

INF 343 Packet Tracer Project

A network needs to be developed consisting of 4 sites that has multiple vlans at each site. These sites must connect together by IPv4 and IPv6 with OSPF routing between sites. A datacenter must exist that provides DHCP, DNS, email, ftp, web, and syslog services at minimum. The network can be as large as you like but must consist of at least 6 switches, 8 routers, and 5 servers.

Due by end of week 6

The network then must be secured using concepts discussed in the class. Both types of access control lists, Dynamic ARP Inspection, form or forms of Network Address Translation (Static/Dynamic/Overload), device password security, switch port security, Syslog, NTP, CDP/LLDP, and SNMP should be implemented at various points in the network. For example, one site may be allowed to access web services but not ftp. Another example, certain workstations should be plugged into certain switch ports and ports should be shut down should another workstation be plugged into it.

Due by end of week 12