

Network Security

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Objectives

- basic knowledge of security in computer network systems
 - Goals of Network Security
 - Attacks (threats) and Vulnerabilities
 - Vulnerabilities in computers and networks
- Encryption techniques & Authentication techniques
- Access Restriction : firewalls, intrusion prevention & detection malicious software
- Secure networking techniques and protocols
- Software security

Resources

- Textbook
 - Network security essentials, 4th edition, William Stallings
 - Security And Guide to Network Security, 5th edition, CompTIA, Mark Ciampa
- Online CTF: Labs
 - <http://www.root-me.org>
 - Other CTF online, whitehat
- VirtualBox or Vmware

Grading

- Middle evaluation
 - Attendance check
 - Test
- Labs
 - CTF online
 - Programming for software security
- Final examination

Q&A