Lab – 3: Inter–Networks

X = ______________ = Your Router & Switch

<table>
<thead>
<tr>
<th></th>
<th>Serial 0/0/0</th>
<th>To ISP</th>
<th>10.0.X.2</th>
<th>255.255.255.0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R-X</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gig 0/0</td>
<td></td>
<td>To CENTRAL Switch</td>
<td>172.16.0.X</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Gig 0/1</td>
<td></td>
<td>To SW-X Switch</td>
<td>192.168.X.1</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td><strong>SW-X</strong></td>
<td>VLAN 1</td>
<td>Switch Virtual Interface</td>
<td>192.168.X.2</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td><strong>Your PC</strong></td>
<td>NIC</td>
<td>Your PC to SW-X</td>
<td>192.168.X.3</td>
<td>255.255.255.0</td>
</tr>
</tbody>
</table>

Instructions:

1. Your SEAT # is ______________ ; and your X = ______________ (Router/Switch number).
2. Locate your Switch.
3. Plug a Cable from FAST 0/1 of your Switch into the nearest Patch Panel (Gray/Red/Green)
4. Next, plug a patch cable from ROUTER CONSOLE PORT X into the nearest available Patch Panel that is furthest away from the Switch Console Panel (use Port #, same as your Seat Number).
5. Then, plug a patch cable from SWITCH CONSOLE PORT X into the last unused Patch Panel (Port #).
6. Configure your Router and Switch using your Configuration Checklist to meet the requirements of the NETWORK DIAGRAM and TABLE above.
7. **Configure your PC’s Network Adapter as follows:**
   - **a.** IP Address: 192.168. X.3     Subnet Mask: 255.255.255.0
   - **b.** Default Gateway 192.168.X.1     DNS: 147.70.101.102
8. Plug your PC Network cable into the JACK of the Patch Panel connected to your Switch FAST 0/1.
9. Connect a patch cable from GIG 0/0 of your Router to the CENTRAL Switch (any Port).
10. Connect a patch cable from GIG 0/1 of your Router to your Switch’s GIG 0/1.
11. Configure RIP version 2 (no auto-summary) and advertise all connected Networks.
12. Configure a Default Route (0.0.0.0 0.0.0.0) to the ISP at IP Address: **10.0.X.1**