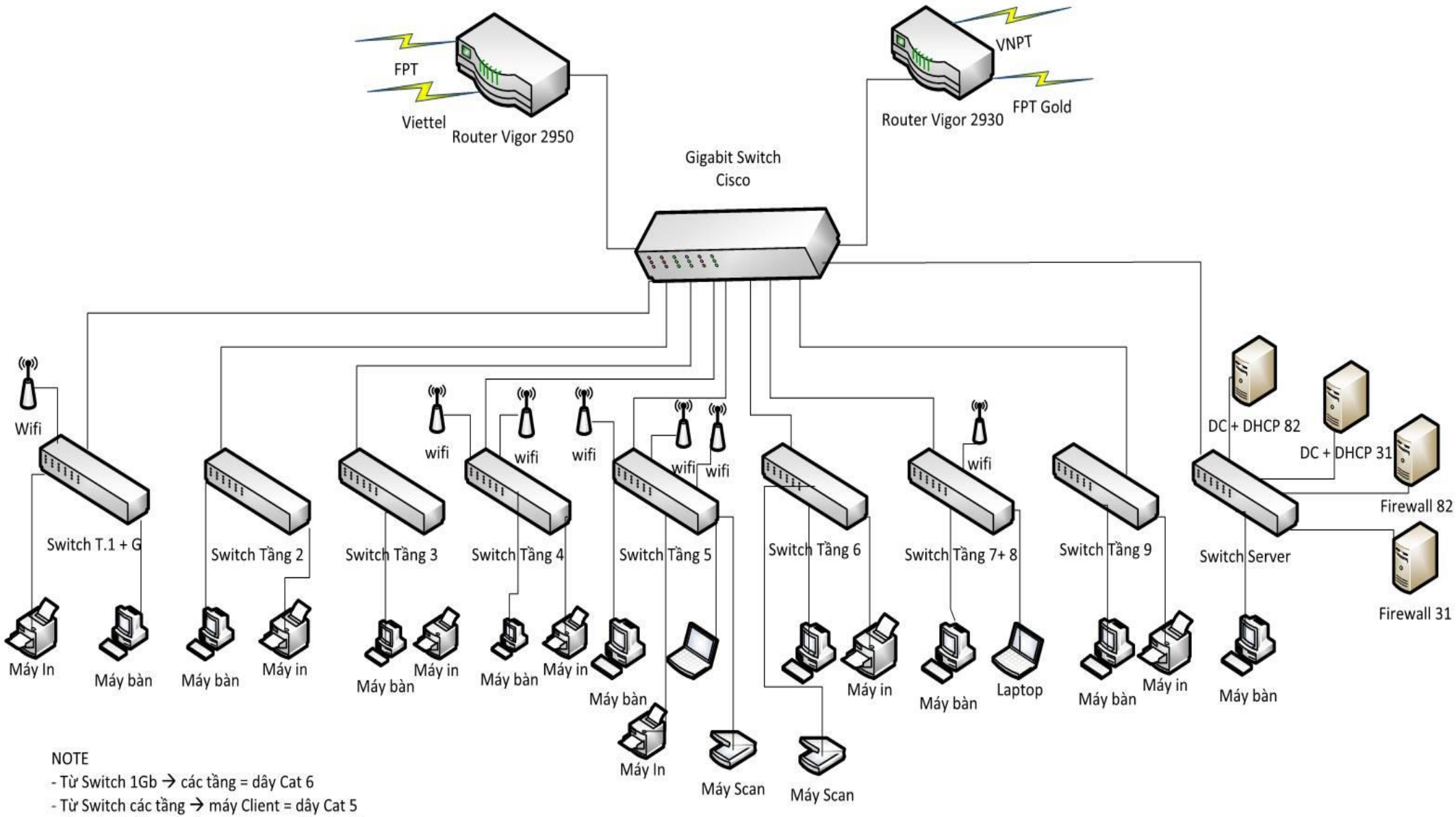
CISCO
FINAL PRESENTATION

NORMAL COMPANY WITH 150 USER AND 200 PC

VÕ MINH TRÍ



NOTE
- Từ Switch 1Gb → các tầng = dây Cat 6
- Từ Switch các tầng → máy Client = dây Cat 5
- Từ Switch tổng → các máy Server =dây Cat 6
- Switch của các tầng : Switch Cisco 100
- FTTH Viettel 50Mb
- FTTH FPT 50 Mb
- FTTH FPT Gold 50Mb
- FTTH VNPT 50Mb

MATERIAL

- VIGOR3200 ROUTER
- MERAKI CISCO MX400
- CISCO CATALYST 3560
- CISCO SMALL BUSINESS 100
- CISCO MERAKI WIRELESS LAN - MR32

