Infrastructure Unit
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Infrastructure Unit: Areas

- Network
- Server rooms
- Authentication
- Directory services
- Account management
Network: infrastructure

- **Switches**
  - 8 core switch/routers
  - 200+ edge switches
  - 6000+ connected ports
  - Configuration and monitoring tools
  - Overall management

- **Routers**
  - 12 Linux edge routers
Network: services

- DNS
  - Local zones, DNSSEC-validating resolvers
- NTP
- OpenVPN
- DHCP
- Routing
  - OSPF, router-discovery
Server rooms

- Physical infrastructure
  - Racks
  - Power bars
- Consoles
  - Serial, IPMI
- Monitoring
- E&B and IS liaison
Authentication

- **Kerberos**
  - INF.ED.AC.UK and FRIEND.INF.ED.AC.UK realms
  - Cross-realm trust with EASE and other realms
  - 6000+ user principals
  - 10k+ host and service principals

- **Cosign**
  - Web applications

- **kx509**
  - Not much used now
Directory services

- OpenLDAP
  - User data
  - Authorization data
  - Sundry other stuff
    - Netgroups
    - Automounter maps
  - Around 25k entries
Account management

- Automatic creation and deletion
  - Tools (prometheus)
  - Database feeds
  - Manual configuration files
  - Kerberos, LDAP and AFS entries created
  - Lifecycle: accounts gracefully expired and deleted