* Introduction
* How Protected Do You Feel?
* Overview of the CEH Certifica…
* What Certification Brings You
* Should I Watch This Series
* What’s Expected of You
* Review the CCA
* Overview How to Build a Lab t…
  + Don’t try on production network
  + Host Machine
    - Hyper-V
    - VMware
    - VirtualBox
  + Windows 8.1 Enterprise/server 2012R2
  + 16GB RAM
  + 50GB hard drive
  + 1 NIC(network interface card)
  + Virtual Machines
    - Windows 8.1 box
    - Windows 7
    - Window servers 2008/2012
    - Linux(BackTrack/Kali)
  + Configure your virtual environment
    - Private LAN
  + Download
    - Install from DVD/ISOs/thumbdrive
* The Host Machine
  + Go to TechNet evaluation center website
  + Login
  + Click on ‘Evaulate now’
  + Download the windows server 2012 R2
  + Download windows 8.1 enterprise
  + Download windows server 2008 R2
  + Download windows 7 SP1 with IE9
  + Download kali
* Installing The Host Machine
  + install windows server 2012 R2 with GUI
    - do custom install
* Installing Hyper-V on Your Host
  + add role or feature
  + choose role based installation
  + click Hyper-V
  + add features
* Configure Hyper-V Networks
  + select a private virtual switch
* Using VMWare
  + VMWorkstation 14 Pro
  + change network adapter to custom network
* Summary
* Introduction
* Virtual Machine: Server 2012R2
  + install OS with ISO
  + select the GUI
  + do custom install
  + turn on DEP in performance tab
  + do role based installation
    - Web server(IIS)
    - BITS
    - BitLocker Network
    - BanchCache
    - Client for NFS
    - Data Center Bridging
    - Direct Play
    - Enhanced Storage
    - Failover Clustering
    - Group Policy Management
    - Ink and Handwriting Services
    - Internet Printing Client
  + Add roles and features
    - Install SNMP Service
    - Set up community rights as READ ONLY
    - Accept SNMP packets from any host
* Virtual Machine: Server 2008R2
  + Do full installation
  + Turn on internet explorer enhanced security configuration
* Summary
* Introduction
* Virtual Machine: Windows 8.1
* Virtual Machine: Windows 7
  + Delete program ‘Virtual PC Integration Component’
* Virtual Machine: Kali
  + install generation 1
* Virtual Machine: Housekeeping
* Summary
* Information Security Overview
* Hacking vs Ethical Hacking
  + hacking
    - tacking an object and make them do something they weren’t design to do
* Fundamentals of Information …
  + authenticity
    - user is who they are
  + Integrity
    - where data is stored is valid
  + Availability
    - user cant get to their data
    - DOS is design to refuse availability
  + Confidentiality
    - customer data confidentiality
  + Non repudiation
    - no modifying data without accountability
* Speak like a Hacker
  + Exploit
    - way of curcumvaitng security
  + Hack Value
    - value hacker associated with a system
    - which system is more advantageous to get into
  + Vulnerability
    - weakness in design or implementation of the system
  + Target of Evaluation
    - system the hacker has identified that requires a security evaluation
  + Zero-day Attack
    - attack an hacker can issue against a target where there has been no patch or fix
  + Daisy-chaining
    - compromise a system and use the system to attack other system
    - hiding your attack
* The Technology triangle
  + Usability
    - Gui
  + Security
    - Restrictions
  + Functionality
    - Features
* Summary
* Overview of Threats and Attac.
* Threats: Hosts
  + Foot printing thread
    - Every computer/system responds a specific way
  + Physical Security
  + Passwords
    - Length is better than special characters
  + Malware
  + Denial of Service
  + Unauthorized Access
  + Privilege Escalation
  + Back Doors
* Threats: Natural & Physical
  + Earthquakes
  + Hurricanes
  + Floods
  + Natural Disasters
  + Theft
  + Impact
  + Power
  + End of Life
    - Decommission
* Threats: Applications
  + Configuration
  + Buffer Overflow
  + Lazy Coding
  + Data/Input Validation
* Threats: Human
  + Malicious Employees
  + Lack of Training
  + Social Networking
  + Hackers
* Threats: Networks
  + Sniffing/Eavesdropping
  + ARP Poisoning
    - Address resolution protocol(ARP)
    - ARP in charge or resolving IP address to MAC address
  + DoS
  + Spoofing
    - Send data across network that make it seems like it came from another computer
* Threats: Where Do They Come..
  + External
* Attack Vectors
  + VM & Cloud environments
  + Unpatched OS/software
  + Social networking
  + Internal users
  + Hackivism - hacking for a cause
  + Malware
  + Botnets
  + Security staffing
  + Lack of security policies
  + Compliance with regulations/laws
  + Complexity of network infrastructure
  + Mobile devices
  + Ransomware
  + Advanced Persistent Threats
  + Phishing
  + Web Applications
  + IoT(internet of things)
* IPv6 Issues
  + Auto configuration
  + Incompatibility of logging systems
  + Default activation
  + Shortcuts
  + Bigger headers
  + 4to6 translation
  + Multiple IP’s per device
  + Network discovery
* Summary of Threats and Attac…
* Overview of Hacking Concepts
* Hacking Defined
  + Exploiting a systems vulnerabilities and security controls to gain access to system resources and features outside the creator’s original purpose
* History of Hacking: In the Begi..
* History of Hacking: Currently