

# **IT 609**

# **Network and System Administration**

## **Data Centers**

Thursday September 09, 2021

# Section Overview

- Data Centers
- Quiz #01

# Data Centers

A tour...

# Limit Access

# Limit Access



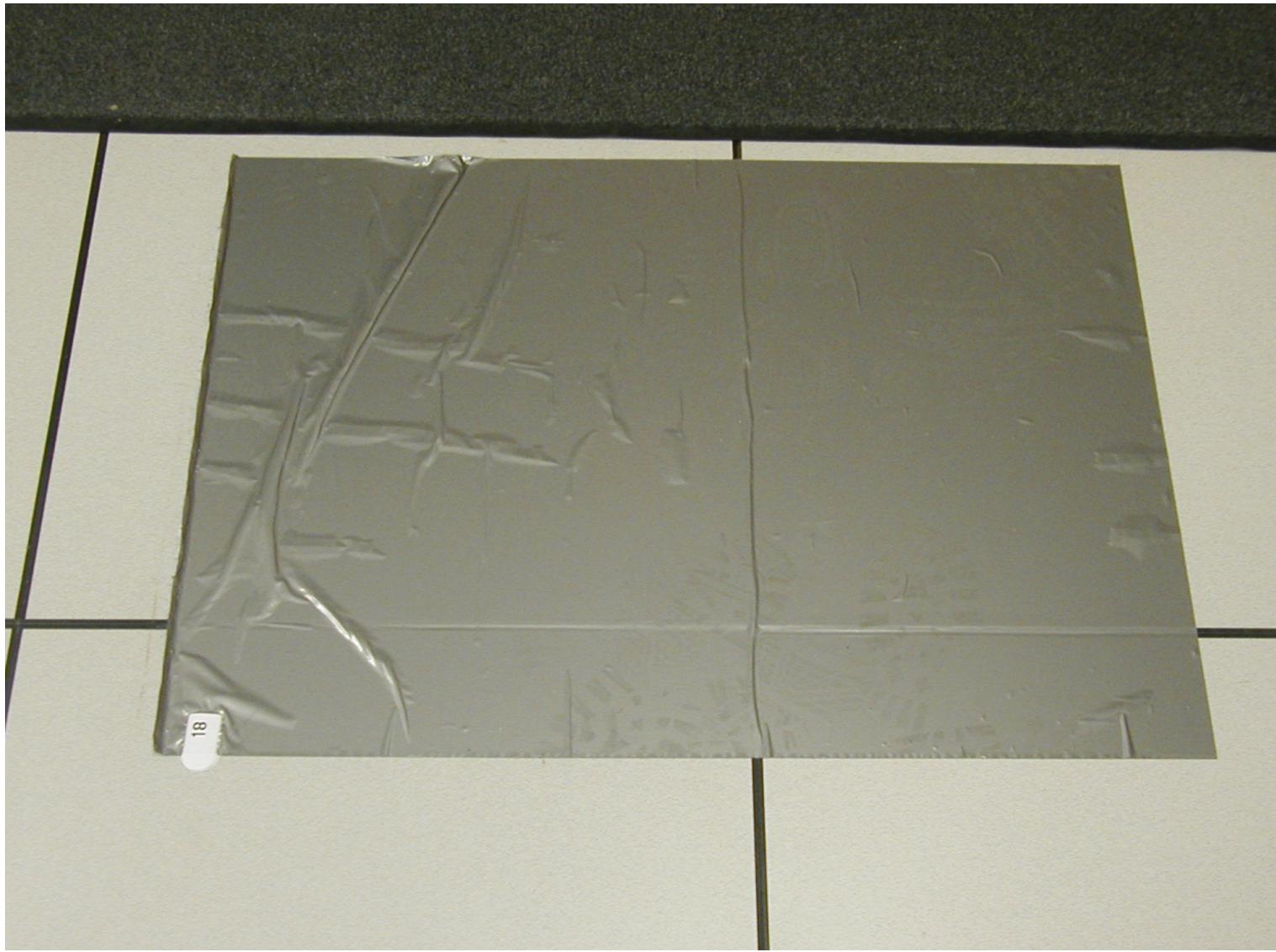
