PREPARING FOR A HACK & RECONNAISSANCE

Information Gathering & Strategy for Cyber Resilience

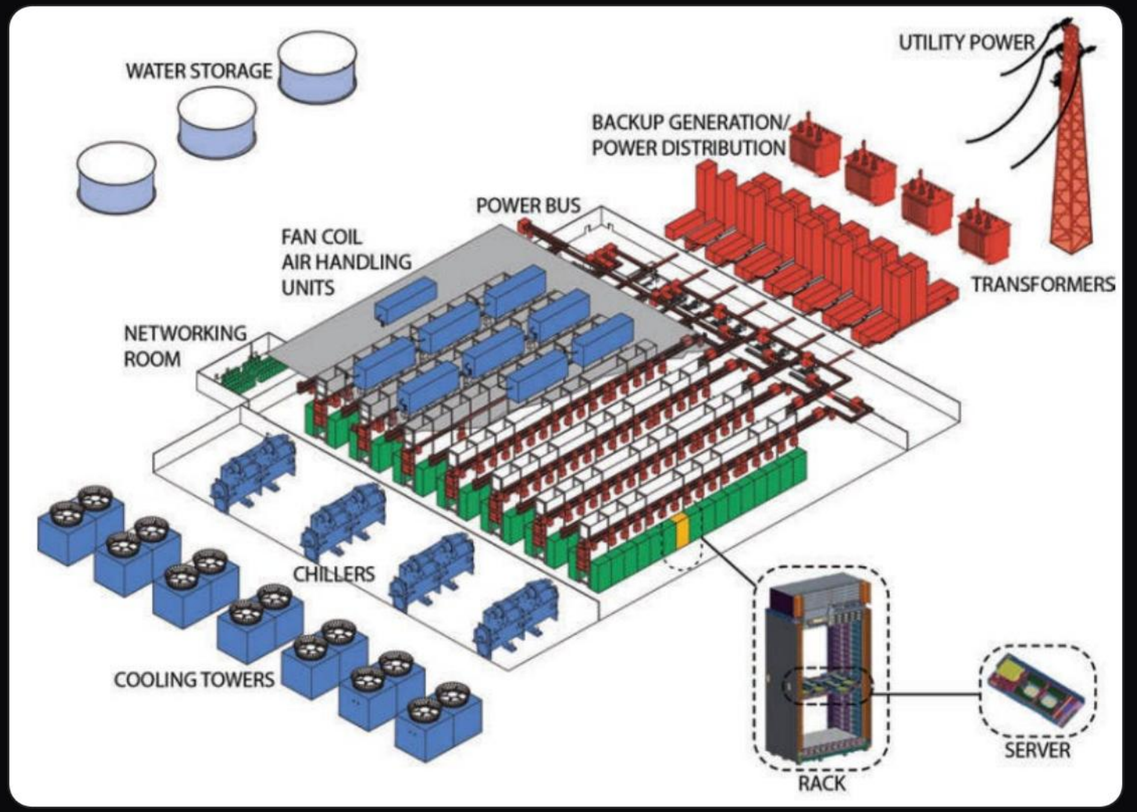
- Technical Prep
- Engagement Management
- Recon Techniques
- Social Engineering
- Physical Security
- Internet OSINT

Course: Ethical Hacking / Cyber Security | Module 02

Technical Preparation

- **Scope Definition:** Clearly set testing objectives and boundaries.
- **Authorization:** Obtain formal written approvals before any action.
- **Targeting:** Identify specific IP ranges and network assets.
- **Tooling:** Prepare frameworks and exploit environments.
- **Recovery:** Verify backup systems are operational.
- **Communication:** Establish channels for emergency response.

Goal: Safe execution without business disruption.



Managing the Engagement

Strategic Framework

- ✓ Develop detailed test plans & milestones.
- ✓ Define Rules of Engagement (RoE).
- ✓ Assign distinct roles and responsibilities.
- ✓ Monitor activities & provide status updates.

Engagement Benefits

- Optimized team coordination
- Drastically reduced operational risk
- High-precision reporting and audit trails

Reconnaissance Techniques

"Reconnaissance is the foundation of every successful attack."

Social Engineering

- Phishing & Vishing attacks
- Pretexting & Impersonation
- Psychological manipulation

Physical Security

- Access control evaluation
- Badge cloning & Tailgating
- Visitor management review

Technical Intel

- System fingerprinting
- Port scanning enumeration
- Service identification

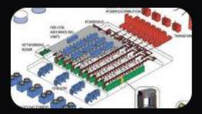
Internet Reconnaissance

- **DNS & WHOIS:** Domain enumeration and registrant details.
- **Google Dorking:** Advanced search reconnaissance for leaks.
- **Social Media:** Human intelligence (HUMINT) gathering.
- **Fingerprinting:** Identifying tech stacks and headers.

Why OSINT Matters?

Reveals exposed sensitive data and maps potential attack vectors before a single packet is sent to the target network.

Image Sources



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