VIGOR3200 ROUTER

Vigor 3200 Load Balancer Unified Security Firewall
- 4 Gigabit WAN: Outbound Policy-Based Load-Balance, BoD (Bandwidth on Demand), WAN Connection Fail-over
- 1 DMZ port
- 1 Gigabit LAN port with 4 VLAN and 7 Subnet.
- USB port for 3G modem and FTP/Printer server
- VPN sever with 64VPN tunnels, 30 SSL VPN tunnels, Easy for Branch-to-office, Teleworker-to-Office
- Real-time email/Syslog alert when virus/attack is detected
- Enterprise level Content Security Management (CSM)
- GlobalView Web Content Filter powered by CommTouch
- Dynamic DNS; multi-NAT; DHCP Server, DNS cache & proxy.
- Bandwidth Management: Class-based Bandwidth Guarantee by User-Defined Traffic categories, Bandwidth / Session Limitation, Routing/DHCP/ARP table.
- Bind IP to MAC, Internet Access Control/Retriction, Limit Access
- Firewall Facilities: SPI, CSM, Bind IP (DHCP) to MAC Address, IP Address Anti-Spoofig, DoS/DDoS Prevention, Policy-Based IP Packet Filter
- Firewall with SPI based IP filters, Dos/DDoS prevention, and Object-based policy for easy settings
- Secure remote management, SNMP Agent with MIB-II

MERAKI CISCO MX400
FIRE WALL

- **Hardware**SFP / SFP+ for 1G / 10G connectivity
- Swappable interface modules
- Stateful firewall throughput: 1 Gbps
- Redundant power supplies
- Supports approximately up to concurrent 2,000 users
- **Cloud-based centralized management**Managed centrally over the Web
- Classifies applications, users and devices
- Zero-touch, self-provisioning deployments
- **Networking and security**Stateful firewall
- Auto VPN™ self-configuring site-to-site VPN
- Active Directory integration
- Identity-based policies
- Client VPN (IPsec)
- Smart link bonding
- **Traffic shaping and application management**Layer 7 application visibility and traffic shaping
- Application prioritization
- Web caching
- Choose WAN uplink based on traffic type
- **WAN optimization**Reduces intra-site bandwidth consumption
- Accelerates CIFS, FTP, HTTP, and TCP traffic
- WAN optimization cache: 1 TB
- **Advanced security services**Content filtering
- Google SafeSearch and YouTube for Schools
- Intrusion prevention (IPS)
- Antivirus and antiphishing filtering
- Requires Advanced Security License

CISCO CATALYST 3560

Simple, Seamless & Secure Smart Office Solutions
That's how easy to put Cisco pieces together into your business.
Get it now
•Data Sheets and Literature
Compare Models
Improve Service and Security in Your LAN
View Compact Switch Interactive Model
The Cisco Catalyst 3560 v2 Series are next-generation, energy-efficient, Layer 3 Fast Ethernet switches. These new switches support Cisco EnergyWise technology, which helps companies manage power consumption of the network infrastructure and network-attached devices, thereby reducing their energy costs and their carbon footprint.
The new switches consume less power than their predecessors and are ideal access layer switches for enterprise, retail, and branch-office environments. They help you maximize productivity and provide investment protection by enabling a unified network for data, voice, and video.

Software

The Cisco Catalyst 3560 is available with one of two software images:
•IP Base software includes advanced quality of service (QoS), rate limiting, access control lists (ACLs), Open Shortest Path First (OSPF) for routed access, and IPv6 functionality.
•IP Services software provides a broader set of enterprise-class features, including advanced hardware-based IP Unicast and IP Multicast routing, as well as policy-based routing (PBR).

Simple Network Management

Available for the Catalyst 3560 Series, the Cisco Network Assistant is a centralized management application for switches, routers, and wireless access points. Free of charge, the application provides configuration wizards that greatly simplify the implementation of converged networks and intelligent network services.

CISCO SMALL BUSINESS 100

Cisco 100 Series Unmanaged Switches offer:

- **High-performance capabilities:** Get powerful network performance at an affordable price and give your office a boost of speed and capacity to support bandwidth-intensive applications
- **An eco-friendly solution:** A variety of power-saving features, including Energy-Efficient Ethernet, optimizes power usage and reduces energy consumption without compromising performance
- **Peace of mind:** All Cisco 100 Series Unmanaged Switches are protected for the life of the product by the Cisco Limited Lifetime Hardware Warranty
- **Ease of use:** Ready to use right out of the box, there is no software to install and nothing to configure

CISCO MERAKI WIRELESS LAN - MR32

•**deal use cases**
- Performance-critical wireless LANs
- High-density environments

•**Hardware features**
- 3 radios: 2.4 and 5 GHz, dual-band WIDS/WIPS
- 2-stream 802.11ac and 802.11n, up to 1.2 Gbps
- Integrated Bluetooth low energy radio
- Gigabit Ethernet port
- PoE: Full functionality with 802.3af
- AC adapter available

•**Cloud management**
- Network-wide visibility and control
- Self-provisioning for rapid deployment
- Automatic reporting
- Seamless firmware updates

•**Enterprise security**
- 802.1X and native Active Directory integration
- Air Marshal: real-time WIPS with forensics
- Stateful Layer 3-7 firewall
- Identity-based group policies
- Built-in antivirus scan (NAC)

•**Guest access**
- 1-click secure guest access
- Guest isolation firewall
- Customizable splash pages
- Integrated Facebook login

•**RF optimization**Dual-concurrent, 3-stream MIMO radios
•Radios optimized for rate-vs-range performance
•Third radio dedicated to security and RF management
•Built-in real-time RF spectrum view
•Cloud-based automatic RF optimization
•**Layer 7 traffic shaping**Classifies hundreds of applications
•Create per-application bandwidth limits
•Prioritize productivity apps
•Restrict or block recreational traffic
•**CMX location analytics**Measure visitor capture rate, visit length, and repeat visit rate
•Measure visitor trends over time and compare performance across locations
•Enable location services through integrated iBeacon functionality