# Limit Access



# Limit Access



# Limit Access



# Organization

# Organization



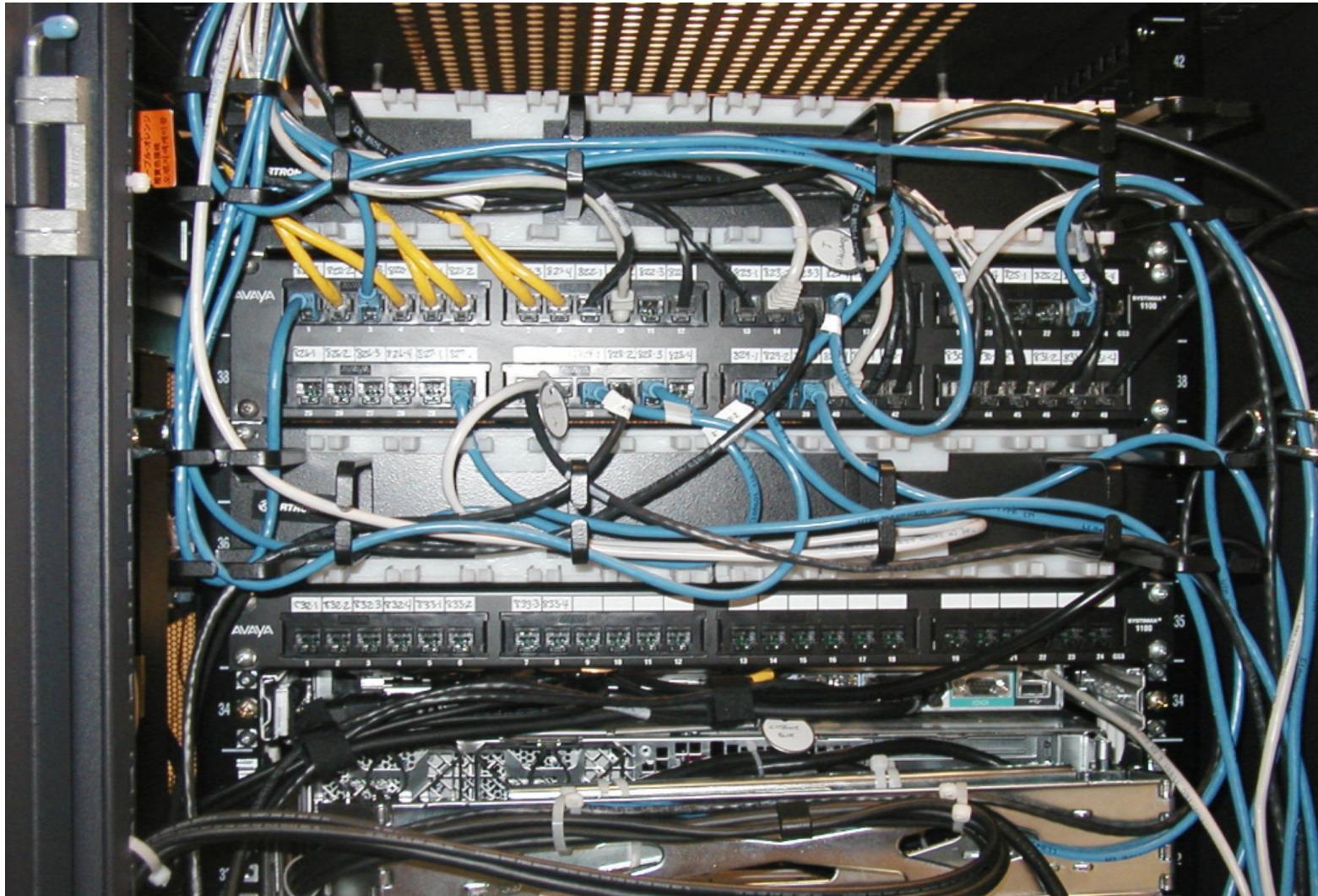
# Organization



# Organization

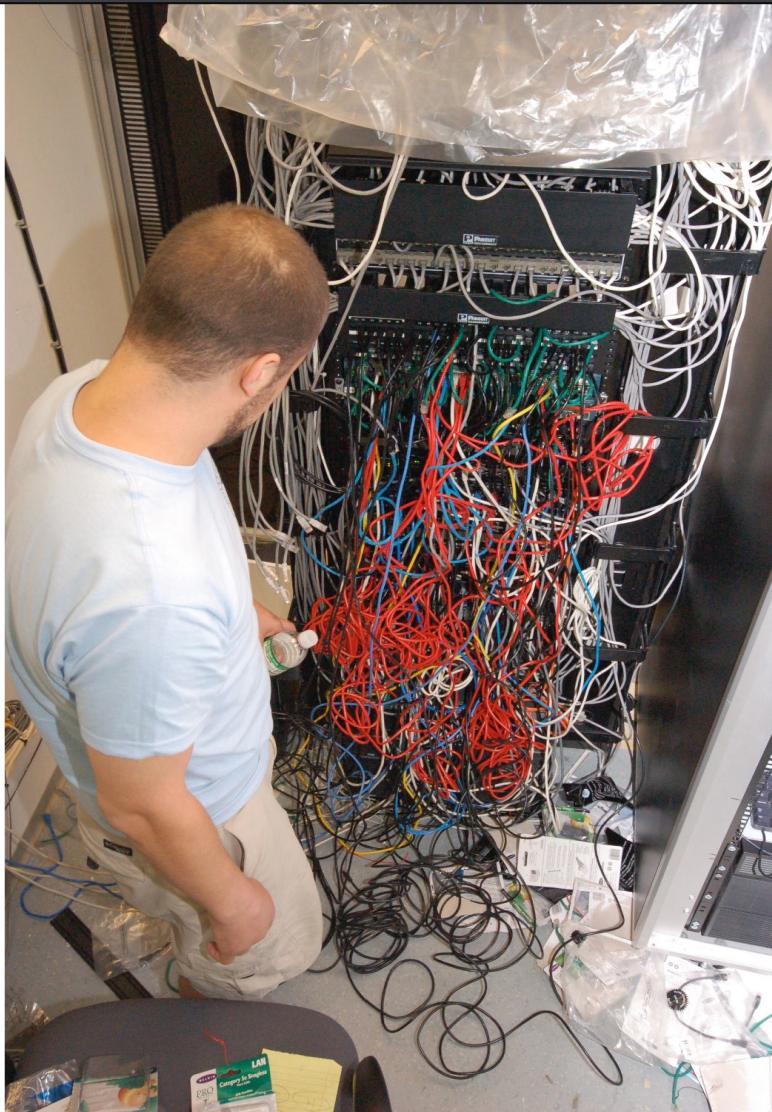


# Organization

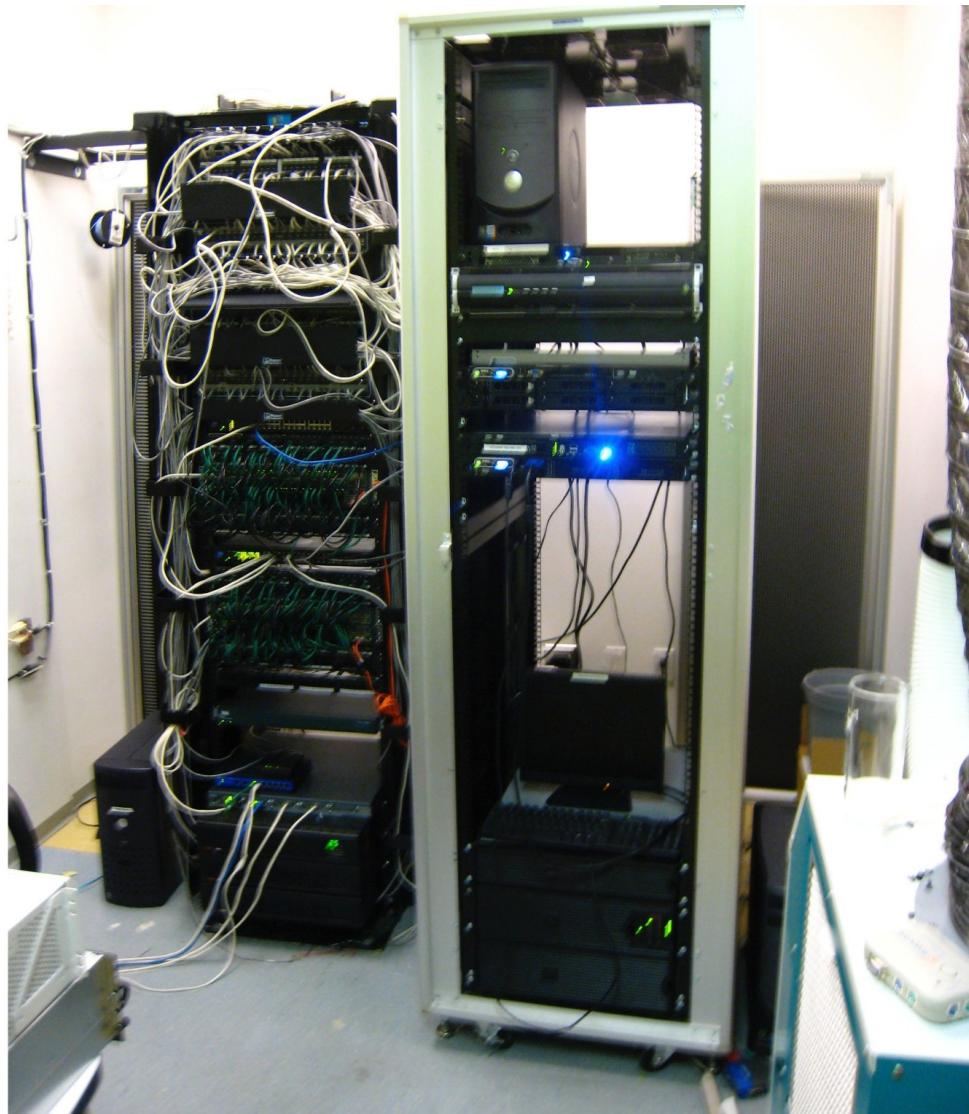


# Organization

