Microsoft®
# Premier Educate Program

*Understand Microsoft Single Sign-On solutions to access systems and applications across organization boundaries and in the cloud.*

# Active Directory Federated Services 2.0 Deployment and Troubleshooting Workshop

## Overview

This Active Directory Federated Services (AD FS) four day workshop is designed to help customers address the significant changes to identity and managing access to resources; that have developed thanks to Web Service (WS-*) standards and interoperability. It is difficult to make a suitable choice with so many alternatives. This often results in poor selection and imposes limitation on authentication and authorization for how the applications will be accessed in future. This workshop puts concepts of claims based authentication and authorisation into action, and helps organisations to deploy Active Directory Federation Service (AD FS).

## Key Features and Benefits

This workshop will give attendees the knowledge to understand the requirements and approaches involved in implementing federated authentication, and will enable them to deploy and troubleshoot AD FS.

AD FS is primarily an authentication service on the web for Single Sign-On. The first three days of the workshop will cover core concepts of Identity and Authentication Management for web applications either on-premise or in the cloud. The last day of this workshop will cover SharePoint 2010 integration with Claims-Based Identity.

## Technical Highlights

After attending this workshop, students will be able to:

- Understand Claims-Based Identity and Authentication.
- Plan and Deploy AD FS Server in an Enterprise.
- Configure Claims-Based Application.
- Troubleshoot AD FS issues.

## Target Audience

This workshop is targeted for Architects, Developers and senior IT administrators (beyond level 300). It will help them understand the new technologies such as WS-Trust and WS-Federation protocols and how to use them with AD FS.

To ensure the high-quality knowledge transfer expected by the attendees of this four day workshop, the class size is limited to a maximum of 16 students. The attendees must possess knowledge of the following:

- **Active Directory**
- **XML Document and Schema**
- **IIS7 Administration and Troubleshooting**
- **HTTP Protocol/Troubleshooting**
- **SQL/Active Directory Lightweight Directory Services (AD LDS)**

## Classroom Hardware Requirements

To participate in this workshop, students need to have access to a workstation that meets / exceeds the minimum hardware requirements mentioned below. Contact your TAM if the necessary hardware needs to be provided.

*If you are attending an Open enrollment workshop, the hardware will be provided for you.*

## Minimum and Recommended Hardware Requirements

- Operating System: Windows 2008 R2 with SP1 and Hyper-V Role
- Processor: Pentium IV 2.4 Gigahertz (GHz)
- RAM: 16 Gigabytes (GB) of RAM
- Hard Disk Space: 40-GB hard disk, 7200 RPM

## Syllabus

This workshop runs for four full days. Students should anticipate consistent start and end times for each day. Early departure on any day is not recommended.

**Module 1: Building Blocks for Authentication and Authorization for Web**

This module provides a high-level overview of key concepts behind Identity Management in today's world. It will cover various existing methods for internet and intranet web applications using NTLM, Kerberos and Forms Authentication.

**Module 2: Introduction to Claims-Based Authentication and Claims Terminology**

This module provides an understanding of how Federated Authentication works and an introduction to Security Assertion Mark-up Language (SAML).

**Module 3: AD FS Planning and Deployment in Enterprise**

This module covers the AD FS hardware and software requirements, and provides best practices on how to deploy AD FS in an Enterprise.

**Module 4: Scenario Based Setup**

This module covers the hands-on lab discussed in previous modules including Authentication Assurance, Claims to Windows Token Service (C2WTS) and AD FS Delegation.

**Module 5: AD FS Advanced Concepts**

This module covers the AD FS advance concepts such as Home Realm Discovery (HRD), two-factor Authentication, Claims Transformation and Custom Attribute Store.

**Module 6: AD FS Management, Backup and Disaster Recovery**

This module covers the AD FS management aspects, PowerShell and planning for disaster recovery.

**Module 7: Troubleshooting**

This module covers the basic components involved in AD FS and the relevant toolset to troubleshoot most common problems.

**Module 8: AD FS and SharePoint (SharePoint 2010) – (Last day)**

This module helps you identify the requirements to enable Federated Authentication with SharePoint.

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