NAME: <u>JUDAH PAULO LL. VIÑAS</u>   Year and Section: <u>BSIT-3F</u>

FILE NAME: Viñas-LT1.pdf

Learning Task: Basic Configuration on CISCO Router.

Part I. Cisco IOS CLI – System Information:

Write down the following:

1.   IOS Version: <u>Version 15.1(4)M4</u>
2.   Router Name: <u>VINAS</u>
3.   Model: <u>C1900 Software (C1900-UNIVERSALK9-M)</u>
4.   Size of RAM: <u>491520K</u>
5.   Size of NVRAM: <u>32768K</u>
6.   Size of Flash: <u>249856K</u>

Part II. Screenshot of the Following Configurations:

1. Changing the Hostname to your LASTNAME.

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname VINAS
VINAS(config)#
```

2. Change the password to you FIRSTNAME.

```
VINAS(config)#enable password JUDAHPAULO
```

3. Set Banner Message to: FULL NAME, COURSE YEAR and SECTION

```
VINAS(config)#banner motd x
Enter TEXT message.  End with the character 'x'.
JUDAH PAULO VINAS BSIT-3F x

VINAS(config)#
```

4. Interface Configuration: IP Address, Subnet Mask, No shutdown command.

```
VINAS(config)#interface GigabitEthernet0/0
VINAS(config-if)#ip address 192.168.10.1 255.255.255.0
VINAS(config-if)#no shutdown
VINAS(config-if)#
```

Part III. Show Command in user Privilege Mode.

1. Interface Verification using ***show ip interface brief*** command.

```
VINAS#show ip interface brief
Interface              IP-Address      OK? Method Status                Protocol
GigabitEthernet0/0     192.168.10.1    YES manual up                    up
GigabitEthernet0/1     10.0.0.2        YES manual up                    up
Vlan1                  unassigned      YES unset  administratively down down
VINAS#
```

2. To check running configuration using ***show running-config*** command.

```
VINAS#show running-config
Building configuration...

Current configuration : 627 bytes
!
version 15.1
```

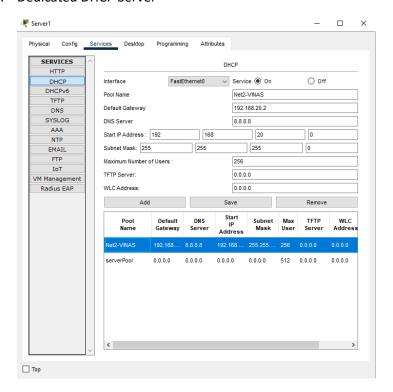3. To review the Cisco IOS version using ***show version*** command.

```
VINAS#show version
Cisco IOS Software, C1900 Software (C1900-UNIVERSALK9-M), Version 15.1(4)M4, RELEASE
SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 23-Feb-11 14:19 by pt_team

ROM: System Bootstrap, Version 15.1(4)M4, RELEASE SOFTWARE (fc1)
cisco1941 uptime is 1 hours, 19 minutes, 13 seconds
System returned to ROM by power-on
System image file is "flash0:c1900-universalk9-mz.SPA.151-1.M4.bin"
Last reload type: Normal Reload

This product contains cryptographic features and is subject to United
States and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
agree to comply with applicable laws and regulations. If you are unable
to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
http://www.cisco.com/wwl/export/crypto/tool/stqrg.html
 --More-- |
```

Part IV DHCP Configuration.

1. Router as DHCP Server

```
VINAS(config)#service dhcp
VINAS(config)#ip dhcp pool
% Incomplete command.
VINAS(config)#ip dhcp pool VINAS
VINAS(dhcp-config)#network 192.168.20.0 255.255.255.0
VINAS(dhcp-config)#default-router 192.168.20.1
VINAS(dhcp-config)#dns-server 8.8.8.8
VINAS(dhcp-config)#ip dhcp excluded-address 192.168.20.1 192.168.20.10
VINAS(config)#exit
VINAS#
```

```
VINAS(config)#service dhcp
VINAS(config)#ip dhcp pool Net2-VINAS
VINAS(dhcp-config)#network 192.168.10.0 255.255.255.0
VINAS(dhcp-config)#default-router 192.168.10.1
VINAS(dhcp-config)#dns-server 8.8.8.8
VINAS(dhcp-config)#ip dhcp excluded-address 292.168.10.1 192.168.10.2
                                              ^
% Invalid input detected at '^' marker.

VINAS(dhcp-config)#ip dhcp excluded-address 192.168.10.1 192.168.10.2
VINAS(config)#
```

2. Dedicated DHCP Server