

Unix System Administration

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Lecture 20 – Tuesday Apr 03

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Logistics

- Avenade talk tonight after class in ECCR 155
 - Free food from what I understand
- Guest talks from other sysadmins
 - Chris Triolo – Cybertrust
 - Security and vulnerability scanning
 - Matthew Woitaszek – Computational Science Center
 - Supercomputing and other bits
- Quiz 02 is long, don't start on it late!
- Moving back to security after email
 - Because it's interesting and cool

Cryptographic Hash Properties

- Cryptographic hashes have three general properties
- Preimage resistance
 - Given a hash value h , it is difficult to find the original message
- Second preimage resistance
 - Given a hash value h and its message m_1 , it is difficult to find another input m_2 such that $h = h(m_1) = h(m_2)$
- Collision resistance
 - It should be difficult to find two messages m_1 and m_2 such that $h(m_1) = h(m_2)$