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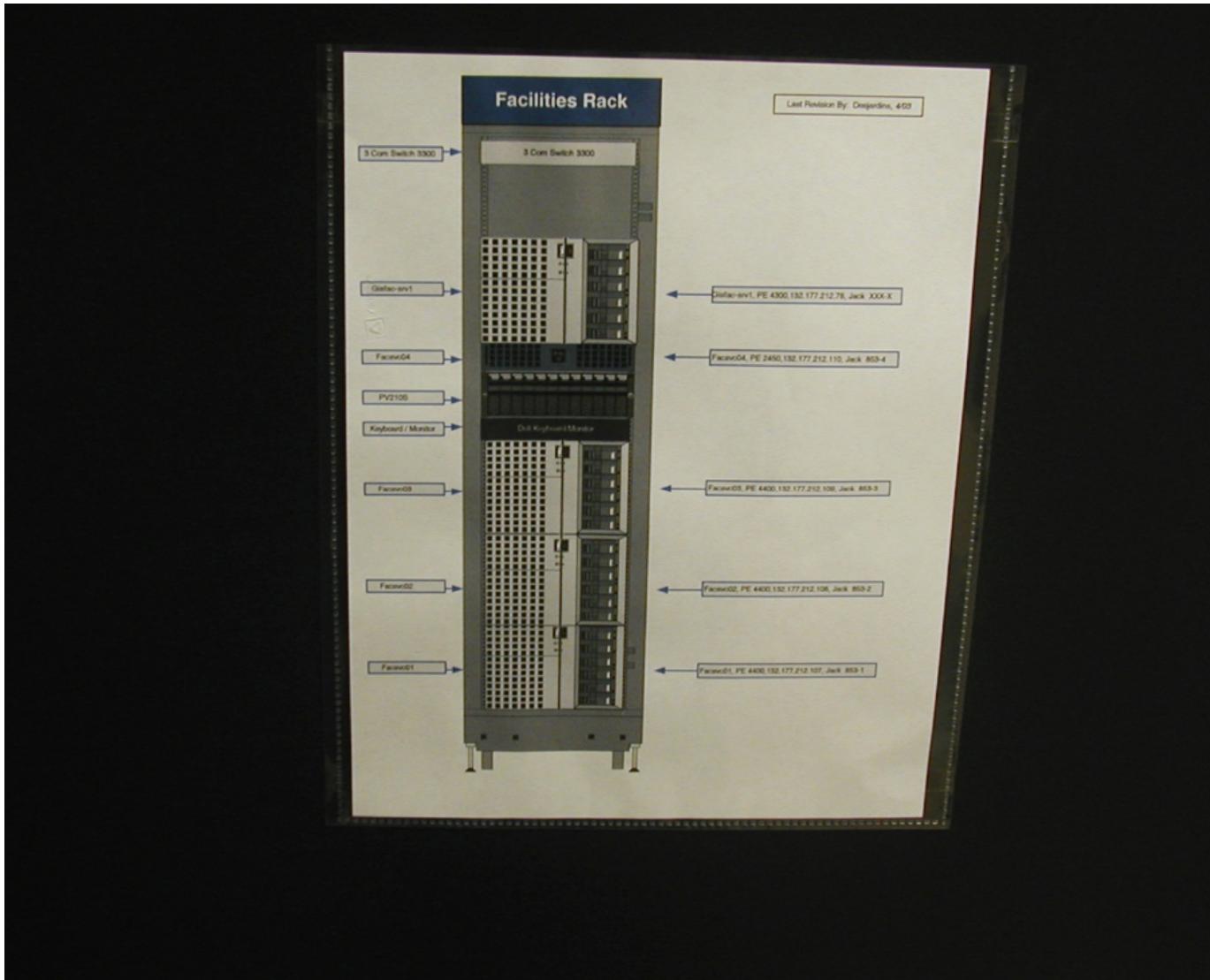
# Organization



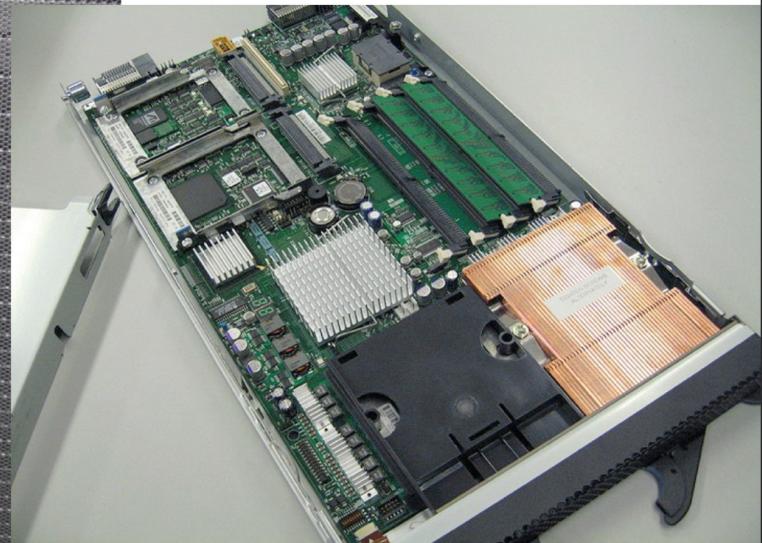
# Organization



# Organization



# Organization

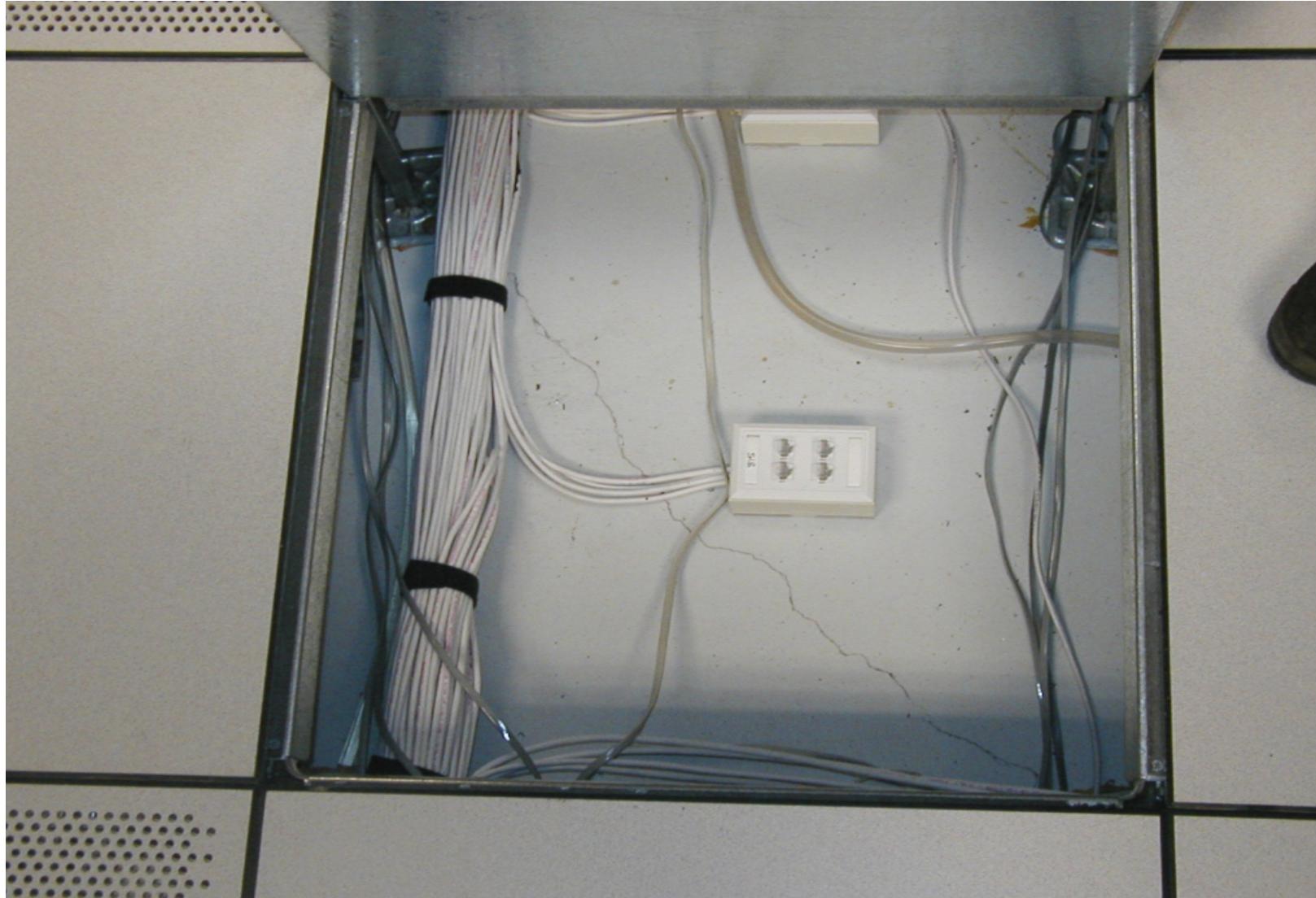


# Wiring

# Wiring



# Wiring



# Wiring



# Wiring



# Wiring

Welcome djb1!

