



(Established under Galgotias University Uttar Pradesh Act No. 14 of 2011)

SAML BASED AUTHENTICATION

A Project Report of Capstone Project - 2

Submitted by

MAYANK KUMAR RAJPUT

(16SCSE101218 / 1613101384)

in partial fulfillment for the award of the degree of

Bachelor of Technology

IN

Computer Science and Engineering

SCHOOL OF COMPUTING SCIENCE AND ENGINEERING

Under the Supervision of

Dr. DILEEP KUMAR YADAV

Assistant Professor

APRIL / MAY- 2020



**SCHOOL OF COMPUTING AND SCIENCE AND
ENGINEERING**

BONAFIDE CERTIFICATE

Certified that is project report “**SAML BASED AUTHENTICATION**” Is the bonafide work of “**MAYANK KUMAR RAJPUT (1613101384)**” who carried out the project work under my supervision.

SIGNATURE OF HEAD

**Professor & Dean,
School of Computing Science &
Engineering**

SIGNATURE OF SUPERVISOR

**Dr. DILEEP KUMAR YADAV
Assistant Professor
School of Computing Science &
Engineering**

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ABSTRACT

This project provides the ability of Single check in (SSO) with LDAP Authentication. LDAP could be a protocol that works on Directory Servers it is Enterprise Directory or Active Directory. For this we want to feature some roles to the Domain controller. For any user once login try for any application, it depends that application or portal user needs to login or what policies and processes outlined for a similar. As per the method Authentication are via LDAP solely however the processes of Journey is also vary consequently. To access a network's LDAP services, your pc should 1st log in to a server that supports the protocol, a method known as authentication. LDAP lets a network administrator assign totally different levels of access to its several users, keeping the data secure. LDAP could be a protocol that supports directory servers like servers used for Active directory or enterprise directory. Authentication validation of user credentials even be done by integrated data processing via LDAP solely. needed claims additionally provided by integrated data processing from LDAP as per the request. We have taken totally different bindings additionally to done this authentication method with success.

We have taken different bindings also to done this authentication process successfully. Binding are the mechanisms to transfer the messages. There are three types of bindings used :Redirect binding,

Post binding, Artifact binding

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LIST OF ABBREVIATIONS

ACRONYM	EXPANSION
LDAP	Lightweight Directory Access Protocol
IT	Information Technology
ADFS	Active Directory Federation Services
SP	Service Provider
IDP	Identity Provider
ACP	Access control policy
SSO	Single Sign on
ED	Enterprise Directory
IWA	Internal window authentication

INTRODUCTION

I. Overall Description:

The goal of this project is to supply the Authentication to totally different applications via 2

Methods :

1. Internal Window Authentication (IWA)
2. Single sign in (SSO) Internal Window Authentication (IWA) : Authentication Server in Associate in Nursing atmosphere supported Windows users is easy.

1. The user credentials square measure valid once the user logs in to the Windows software on the shopper machine.

2. Later once the user needs to ascertain a session with Server (for example, via a browser on the desktop), then will use the inherent Integrated Windows Authentication (IWA).

3. The identity of the logged-in user is communicated to Server exploitation SAML token.

This answer provides single sign-on capabilities right out of the box. just in case the authentication exchange fails to spot the user, the browser prompts the user for a Windows user account name and word. Single sign in (SSO) : Single sign-on (SSO) may be a session Associate in Nursing user authentication service that allows an user to enter one set of login credentials (such as a reputation and password) and be able to access multiple applications.

II.Objective:

This is use to design the following tasks :

1. User experience: The most apparent benefit is that users can move between services securely and uninterrupted without specifying their credentials each time.

2. Ability for employees to log in just one time with one set of credentials to get access to all corporate apps, websites, and data for which they have permission.
3. Security: The users credentials are provided directly to the central SSO server, not the actual service that the user is trying to access, and therefore the credentials cannot be cached by the service. The central authentication point – the SSO service – limits the possibility of phishing.
4. Resource savings: IT administrators can save their time and resources by utilizing the central web access management service Application and web developers receive a complete authentication and authorization framework that they can use to build secure, user customized services.
5. SSO saves money: Around half of all IT helpdesk calls are for password resets. With only one password to remember, SSO can significantly reduce IT helpdesk costs.
6. Building a centralized database, SSO supports compliance, promotes secure file sharing, and ensures effective access reporting.

