

# MWS3-5 - MOC 20744 - SECURING WINDOWS SERVER 2016

Categoria: Windows Server 2016

## INFORMAZIONI SUL CORSO

				
Durata: 5 Giorni	Categoria: Windows Server 2016	Qualifica Istruttore: Microsoft Certified Trainer	Dedicato a: Professionista IT	Produttore: Microsoft

## OBIETTIVI

- Mettere in sicurezza Windows Server.
- Sviluppare applicazioni sicure e un'infrastruttura per il bilanciamento del carico.
- Gestire le baseline della sicurezza.
- Configurare e gestire l'amministrazione just-enough e just-in-time (JIT).
- Gestire la sicurezza dei dati.
- Configurare Windows Firewall e un firewall distribuito software-defined.
- Mettere in sicurezza il traffico di rete.
- Mettere in sicurezza l'infrastruttura di virtualizzazione.
- Gestire il malware e le minacce software.
- Configurare il controllo avanzato della sicurezza.
- Gestire gli aggiornamenti del software.
- Gestire le minacce utilizzando Advanced Threat Analytics (ATA) e Microsoft Operations Management Suite (OMS).

## PREREQUISITI

- Aver completato i seguenti corsi 740, 741, e 742, o avere conoscenze equivalenti.
- Avere una solida comprensione e un'esperienza pratica dei fondamenti di rete inclusi: TCP / IP, User Datagram Protocol (UDP) e Domain Name System (DNS).
- Avere un'esperienza pratica dei Servizi di dominio (AD DS) e dei principi di Active Directory.
- Avere un'esperienza pratica dei fondamenti di virtualizzazione Microsoft Hyper-V.
- Comprendere i principi di sicurezza di Windows Server.

## CONTENUTI

## **Module 1: Breach detection and using the Sysinternals tools**

Overview of breach detection

Using the Sysinternals tools to detect breaches

### **Lab : Basic breach detection and incident response strategies**

Identifying attack types

Using incident-response strategies

Exploring the Sysinternals tools

After completing this course, students will be able to:

Describe breach detection.

Describe how to detect a breach by using the Sysinternals tools.

## **Module 2: Protecting credentials and privileged access**

Understanding user rights

Computer and service accounts

Protecting credentials

Understanding privileged-access workstations and jump servers

Deploying a local administrator-password solution

### **Lab : User rights, security options, and group-managed service accounts**

Configuring security options

Configuring restricted groups

Delegating privileges

Creating and managing group managed service accounts (MSAs)

Configuring the Credential Guard feature

Locating problematic accounts

### **Lab : Configuring and deploying LAPs**

Installing local administrator password solution (LAPs)

Configuring LAPs

Deploying LAPs

After completing this module, students will be able to:

Understand user rights.

Describe computer and service accounts.

Help protect credentials.

Understand privileged-access workstations and jump servers.

Understand how to use a local administrator-password solution.

## **Module 3: Limiting administrator rights with Just Enough Administration**

Understanding JEA

Configuring and deploying JEA

### **Lab : Limiting administrator privileges by using JEA**

Creating a role-capability file

Creating a session-configuration file

Creating a JEA endpoint

Connecting to a JEA endpoint

Deploying JEA by using Desired State Configuration (DSC)

After completing this module, students will be able to:

Understand JEA.

Configure and deploy JEA.

## **Module 4: Privileged Access Management and administrative forests**

Understanding ES&A forests  
Overview of MIM  
Implementing JIT and Privileged Access Management by using MIM

**Lab : Limiting administrator privileges by using Privileged Access Management**

Using a layered approach to security  
Exploring MIM  
Configuring a MIM web portal  
Configuring the Privileged Access feature  
Requesting privileged access  
After completing this module, students will be able to:  
Understand enhanced security administrative environment forests.  
Understand MIM.  
Understand how to implement JIT and Privileged Access Management by using MIM.

**Module 5: Mitigating malware and threats**

Configuring and managing Windows Defender  
Using software restricting policies (SRPs) and AppLocker  
Configuring and using Device Guard  
Using and deploying the Enhanced Mitigation Experience Toolkit

**Lab : Securing applications by using AppLocker, Windows Defender, Device Guard Rules, and the EMET.**

Configuring Windows Defender  
Configuring AppLocker  
Configuring and deploying Device Guard  
Deploying and using EMET  
After completing this module, students will be able to:  
Configure and manage Windows Defender.  
Use Software Restricting Policies and AppLocker.  
Configure and use Device Guard.  
Use and deploy the EMET.