REFRESH PRINT LOGOUT HELP

Avocent AutoView 3100/3200

Avocent

Unit View

Target Devices

Appliance

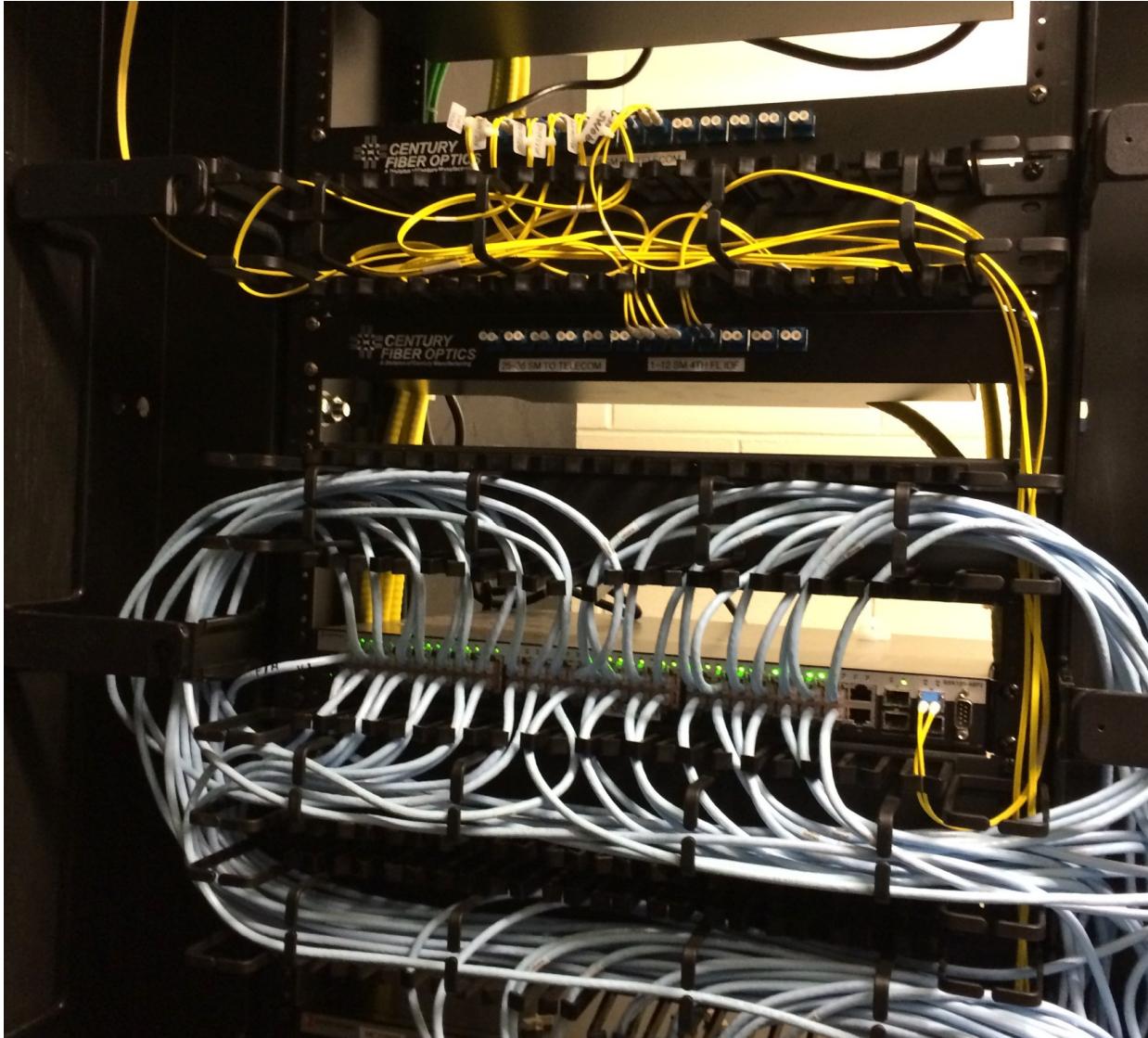
- Overview
- Properties
  - Identity
  - Location
- Appliance Settings
  - Network
  - Versions
- Ports
  - IQ Modules
  - Cascade Switches
  - OSCAR
- Sessions
  - Active
  - KVM Settings
- User Accounts
  - Local Accounts
- LDAP Accounts
  - Overview
  - Search
  - Query
- Connections

Target Device

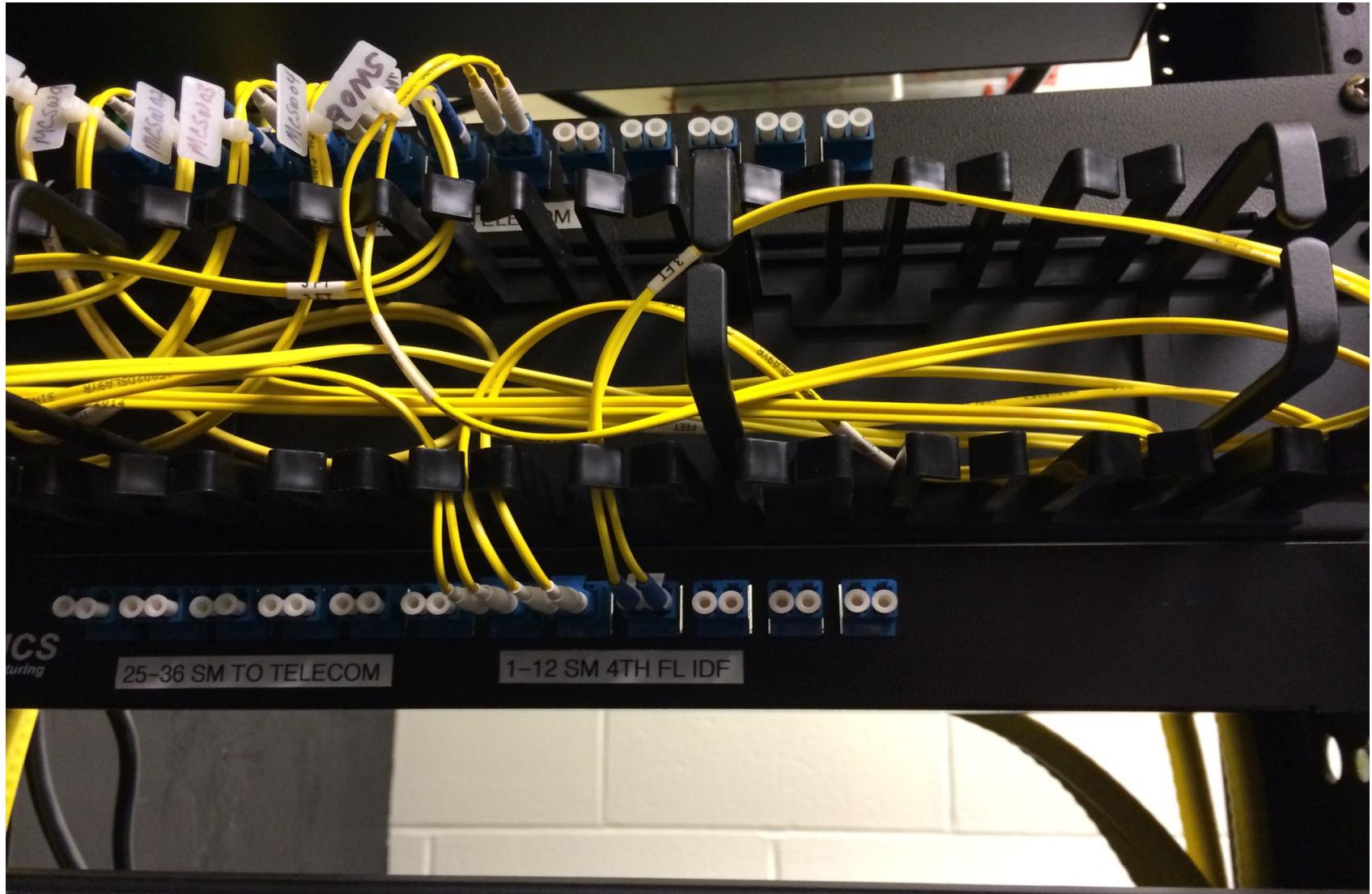
Name	Type	Status	Action
stampy	USB	Idle	KVM Session
blinky	USB	Idle	KVM Session
geech	USB	No Power	KVM Session
jubjub	USB	Idle	KVM Session
lumpy	USB	Idle	KVM Session
kang	USB	Idle	KVM Session
academic	USB	Idle	KVM Session
bitey	USB	Idle	KVM Session
furious-d	USB	Idle	KVM Session
bbvideo	USB	Idle	KVM Session
ilinc	USB	Idle	KVM Session
furious-george	USB	Idle	KVM Session
mojo	USB	Idle	KVM Session
laddie	USB	No Power	KVM Session
kodos	USB	Idle	KVM Session
uncle ant	USB	Idle	KVM Session
parker	USB	Idle	KVM Session