III. Background:

The pool for outlining SAML standards and security is OASIS (Organization for the Advancement of structured data standards) they're a non-profit international organization that promotes the event and adoption of open standards for security and internet services. OASIS was supported in 1993 beneath standard generalized markup language (Standard Generalized Markup Language) Open till its name amendment in 1998. Headquarters for OASIS area unit located in North America however there's active member participation internationally in one hundred countries on 5 continents SAML 1.0 became associate OASIS customary toward the top of 2002, with its early formations starting in 2001. The goal behind SAML one.0 was to create a XML framework

to allow for the authentication and authorization from a single sign-on perspective. At the time of this milestone, other firms and consortiums started extending SAML 1.0. whereas these extensions were being shaped, the SAML 1.1 specification was sanctioned as associate OASIS standard within the fall of 2003. The next major revision of SAML is a pair of.0, and it became an official OASIS customary in 2005. SAML 2.0 involves major changes to the SAML specifications. this can be the first revision of the quality that's not backwards compatible, and it provides vital further functionality. SAML 2.0 currently supports W3C XML encryption to satisfy privacy needs [3]. Another advantage that SAML a pair of.0 includes is that the support for

service supplier initiated net single sign-on exchanges. This allows for the service supplier to question the identity provider for authentication in addition, SAML 2.0 adds “Single Logout” practicality. the rest of this text

are going to be discussing implementation of a SAML 2.0 atmosphere. There area unit 3 roles concerned in a very SAML group action –

an declarative party, a relying party, and a topic. The asserting party (identity provider) is that the system in authority that gives the user info. The relying party (service provider) is that the system that trusts the asserting party’s info, and uses the info to

provide associate application to the user. The user and their identity that’s concerned within the group action area unit called the subject. The elements that structure the SAML customary area unit assertions, protocols, bindings and profiles. Each layer

of the quality areoften custom, permitting specific business cases to be self-addressed per company. Since each company’s situations might be distinctive, the implementation of those business cases ought to be ready to be

customized per service and per identity suppliers.

The group action from the declarative party to the relying party is termed a SAML assertion.

The relying party assumes that each one knowledge contained within the assertion from the

asserting party is valid. The structure of the SAML assertion is outlined by the XML schema and contains header info, the topic and statements regarding the subject within the type of attributes and conditions. The assertion can even contain authorization statements defining what the user is allowable to try and do within the net application.

The SAML customary defines request and response protocols accustomed communicate the assertions between the service supplier (relying party) and also the identity provider (asserting party).

SOFTWARE REQUIREMENT SPECIFICATION

HARD WARE SPECIFICATION:

GCP Plateform

Created instance Window Server 2016

HARD DISK DRIVE : 500 GB

RAM : 6 Gb

SOFTWARE SPECIFICATION:

OPERATING SYSTEM : Windows server 2016

ROLES : ADDS, ADFS, DNS, IIS

LITERATURE SURVEY

Active Directory Federation Services provides access management and single check in across a good form of applications as well as workplace 365, cloud based mostly SaaS applications, and applications on the company network. Introducing AD FS two.0". Microsoft TechNet. May 2, 2010. Retrieved Texas Independence Day, 2017

- For the IT organization, it permits you to supply check in and access management to each fashionable and bequest applications, on premises and within the cloud, supported an equivalent set of credentials and policies.
- For the user, it provides seamless check in victimization an equivalent, acquainted account credentials.
- For the developer, it provides a straight forward thanks to certify users whose identities sleep in the structure directory in order that you'll focus your efforts on your application, not authentication or identity.

