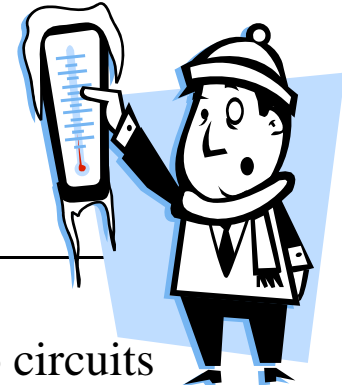


Physical Security

Server Rooms & Data Centers

Server Room Controls



- ❑ **Environment**
- ❑ Filtered air - dust reduces heat transfer and can cause heat damage to circuits
- ❑ Maintain a constant temperature be between 70-74F (21-23C)
- ❑ Maintain a constant humidity between 45-60% - High humidity causes corrosion and low humidity causes static electricity.
- ❑ Positive air pressure – air flow out of the room
- ❑ Protected air vents - possible entry point
- ❑ Positive flow water drains – protect from the risk of flooding
- ❑ Anti-static flooring
- ❑ Shielding from electromagnetic interference (EMI) and radio frequency interference (RFI)
- ❑ Uninterruptible power supplies (UPS) and surge suppressors
- ❑ Generators may be needed depending on the amount of tolerable downtime for your organization
- ❑ Fire Detection and Suppression Equipment

Server Room Controls

- ❑ **Doors, Windows and Walls**
- ❑ No more than two doors
- ❑ Locks, or electronic door locks
- ❑ Who has been assigned keys should be logged
- ❑ Strike-plates on doors
- ❑ Tamper-resistant hinges on doors
- ❑ Resistant to forcible entry
- ❑ Fire rated doors and walls
- ❑ No windows or doors to the outside of the building
- ❑ Internal windows should be small and shatter or bullet proof
- ❑ Walls should extend beyond any false or drop ceilings
- ❑ Security Mesh to help stop break-ins through gypsum walls
- ❑ For highly sensitive areas you may need tempest shielding



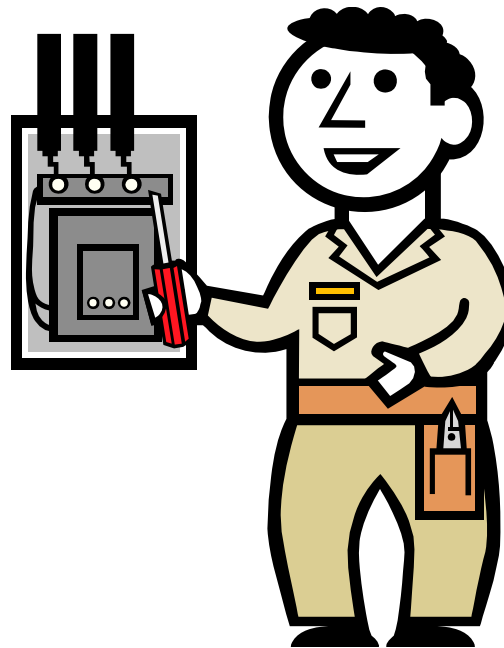


Server Room Controls

- ❑ **Location of the server room or data center**
- ❑ Should not be on the top floor
- ❑ Should not be in the basement
- ❑ Should not be on the first floor
- ❑ Should not be located near stairs, bathrooms, water pipes, elevators or EMI emissions
- ❑ It should be located at the center of the facility to help mitigate any external threats.

Why server room security is important

- Terrorist stole a complete computer from Australia





Server Room Controls

- ❑ **Access to the server room**
- ❑ Access should be limited to Information Systems (Technologies) staff member who need access to perform their duties.
- ❑ Access to the server room be logged - records who had access when to the server room and when (Audit Trail).
- ❑ Escort non-IT staff while they are in the server room. Untrained individuals should be watched while they are in the server room. This helps mitigate the risk of an accident or malicious actions.
- ❑ Additional access controls such as smart cards, biometrics, or electronic combination locks
- ❑ Guards – for highly sensitive areas
- ❑ Mantraps – for highly sensitive areas
- ❑ Intrusion detection - alarms
- ❑ Video Surveillance (Example NetBotz)