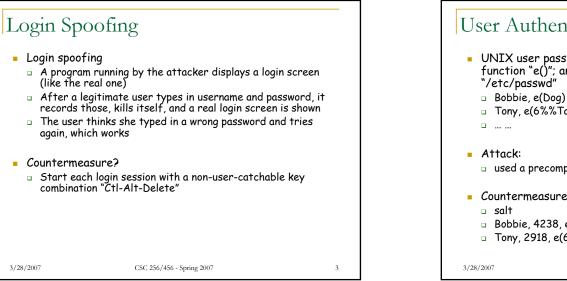
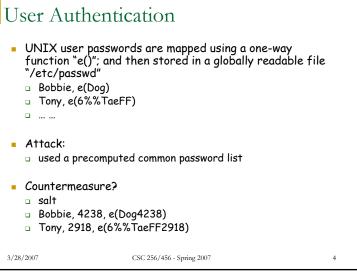
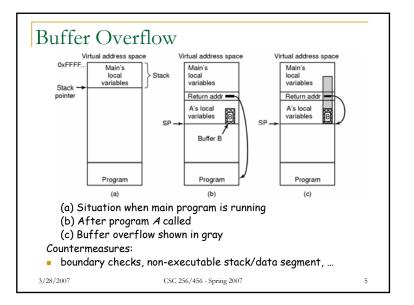
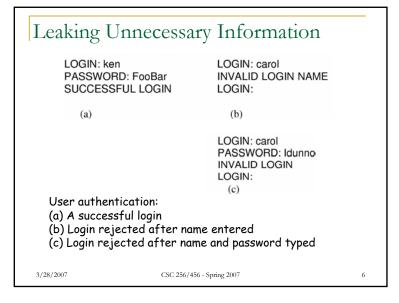
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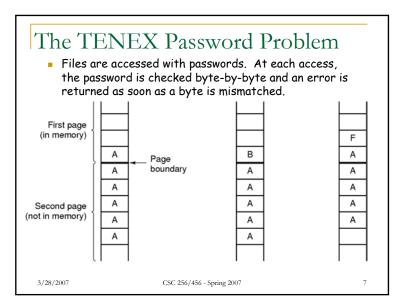
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We focus on	OS-related security issues.	
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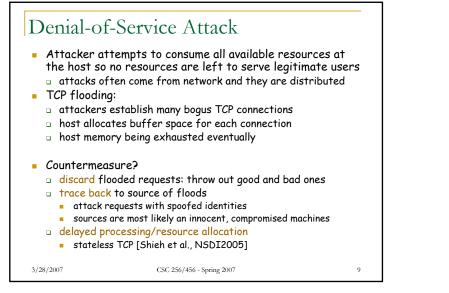


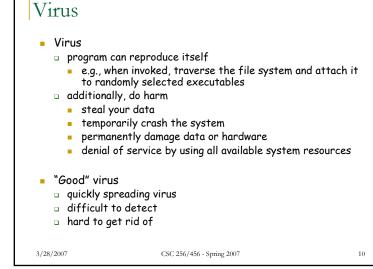


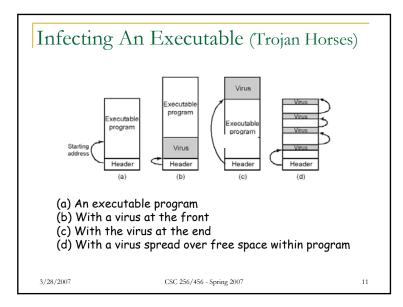
## Information Leaking Through Side Channel

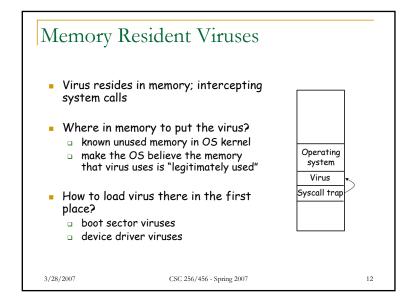
## Side channels

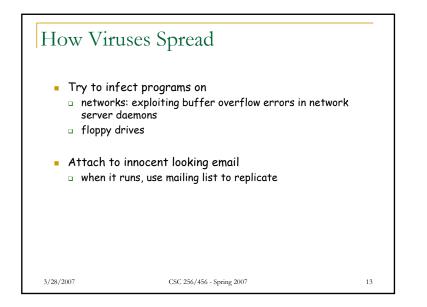
- performance observations
- program execution signals (e.g., cache usage, memory bus usage)
- Side channel attack on hyper-threading processors [Percival 2005]
  - OpenSSH running DES encryption on one hyper-thread
  - attacker running on the other hyper-thread
  - attacker and OpenSSH share hardware cache, so attacker can monitor its own cache miss pattern to infer the execution of OpenSSH (and its DES encryption key)

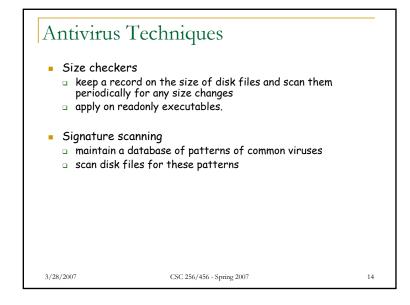


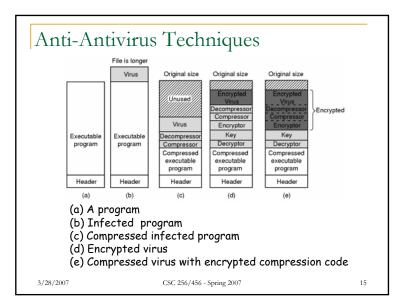


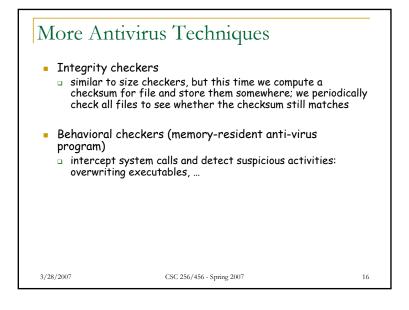












## Disclaimer

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