# Network Distribution

# Network Distribution



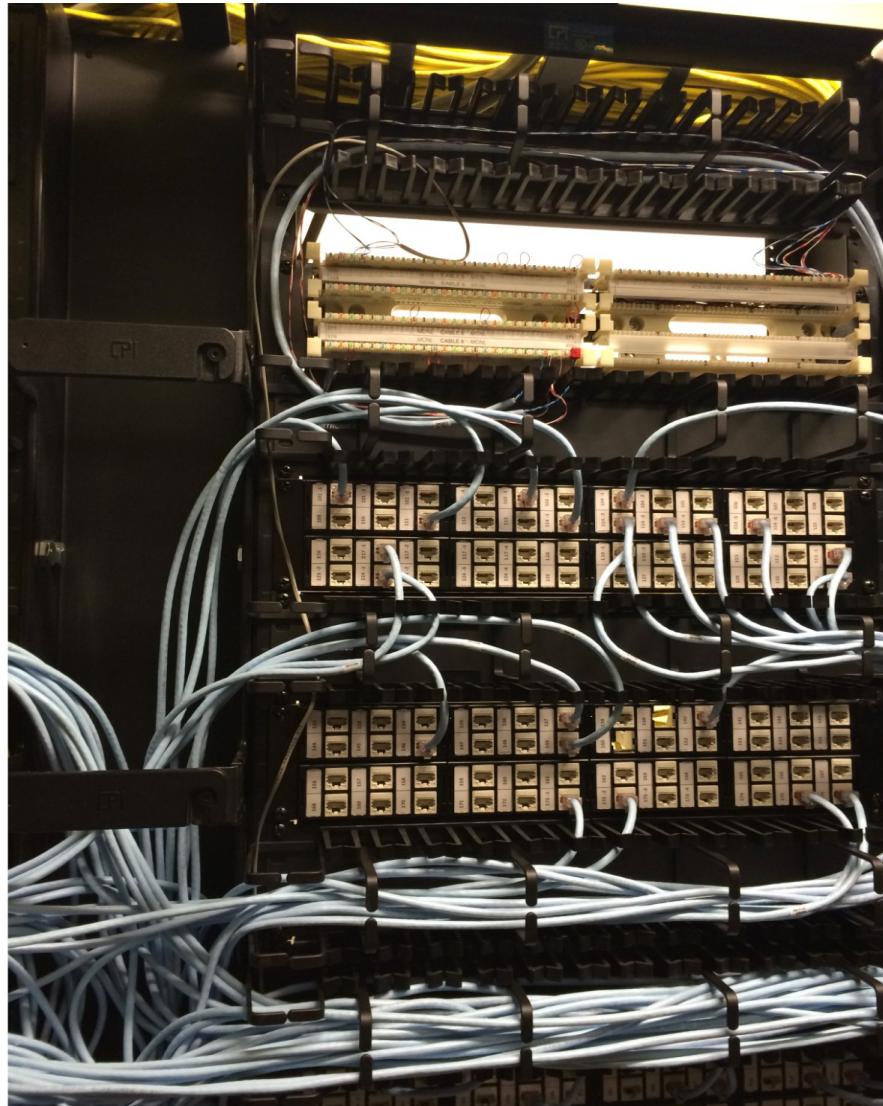
# Network Distribution



# Network Distribution



# Network Distribution



# Network Distribution

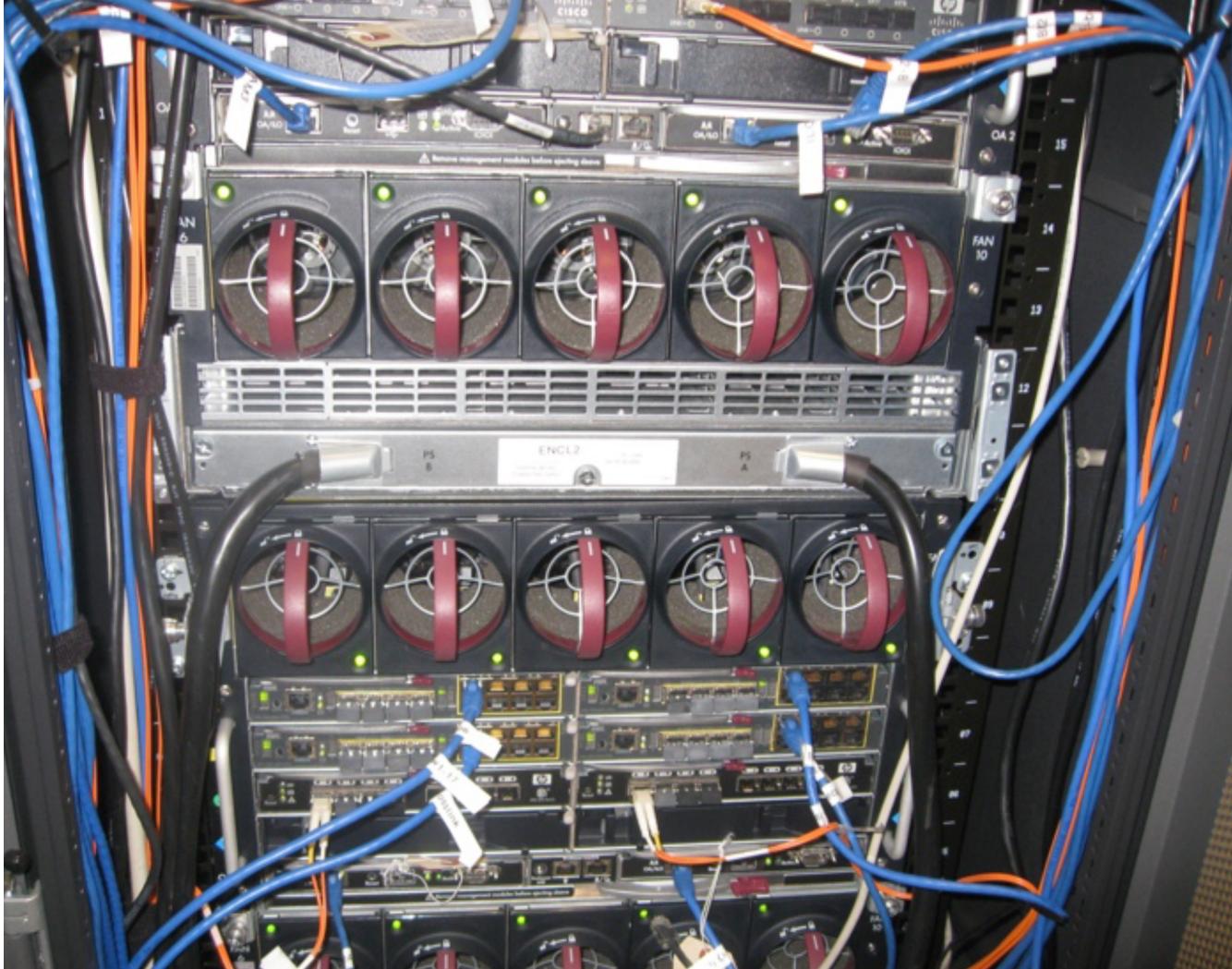


# Network Distribution



# Power

# Power



# Power



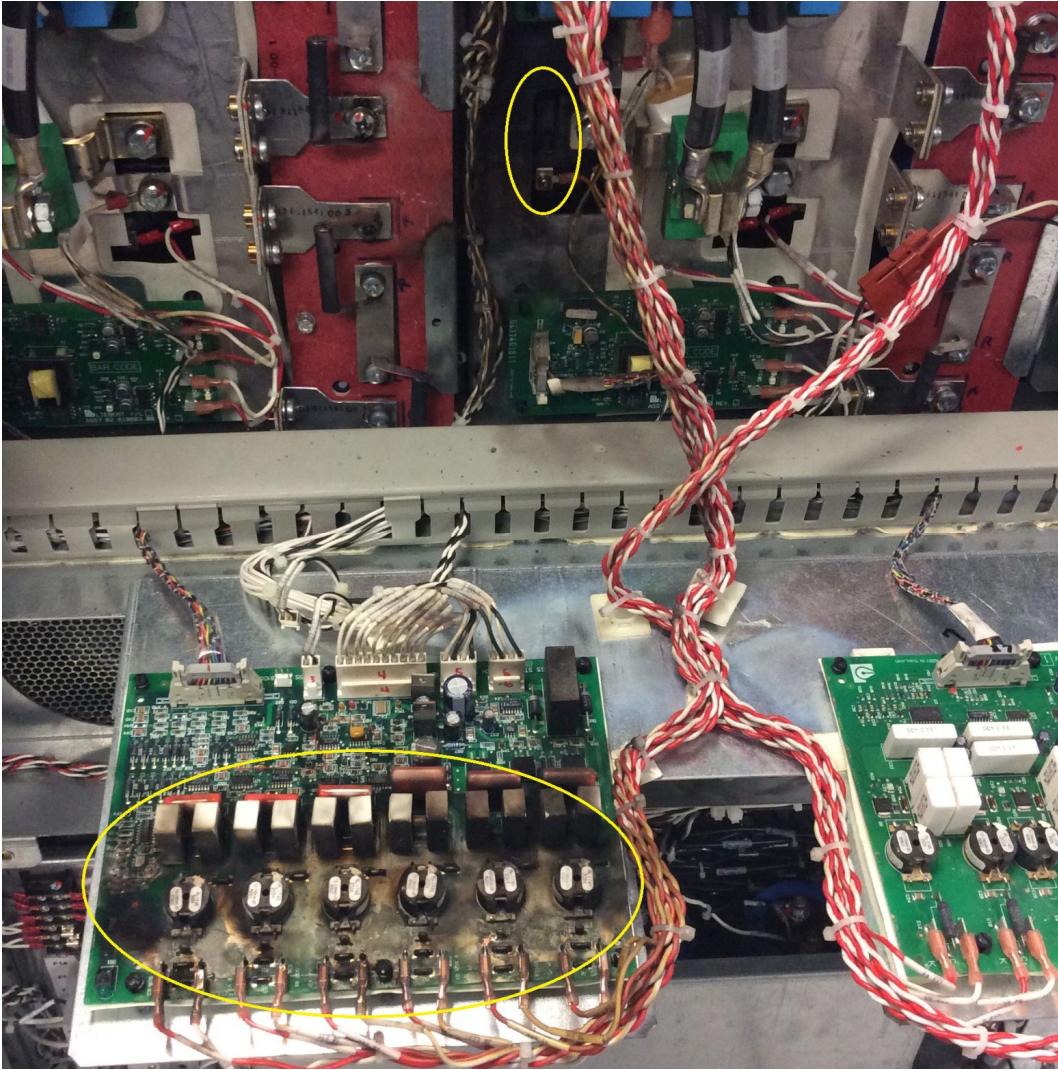
# Power



# Power



# Power



Sept. 2016  
UNH Data Center  
UPS Explosion

An IGBT failed in UPS1 (top circle).

