Firewall: One day introductory course

- Introduction
- TCP/IP Recap
- Firewall Basics
- ipchains, iptables (Netfilter)
- Implementation for home use
- Implementation for business use
- Firewall Management
- 1. Introduction (morning session)
 - what is a firewall
 - why do we need a firewall
- 2. TCP/IP concept recaps (morning session)
 - TCP/IP model
 - Layered concept
 - Common protocols and ports , TCP, UDP, IP, ICMP
 - TCP 3 way handshake and how it works
- 3. Firewall basics (evening session)
 - different types of firewalls
 - how each of it works; at what level /layer does it do checking
 - software/hardware based firewall
 - iptables and ipchains
 - basic configurations and usage, chains
- 4. Practical implementations (evening session)
 - implementation for a home
 - implementation for the office/business
 - firewall management (using firewall script/ruleset software/application)
 - GUI based/web based
- 5. Further reading/discussion
 - Firewall, why is it not enough
 - other threats that cannot be detected
 - as one of a method, not a means to solve security problems
 - sample of combination with firewall usage
 - IDS? IPS? what next?