

11200 Rockville Pike, Suite 220 Rockville, MD 20852 | Phone: 301-984-7400 | Fax: 301-984-7401 Web: www.asmed.com | E-mail: info@asmed.com

# Managing Virus, Trojans & Malware using Symantec Endpoint Protection (Customized Course)

### DAY ONE:

### One: Introduction and defining malicious software

- Viruses
- Worms
- Trojans
- Rootkits
- Malware
- Types of viruses
- Types of worms
- Types of Trojans
- Types of rootkits
- Types of malware

### LAB: Identifying the characteristics of malicious software

### **Two: Fundamentals of Windows Processes**

- Threads
- Handles
- SAT (Security Access Token)
- Windows Server Architecture
- User mode versus kernel mode
- Rings of the Intel Architecture

### LAB: User mode and kernel mode analysis

#### Three: Basic Process Analysis

- Process context
- Process priority
- Process image
- Process memory
- Process components
- Process path
- Process ports
- Process cpu interaction
- Identifying rogue process and Trojans



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#### LAB: Basic Process Analysis

### DAY TWO

#### Four: Advanced Process Analysis

- Process antecedence
  - Process description
    - o Vendor
    - o Version
    - o Location
- Process links into the registry
- Process links into the file system
- Process internal communication

#### LAB: Advanced Process Analysis

#### Five: Fundamentals of Linux, UNIX and OpenVMS Processes

- Dissecting memory artifacts
- Init process
- Reading process information
- Privilege level of processes
- Process context
- Process priority
- Process image
- Process memory
- Process components
- Process path
- Process ports
- Process cpu interaction
- Identifying rogue process and trojans
- Controlling processes

#### LAB: \*Nix processes

#### Six: \*Nix Process and File Analysis

- Processes that opened ports
- Running processes
- Open files
- Internal routing
- Loaded kernel modules
- Mounted file systems
- Path to a process

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- File system structure and time analysis
- Syslog analysis

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• Identifying suspicious processes and files

LAB: Process and File Analysis

#### DAY THREE

#### Seven: Malware Fundamentals

- Malware Ecosystem
- Sophistication and advances
- Characteristics of
- Challenges of detection
- Morphing of rootkits
- Detecting rootkits
  - o Traditional
  - Hooking
  - o DKOM
- Evasion techniques

### LAB: Malware Detection Challenges

### Eight: Introduction to Symantec Endpoint Protection Manager (SEPM)

- Technologies
- Components
- Policies
- Design
- Types of protections

### Nine: Initial Configuration of SEPM

- Accessing the SEPM
- Console
- Remote
- Dashboards
- Policy types and components
- Licensing
- Managing products

### LAB: Initial Configuration of SEPM



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# DAY FOUR:

# **Ten: Configuring Groups and Clients**

- Managing groups
  - Adding
  - o Moving
  - o Renaming
  - Disabling and enabling group inheritance

### LAB: Groups

- Managing clients
  - $\circ$  User mode
  - Computer mode
  - Unmanaged
  - Managed
  - Detection of unknown devices
  - o Running commands on

### LAB: Clients

# **Eleven: Policy Configuration and Customization**

- Management
- Shared
- Non-shared
- Adding, Editing and assigning policies
- Updating policies
  - o Push
  - o Pull
- Updating policies
  - o Manual

### LAB: Policies

### **Twelve: Monitoring via policies**

- Deploying monitoring policies
  - o Detecting what applications a client runs
  - Detecting startup of services
  - o Configuring a management server for policy monitoring
- Application searching and reporting

### LAB: Monitoring

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#### **Thirteen: Working with Clients**

- Installation packages
  - o Features
  - Settings
- Exporting packages
- Deploying packages
  - o Managed
  - o Un-managed

### LAB: Clients

### Fourteen: Updating Definitions and Content

- Types of content
- Methods of delivering content
- Live update
  - Using a local content distribution server
  - Configuring settings and rules
- Distribution tools

### LAB: Manual content updating

### Fifteen: Communication between clients and management servers

- Management servers
  - o Adding
  - Configuring connection order
  - Communication settings for different locations
- Troubleshooting
  - Testing connectivity with ICMP
  - Using the http protocol to test connectivity
  - Debugging communication problems

### LAB: Communication troubleshooting

#### Sixteen: Logging

- Types
- Viewing
- Filters
- Exporting to syslog

LAB: Logging