The failure caused an electrical blast in the unit. The bottom circle shows the blast damage on the bypass board.

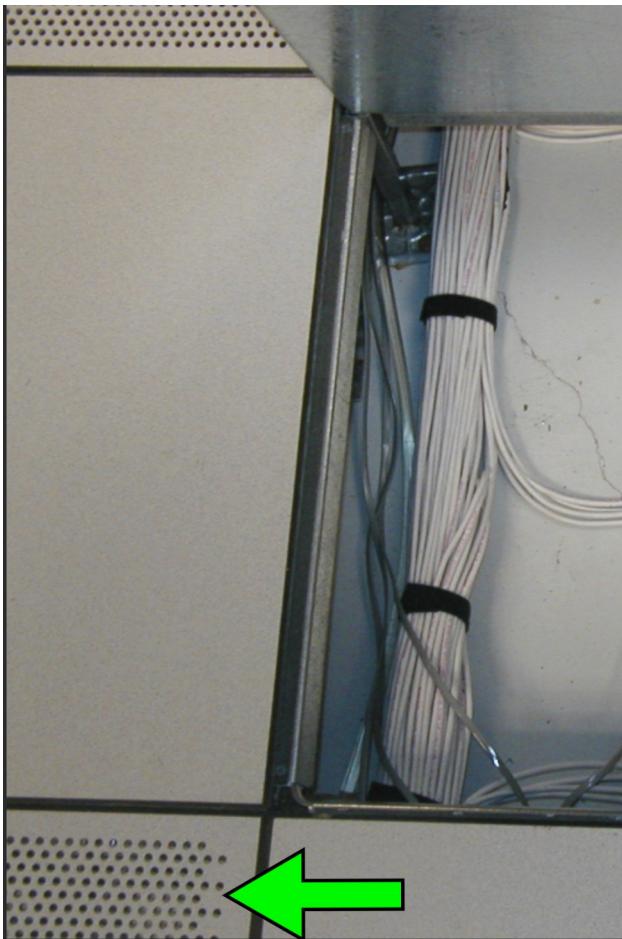
The resulting electrical spike cascaded through the Data Center tripping breakers and taking a second UPS offline and eventually led to HVAC shutdowns and temperatures of 120F. Many systems including most storage shutdown due to thermal protections in the hardware.

