## Lab #7

## **Computer Networking**

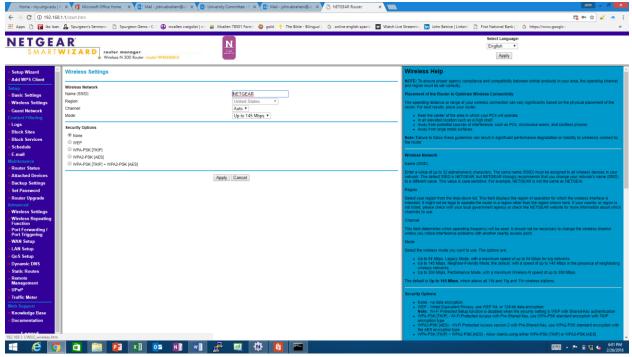
## Dr. Abraham

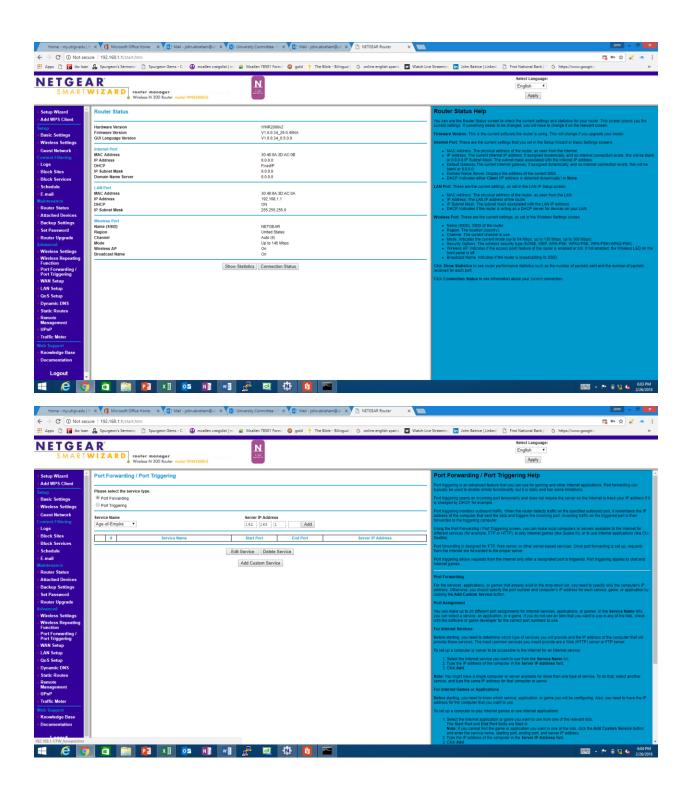
## Due March 8, 2018

Every network administrator needs to know router settings. You were given a group assignment to set up Cisco routers.

This assignment is for everyone and you may use any available routers. Set up home/office router and screen capture as you perform the setup. If you already have a router setup at home, login and learn the settings. Make sure to include lots of explanation on each capture. I will paying particular attention to LAN, WAN settings, DHCP, NAT, Security, routing tables and port forwarding screens.

If you need to use a router for an hour or two to complete the assignment, please see me, I will lend you one.





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NETGEA SMART	VIZARD Virules N 300 Rover model WH22000/2		Select Language: English • Apply
Setup Wizard	LAN Setup		LAN Setup Help
Add WPS Client     Setup	Device Name	WNR2000v2	The default LAN settings work for most users.
<ul> <li>Basic Settings</li> </ul>	LAN TCP/IP Setup		Device Name
Wireless Settings	IP Address	192 . 168 . 1 . 1	This is a friendly name of this router. You can see this name representing the router shown in the Network on Vista Windows and the Network Explorer on all Windows systems.
<ul> <li>Guest Network</li> </ul>	IP Subnet Mask	255 . 255 . 255 . 0	
Content Filtering Logs	RIP Direction	Both V	LAN TCP/IP Setup
<ul> <li>Block Sites</li> </ul>	RIP Version	Disabled *	These are advanced settings that you may configure if you are a network administrator and your network contains multiple routers. If you make any changes to these settings you will need to restart your computer(s) for the settings to take effect.
Block Services			IP Address: Type the IP address of your router in dotted decimal notation (factory default: 192.168.1.1).
Schedule	Use Router as DHCP Server Starting IP Address	192 . 168 . 1 . 2	<ul> <li>IP Subnet Mask: The subnet mask specifies the network number portion of an IP address. Your router will automatically calculate the subnet mask based on the IP address that you assign. Unless you are implementing</li> </ul>
• E-mail	Ending IP Address	192 . 168 . 1 . 254	submatching, carculate the source mask description in address that you easing to description of the source of the
Maintenance Router Status			information with other routers. The RIP Direction selection controls how the router sends and receives RIP packets.
Attached Devices	Address Reservation  I DAddress Device Name	MAC Address	Both is the default. <ul> <li>When set to Both or Out Only, the router will broadcast its routing table periodically.</li> </ul>
Backup Settings	Add Edit Delete	MAC Address	<ul> <li>When set to Both or In Only, it will incorporate the RIP information that it receives.</li> <li>RIP Version: This controls the format and the broadcasting method of the RIP packets that the router sends. (II</li> </ul>
Set Password	Add Los Delete		<ul> <li>recognizes both formats when receiving.) By default, this is set for Disabled.</li> <li>RIP-1 is universally supported. RIP-1 is probably adequate for most networks, unless you have an unusual</li> </ul>
Router Upgrade	Apply Cancel		<ul> <li>network setup.</li> <li>RIP-2 carries more information. Both RIP-2B and RIP-2M send the routing data in RIP-2 format.</li> </ul>
Advanced			RIP-2B uses subnet broadcasting.     RIP-2M uses multicasting. (See note below.)
Wireless Settings     Wireless Repeating			Note: Multicasting can reduce the load on non-router machines because they do not listen to the RIP multicast address and
Function			will not receive the RIP packets. However, if one router uses multicasting, then all routers on your network must use
<ul> <li>Port Forwarding / Port Triggering</li> </ul>			multicasting.
WAN Setup			Use Router As DHCP Server
LAN Setup     OoS Setup			The Router is set up by default as a DHCP (Dynamic Host Configuration Protocol) server, which provides the TCP/IP configuration for the all the computers that are connected to the router.
QoS Setup Dynamic DNS			Unless told to change these settings by your ISP, leave the Use Router As DHCP Server check box selected.
Static Routes			If your ISP has you clear this check box, you must have another DHCP server within your network or else you must manually
Remote			configure the computer.
Management UPnP			<ul> <li>Starting IP Address: This box specifies the first of the contiguous addresses in the IP address pool. 192.168.1.2 is the default start address.</li> </ul>
Traffic Meter			<ul> <li>Ending IP Address: This box specifies the last of the contiguous addresses in the IP address pool. 192.168.1.254 is the default ending address.</li> </ul>
Web Support			
Knowledge Base			Address Reservation
<ul> <li>Documentation</li> </ul>			When you specify a reserved IP address for a PC on the LAN, that PC will always receive the same IP address each time it accesses the DHCP server. Reserved IP addresses should be assigned to servers that require permanent IP settings.
Lourset			To Reserve An IP Address:
192.168.1.1/LAN_lan.htm			1. Cick the Add button
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