ACL Practice

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**Addressing Table**

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| --- | --- | --- | --- | --- | --- | --- |
| **Routers** | **Interface** | | | | **IP address** | |
| R2 | S0/0/0 (DCE) | | | | 11.0.0.2 /30 | |
| **G 0/0.10 (VLAN 10)** | | | | **192.168.10.1 /24** | |
| **G 0/0.20 (VLAN 20)** | | | | **192.168.20.1 /24** | |
| **G 0/0.99 (VLAN 99)** | | | | **192.168.99.1 /24** | |
| R1 | S0/0/0 | | | | 11.0.0.1/30 | |
| G 0/0 | | | | 192.168.50.1 /24 | |
|  |  | | | |  | |
| **PC Configurations** | | **IP Address** | | **Default Gateway** | | |
| Web Server | | 192.168.50.5 /24 | | 192.168.50.1 | | |
| FTP server | | 192.168.50.6 /24 | | 192.168.50.1 | | |
| P1 | | 192.168.10.5 /24 | | 192.168.10.1 | | |
| P2 | | 192.168.20.5 /24 | | 192.168.20.1 | | |
|  | |  | |  | | |
| **S2 Switch Config** | | **Interface** | **IP Address** | | | **Default Gateway** |
| VLAN: 10, 20, 99 (native)  Trunk ports: f0/1 | | VLAN 99 | 192.168.99.2/24 | | | 192.168.99.1 |

**Tasks**

* Configure routers R1 and R2. Use Serial **clock** rate 64000 in all cases.
* Configure the Switch S2 for VLAN 10, 20 and 99 as specified in the figure.
* Configure ACL in appropriate router so that the following can be ensured:
  + PC1 can access Web server, but not FTP server
  + PC2 can access FTP server, not Web server
  + Other accesses should be allowed

**Tests**

1. Ping from all PCs to other PCs
2. Check ACL for its correctness