# Temperature

# Temperature



# Temperature



# Temperature



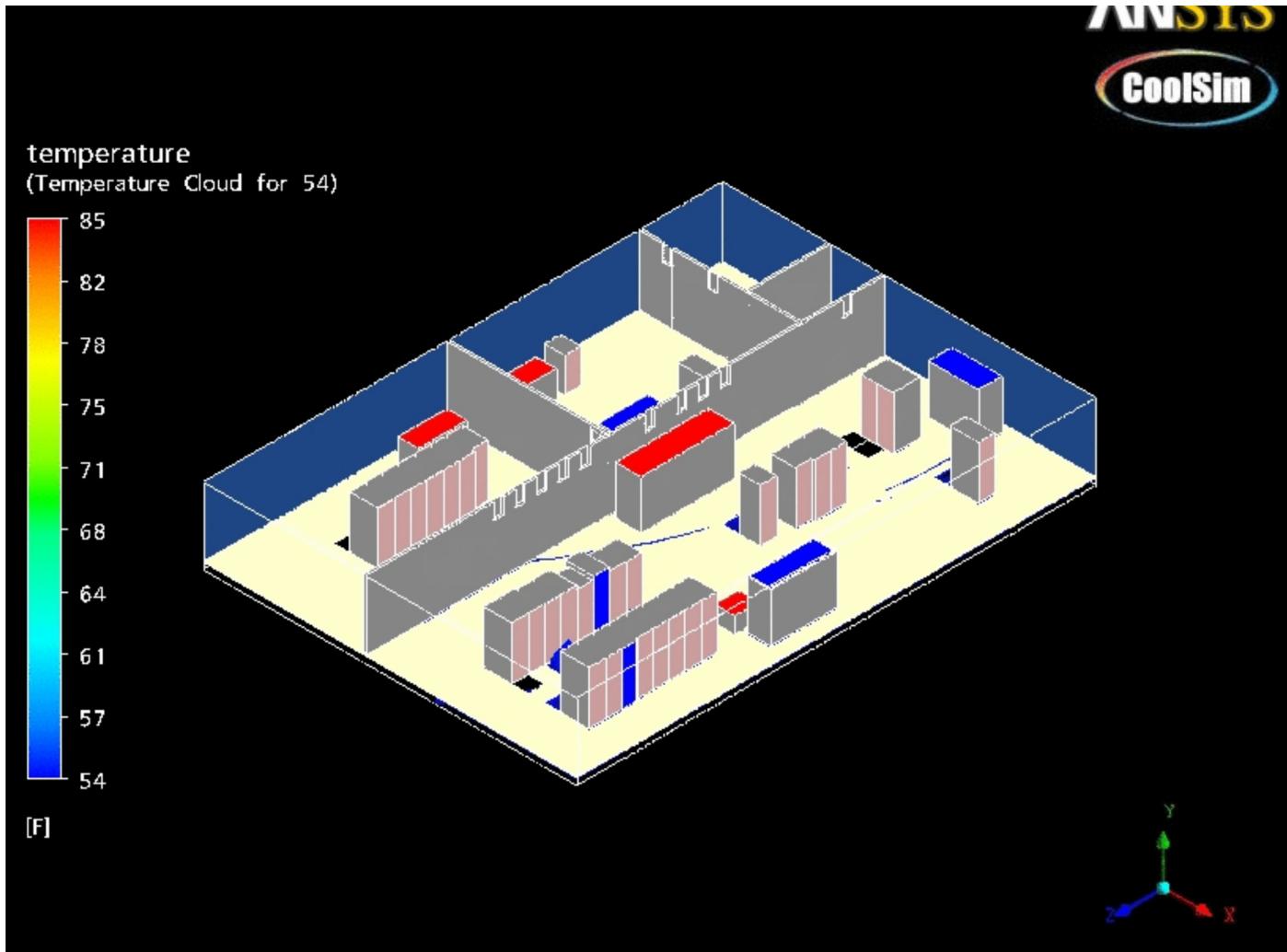
# Temperature



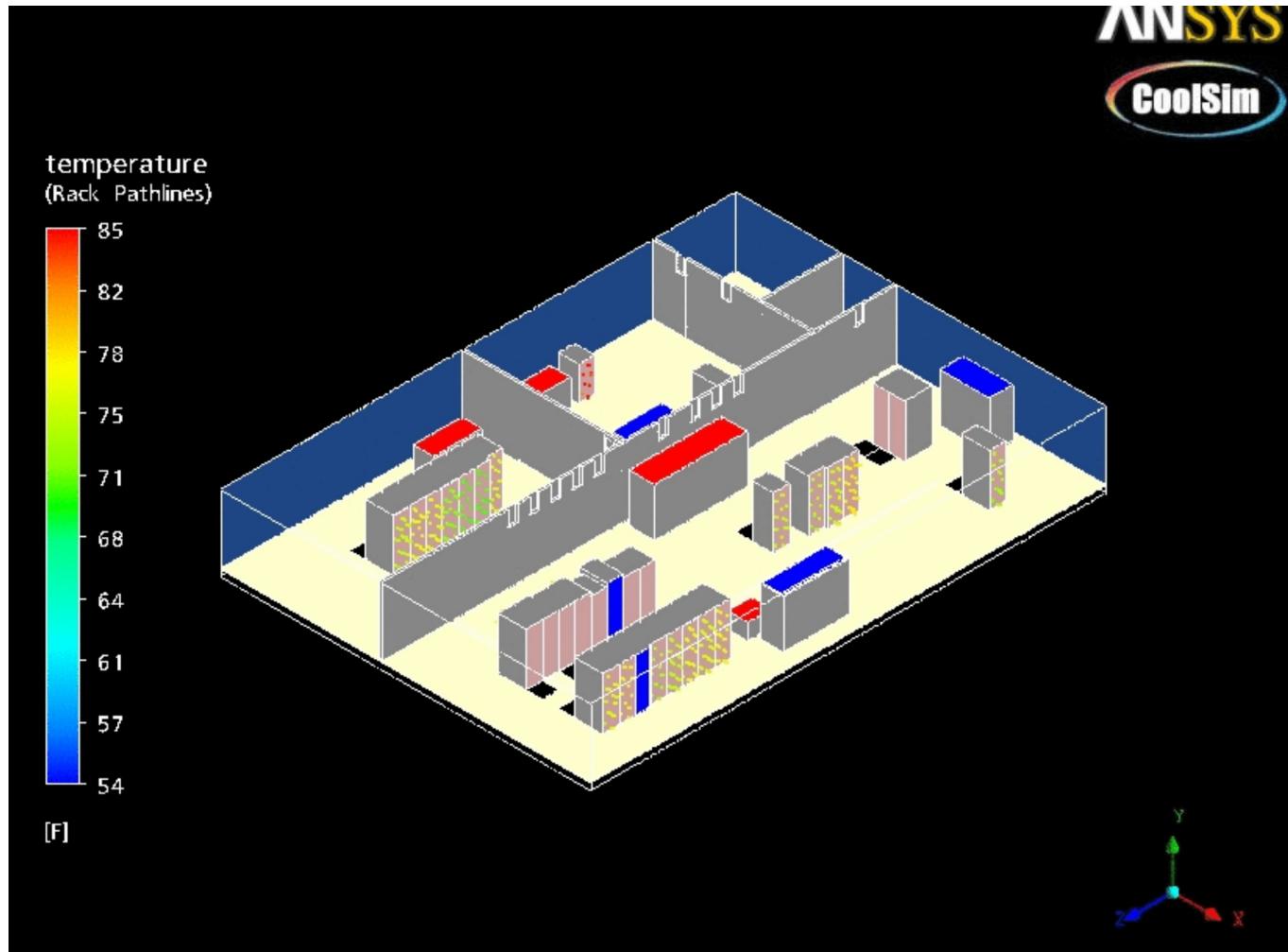
# Temperature



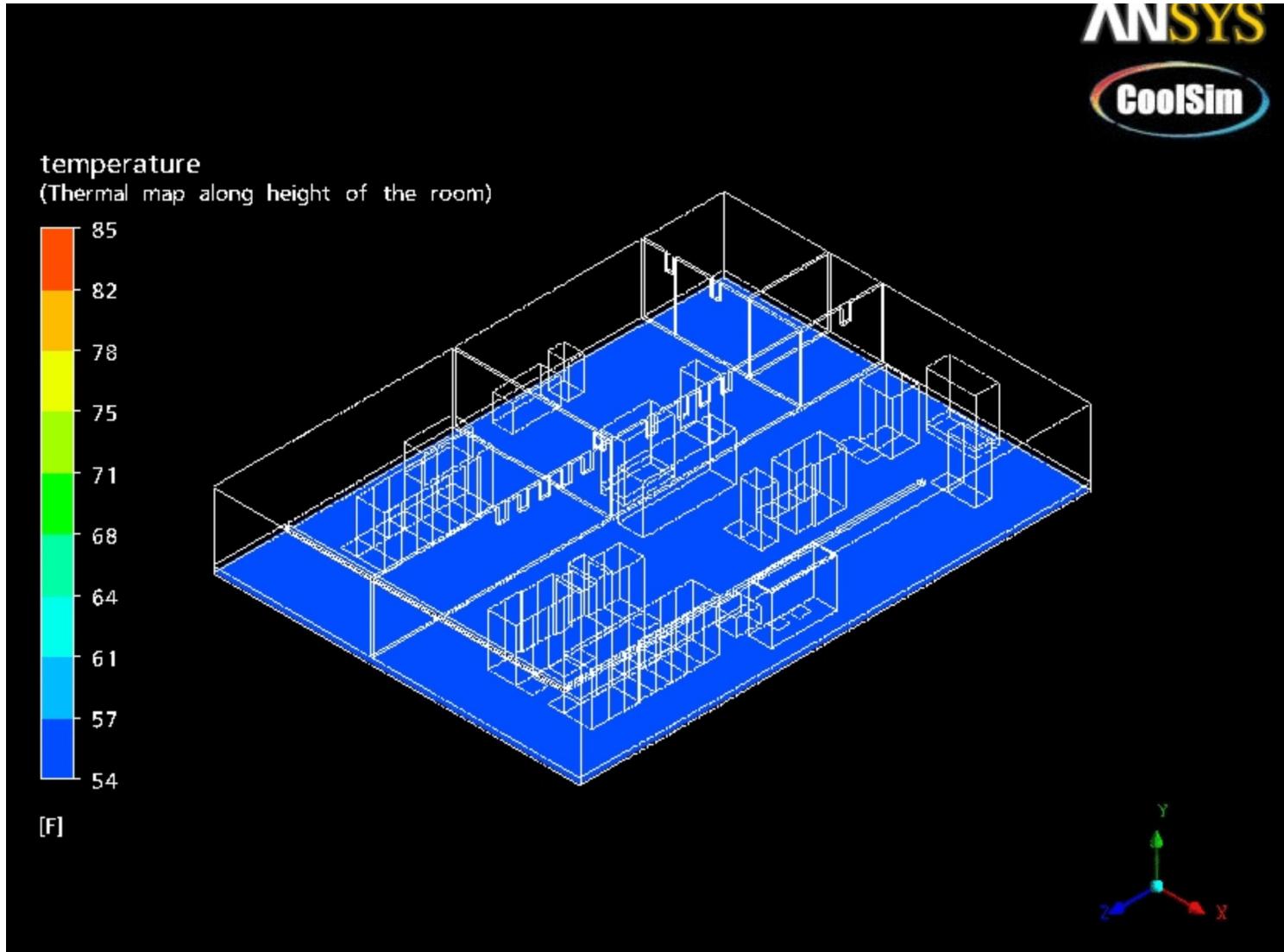
# Temperature



# Temperature



# Temperature



# Temperature



# Temperature



# Temperature

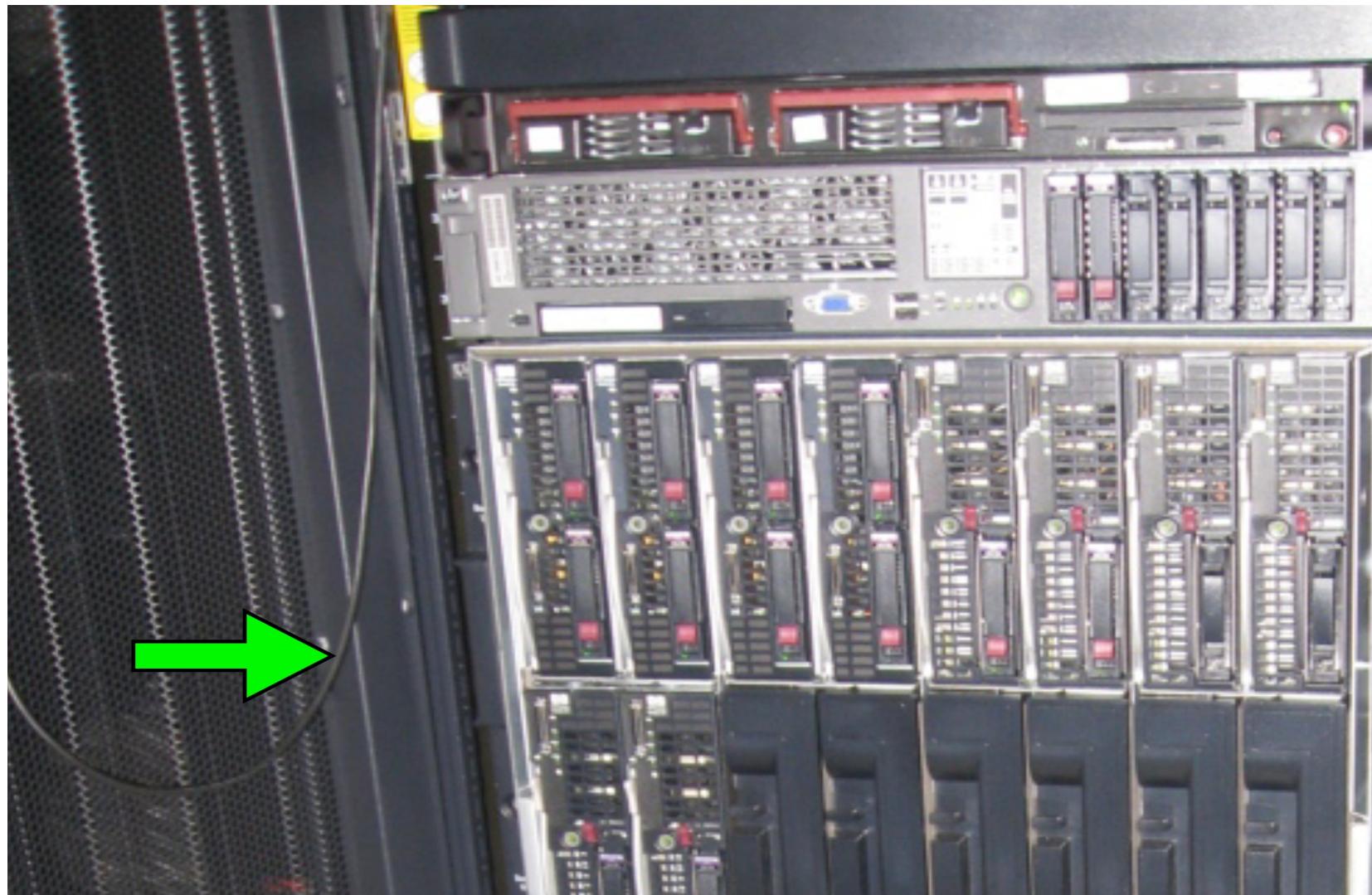


# Environmental Monitoring

# Environmental Monitoring



# Environmental Monitoring



# Environmental Monitoring



# Environmental Monitoring



# Environmental Monitoring



# Fire

# Fire



# Fire



# Fire



# Storage and Backup

# Storage and Backup



# Storage and Backup



# Storage and Backup



# Storage and Backup



# Quiz #01

# Homework Assignment

- Get on to Discord