Skyreach Radiology Clinic - Network Architecture Proposal

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Skyreach Health Network

Remote Users
(Admins & Employees)

Internet/ISP Cloud

IPSec VPN Tunnel

Remote Site Edge VPN Router

IP: 10.20.1.1 /29

Remote User or Site Device
Test IP : **10.20.1.2 /29**

WAN Uplink

IPSec VPN Tunnel Termination at each firewall

Firewalls in HA configuration
Firewall WAN CARP Virtual WAN IP:
10.10.20.3 /29

WAN/ISP Handoff switch
(No config in GNS3)

Edge Firewall #1
Perimeter Security
Syslog/NTP/NAT
DHCP services
IP : **10.10.20.1 /29**

Edge Firewall #2
Perimeter Security
Syslog/NTP/NAT
DHCP services
IP : **10.10.20.2 /29**

IT Admin Network
VLAN 30
10.10.3.0/24

1Gbps Uplink
Core to Firewall

1Gbps Uplink
Core to Firewall

MDF/Demarcation Point

IT Switch
Management IP:
10.10.3.2

Layer 3 Core Switch
Internal ACL/VLAN Routing/
Default Gateway
Layer 2 Root Bridge
IP : 10.10.3.1

Guest Network
VLAN 40
Management IP :
10.10.4.0 /24

1Gbps Uplink
IT to Core

1Gbps Uplink
Guest to Core

Guest Switch
Management IP: **10.10.4.2**

Guest Wi-fi Network
Internet Traffic Only
via DHCP

Linux Admin Laptop

Syslog/Print Server
Static IP : **10.10.3.3**

LAG (2x1G)
Uplinks to Core

LAG (2x1G)
Uplinks to Core

Wireless Access Points
Installed in lobby

Radiology
VLAN 10
10.10.1.0 /24

Clinic
VLAN 20
10.10.2.0 /24

Radiology Access Switch
Management IP :
10.10.1.2

Clinic Access Switch
Management IP :
10.10.2.2

Windows DHCP Clients

Windows DHCP Clients

Radiology File Server
(Windows)
Static IP : **10.10.1.3**

Clinic File Server
(Windows)
Static IP : **10.10.2.3**