**Date 27/5/2017/25**

**University of Gondar**

**Faculty of informatic**

**Département for computer science**

**Network and system administration project for 2017/2025 student**

**Lab project mark weight is (25 %).**

1. Install and configure a **window server 2016** in any physical computer or VMware workstation having the following roles on it and one client computer **window 10**

Assign static ip address time zone, enable remote Desktop connection, turn off firewall

1. Active Directory and Domain name service controller (DNS)
2. Add one computer or user to the domain controller
3. Install DHCP server to manage or assign computer Ip address
4. Configure ftp file sher
5. Configure a SMTP (simple mail transfer protocol) server on your server.
6. Install and configure a **Linux/ubuntu server 22.04** for the following
7. *Sign the static Ip addres, subnet mask, gateway, prefer ed DNS server, time zone*
8. Install and configure DNS/BIND9 for name resolution

Step 2, configure /edit the script needed for BIND9

2.1 Create a directory called zone in **/etc/bind**

2.2 Configure **named.conf. local** file for zone definition

**#nano /etc/bind/named.conf.local**

Define a zone called uog.edu.et and locate the file in the

**“/etc/bind/zones/uog.edu.et.db”**

Define a zone called “0.168. 192.in. addr. arpa” and locate the file into **“/etc/bind/zones/0.169.192.in.addr.arpa**

* 1. edit the /ect/bind/named.conf.option file

**#nano /etc/bind/named.conf.options**

Type the address of tele’s DNS server

Forwarders {213.55.64.35;};

* 1. add zone definition file

create atext script file called “uog.edu.et.db ” directory

#nano /etc/bind/zones/uog.edu.et.db

3. check your configuration

i.e restart the bind service

**#/etc/init.d/bind9 restart Or # service bind9 restart**

DNS troubleshooting [current problem]

1. stop your DHCP service

**#/etc/init.d/dhcp3-server stop**

1. change the name of the server in to nsl

#hostname nsl

#nano /etc/hosts

127.0.1.1 nsl

#nano /etc/hostname

NSL

4 assign the following ip address 192.168.0.1/24

#ifconfig etho/esn33 192.168.0.1 netmask 255.255.255.0 up

Change the contents of /etc/resolv.conf

Search uog.edu.et

Nameserver 192.168.0.1

Step 4. Restart the DNS service and test again

#etc/init. d/bind9 restart

#dig www.uog.edu.et

1. Install and configure any web server (e.g. apache) in your server.
2. Install and Configure SAMB