**Module 6: Analysing activity by using advanced auditing and log analytics**

Overview of auditing  
Understanding advanced auditing  
Configuring Windows PowerShell auditing and logging

**Lab : Configuring encryption and advanced auditing**

Configuring auditing of file-system access  
Auditing domain logons  
Managing the configuration of advanced audit policies  
Windows PowerShell logging and auditing  
After completing this module, students will be able to:  
Understanding auditing.  
Understand advanced auditing.  
Audit and log Windows PowerShell.

**Module 7: Analysing activity with Microsoft Advanced Threat Analytics feature and Operations Management Suite**

Overview of Advanced Threat Analytics  
Understanding OMS

**Lab : Advanced Threat Analytics and Operations Management Suite**

Using ATA and OMS

Preparing and deploying ATA

Preparing and deploying OMS

After completing this module, students will be able to:

Understand Advanced Threat Analytics.

Understand OMS.

### **Module 8: Securing your virtualization an infrastructure**

Overview of Guarded Fabric VMs

Understanding shielded and encryption-supported VMs

#### **Lab : Deploying and using Guarded Fabric with administrator-trusted attestation and shielded VMs**

Deploying Guarded Fabric VMs with administrator-trusted attestation

Deploying a shielded VM

After completing this module, students will be able to:

Understand Guarded Fabric VMs.

Understand shielded and encryption-supported VMs.

### **Module 9: Securing application development and server-workload infrastructure**

Using Security Compliance Manager

Introduction to Nano Server

Understanding containers

#### **Lab : Using Security Compliance Manager**

Configuring a security baseline for Windows Server 2016

Deploying a security baseline for Windows Server 2016

#### **Lab : Deploying and Configuring Nano Server and containers**

Deploying, managing, and securing Nano Server

Deploying, managing, and securing Windows Server containers

Deploying, managing, and securing Hyper-V containers

After completing this module, students will be able to:

Understand Security Compliance Manager.

Describe Nano Server.

Understand containers.

### **Module 10: Protecting data with encryption**

Planning and implementing encryption

Planning and implementing BitLocker

#### **Lab : Configuring EFS and BitLocker**

Encrypting and recovering access to encrypted files

Using BitLocker to protect data

After completing this module, students will be able to:

Plan and implement encryption.

Plan and implement BitLocker.

### **Module 11: Limiting access to file and folders**

Introduction to FSRM

Implementing classification management and file-management tasks

Understanding Dynamic Access Control (DAC)

**Lab : Configuring quotas and file screening**

Configuring FSRM quotas

Configuring file screening

**Lab : Implementing DAC**

Preparing DAC

Implementing DAC

After completing this module, students will be able to:

Understand FSRM.

Implement classification management and file-management tasks.

Understand DAC.

**Module 12: Using firewalls to control network traffic flow**

Understanding Windows Firewall

Software-defined distributed firewalls

**Lab : Windows Firewall with Advanced Security**

Creating and testing inbound rules

Creating and testing outbound rules

After completing this module, students will be able to:

Describe Windows Firewall.

Understand software-defined distributed firewalls.

**Module 13: Securing network traffic**

Network-related security threats and connection-security rules

Configuring advanced DNS settings

Examining network traffic with Microsoft Message Analyzer

Securing SMB traffic, and analysing SMB traffic

**Lab : Connection security rules and securing DNS**

Creating and testing connection security rules

Configuring and testing DNSSEC

**Lab : Microsoft Message Analyzer and SMB encryption**

Using Microsoft Message Analyzer

Configuring and verifying SMB encryption on SMB shares

After completing this module, students will be able to:

Understand network-related security threats and connection security rules.

Configure advanced DNS settings.

Examine network traffic with Microsoft Message Analyzer.

Secure SMB traffic, and analyze SMB traffic.

**Module 14: Updating Windows Server**

Overview of WSUS

Deploying updates by using WSUS

**Lab : Implementing update management**

Implementing the WSUS server role

Configuring update settings

Approving and deploying an update by using WSUS

Deploying Windows Defender definition updates by using WSUS

After completing this module, students will be able to:

Understand WSUS.

Deploy updates with WSUS.

## INFO

**Materiale didattico:** Materiale didattico in formato digitale

**Costo materiale didattico:** incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)