MOC 50402 Implementing Forefront Unified Access Gateway 2010

Course Summary

Description

This instructor-led course prepares you to design and deploy remote access solutions using Microsoft Forefront Unified Access Gateway 2010 (UAG). Forefront UAG provides organizations with unparalleled flexibility in providing access to network resources (such as Web sites and internal applications) with granular access control, custom content protection, and endpoint validation. Forefront UAG also integrates with DirectAccess, a new Windows 7 technology that provides seamless remote access to all corporate resources without connecting to a virtual private network. This course is intended for architects, consultants, network administrators, and technical sales professionals who are responsible for selling, designing, and deploying edge access solutions for enterprises.

Objectives
At the end of this course, students will be able to:

- Install and configure Forefront UAG as a standalone server or an array member.
- Publish Microsoft Exchange Server, Microsoft Office SharePoint Server, and Remote Desktop Gateway applications to external users.
- Configure Forefront UAG to authenticate and authorize users, and enforce security policies on clients. Use Forefront UAG as a gateway for DirectAccess clients.
- Understand the design and deployment considerations when building an enterprise access solution using Forefront UAG.

Topics

- Forefront UAG Overview
- Forefront Unified Access Gateway Setup and Upgrade
- Forefront UAG Portal
- Publishing Web Applications
- Remote Desktop Gateway Publishing
- Remote Network Access
- IPv6 and IPv6 Transition Technologies
- DirectAccess
- Endpoint Security Policies and NAP Integration
- Array Management
- Enterprise Deployment and Troubleshooting

Audience

This course is intended for IT security and infrastructure specialists.

Prerequisites

Students should have experience with Windows networking and authentication protocols. Experience with the IPv6 protocol is desirable but not required.

Duration

Three days

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Course Outline

I. Forefront UAG Overview
This module provides an overview of the features and capabilities of Forefront UAG, and the role it plays in enabling usage scenarios that are part of the Microsoft Business Ready Security strategy.

A. Microsoft Business Ready Security Strategy (BRS)
B. Forefront Unified Access Gateway Architecture
C. Licensing and Availability

II. Forefront Unified Access Gateway Setup and Upgrade
This module covers the setup and configuration tasks for Forefront UAG, and describes how to migrate from Microsoft Intelligent Application Gateway 2007 (IAG) to Forefront UAG.

A. Installing Forefront UAG
B. Initial Configuration

III. Forefront UAG Portal
In this module, you'll understand the concept of a trunk in Forefront UAG, and how the product uses trunks to enable remote users to connect to internal applications. You'll see the role of the Forefront UAG portals as front end interfaces for these users, and how Forefront UAG can be customized during deployments.

A. Trunks and Portals
B. Portal Customization
C. Client Detection

IV. Publishing Web Applications
In this module, you will learn how to configure Forefront UAG to enable remote endpoints to have access to internal Web applications. You will see how to enable access to Microsoft Exchange and Microsoft SharePoint, and how to deploy federation using Active Directory Federation Services (AD FS).

A. Web Publishing Overview
B. Publishing Microsoft Exchange
C. Publishing Microsoft SharePoint
D. Deploying Federation with AD FS

V. Remote Desktop Gateway Publishing
In this module, you will see how Forefront Unified Access Gateway (UAG) allows you to provide access to published RemoteApps and Remote Desktops by integrating a Remote Desktop Gateway (RD Gateway) to provide an application-level gateway for Remote Desktop Services (RDS) and applications.

A. Remote Desktop Publishing Overview
B. Deploying RD Gateway Publishing

VI. Remote Network Access
This module explains how you can configure remote access to the corporate network using the legacy Network Connector application or the Secure Sockets Tunneling Protocol (SSTP).

A. Remote Network Access Overview
B. UAG/SSTP Integration Architecture
C. Configuring Remote Network Access

VII. IPv6 and IPv6 Transition Technologies
This module provides an overview of the IPv6 protocol used by Forefront UAG DirectAccess, and the technologies associated with transitioning from IPv4 to IPv6 networking.

A. IPv6 Overview
B. IPv6 Transition Technologies

VIII. DirectAccess
This module gives an overview of DirectAccess, a technology enabled by Forefront UAG that provides seamless network access to Windows 7 clients.

A. DirectAccess Overview
B. DirectAccess Solution Components
C. Planning a DirectAccess Deployment
D. Deploying DirectAccess Using Forefront UAG

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Course Outline (cont'd)

IX. Endpoint Security Policies and NAP Integration

This module presents an overview of the policy evaluation and enforcement technologies for the Forefront UAG endpoints.

A. Endpoint Policies
B. Network Access Protection Integration

X. Array Management

This module explores how Forefront UAG uses arrays to scale out to large deployments-improving the scalability and availability of the solution while reducing management overhead.

A. Forefront UAG Array Management Overview
B. Deploying and Operating Forefront UAG Arrays
C. Network Load Balancing Integration

XI. Enterprise Deployment and Troubleshooting

This module covers the considerations involved in designing, deploying, and troubleshooting an enterprise access solution based on Forefront UAG.

A. Deploying Forefront UAG in Enterprise Environments
B. Supporting and Troubleshooting Forefront UAG

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