CSET 2200

The future, misc

Questions

Today

- I have a loose agenda
- Will discusss future
- Consider it an AMA however
- I'll answer anything on industry, IT, etc.

Design

- Design could be an entire class
- We'll hit some highlights

3 layer design

- ▶ Core Layer
- ▶ Distribution Layer
- ▶ Access Layer

Collapsed Core

- ▶ Combine Distribution and Core layers
- ▶ Used in smaller networks

Campus Networks

- In a campus network multiple networks possible
- Data Center may have it's own 3 layer
- May have special pieces for service provider or LAN

The Future

- Wireless
- BYOD
- Cloud
- SDN
- IOT

Wireless

- ▶ Increasingly wired being replaced by wireless
- ▶ Newer gear approaches line speed
- ▶ Multiple VLANs supported
- ▶ Controller based solutions handle density
- ▶ Security needs configured

BYOD

- ▶ Bring Your Own Device
- ▶ Users bring personal devices to work on
- ▶ Pose security, confidentiality risks
- ▶ Need mitigated

Cloud

- Workloads increasingly moving out of local datacenter
- Centralized location
- Poses security and reach risks
- Virtual Private Cloud
- Big Data

SDN

- Software Defined Networking
- Blends traditional networks
- Tends to create overlay networks
- Any VLAN anywhere

IOT

- ▶ Internet of Things
- ▶ Connect all the things!!!!
- ▶ Explosive growth of devices connected
- ▶ IPv6 will help here
- ▶ Crappy comoditity devices need secured

Other things

Certifications

- Cisco has several paths
- Most people start with Route/Switch
- CCENT -> CCNA -> CCNP -> CCIE R&S
- CCDA -> CCDP -> CCDE
- Also Data Center, Security, Collaboration maybe one other

Questions on Content

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