GB | Memory GB | Name | IP address, /24 |
| W2K8 | DC | kim.com | 20 | default | w2k8a | 172.16.150.20 |
| W2K8 | DC |  | 20 | default | w2k8b | 10.10.150.20 |
| W2K8 | Router |  | 10 | default | w2k8r | 172.16.150.10  10.10.150.10 |
| XP | client |  | 5 | default | xpa | 172.16.150.30 |
| XP | client |  | 5 | default | xpb | 10.10.150.30 |
| W7 | client |  | 10 | default | w7a | 172.16.150.40 |
| W7 | client |  | 10 | default | w7b | 10.10.150.40 |

2. Create and install w2k8r

Create w2k8r in VirtualBox

Install W2k8 on w2k8r

In the OS rename the NIC to net17216150, configure IP settings

In VirtualBox, add a 2nd NIC, In the OS rename the NIC to net17216160, configure IP settings

This project requires five virtual machines, all 32-bit

2 clients: 2 XP, or 1 XP and 1 W7  
3 w2k8 servers, 1 will be a router and 2 DCs  
Masks for all networks is /24  
Since the lab has two subnets, the router needs 2 NICs