Active Directory Federation Services (AD FS), a software package element developed by Microsoft, will run on Windows Server in operation systems to supply users with single sign-on access to systems. In AD FS, identity federation is established between 2 organizations by establishing trust between 2 security realms. A federation server on one facet (the Accounts side) authenticates the user through the quality suggests that in Active Directory Domain Services so problems a token containing a series of claims regarding the user, as well as its identity. On the opposite facet, the Resources facet, another federation server validates the token and problems another token for the native servers to just accept the claimed identity. this permits a system to supply controlled access to its resources or services to a user that belongs to a different security realm while not requiring the user to certify on to the system and while not the 2 systems sharing a info of user identities or passwords. Enables organizations to collaborate firmly across Active

Directory domains by victimization identity federation. Reduces the necessity for duplicate accounts and different certificate management overhead by sanctioning federate SSO across organizations, platforms, and applications. Provides for identity delegation in order that approved applications will impersonate their users once they access infrastructure services, even once the initial users don't have native accounts. permits increase authentication in order that websites will simply request smart-card authentication for explicit operations.

EXISTING SYSTEM

Many business owners and IT managers of growing businesses prefer Linux over competitive operating systems. The major factors leading businesses to move to Linux are its low cost, security, reliability, openness, and freedom to avoid single-vendor environments.

In fact, businesses such as Amazon.com and Google rave about operational costs saved and efficiencies found from implementing Linux on their servers. These commercial examples, combined with the experiences of developers and IT managers, have led to widespread installations of Linux servers within small and medium-sized businesses. An IDC 2007 report says that Linux holds 12.7 percent of the overall server market.

Oracle Directory Server provides enterprise-wide directory services, meaning it provides information to a wide variety of applications. Until recently, many applications came bundled with their own proprietary user databases, with information about the users specific to that application. While a proprietary database can be convenient if you use only one application, multiple databases become an administrative burden if the databases manage the same information. Directory Server serves directory data to standards compliant LDAP and DSML applications. Directory Server stores the data in customized, binary tree databases, allowing quick searches even for large data sets only.

Each directory entry has attributes. For entries that concern people, these attributes may reflect names, phone numbers, and email addresses. No need to use any algorithms or applications, It will be like database only from where you can take the data of users that needed. This is only like a database where all the user entries saved at one place, Neither SSO nor real-time authentication was provided. Only one team/person has rights to change password and many different team to handle on task.

Here password is different for all the different applications.

PROPOSED SYSTEM

In this project Single Sign-On services protects thousands of applications from risks associated with password management and enables users to access mobile, cloud, and on-premises programs on any device. By implementing SSO, users need to enter a single username and password for once and then, acquire access to the devices and apps that are based upon policy from enterprise. It gives support to internal (contractors, employees) as well as external (customers, partners) users.

Our Single Sign-On solution strengthens the existing cloud security protocols along with single access to several users for IT monitoring ease. The challenges get significantly reduced in terms of clicks and hence, eliminating time in remembering the account usernames and passwords. An administrator will be able to track real-time activities with the provisioning and de-provisioning of sanctioned applications. We are also providing capability of restricting access to unsanctioned programs for organization users. Our SSO security is compatible with all mobile platforms and it does not need re-configuration in case of operating system updates. LDAP, Lightweight Directory Access Protocol, is an Internet protocol that email and other programs use to look up information from a server.

LDAP is not limited to contact information, or even information about people. LDAP is used to look up encryption certificates, pointers to printers and other services on a network, and provide "single sign-on" where one password for a user is shared between many services. LDAP is appropriate for any kind of directory-like information, where fast lookups and less-frequent updates are the norm.

- Here Server version which is used is 4.0.
- It is not just the stored database but providing, SSO supports compliance, promotes secure file sharing, and ensures effective access reporting.
- AD FS is a native Windows Server Role that allows users to access third-party systems

- and applications inside or outside the corporate firewall with a single login.
- Service provider (SP) and Identity Provider (IDP) plays important role to provide authentication. A trust should be maintained in between SP and IDP and that happened via Certificate.
- Certificates are used to authenticate an individual's identity.
- Data transferred in the form of Metadata. Metadata is a xml file which contains the information required by the resource parties (IDP and SP).
- Enables end users to achieve one-point access to all business programs
- All cloud applications will be accessed through desktops, smartphones, etc.
- Consolidate with custom on-premises applications through custom protocol / development
- Easy provisioning and deprovisioning of cloud applications
- Add or remove existing cloud programs without hard efforts
- Manage several users with an individual account from 1 console

Helps in increasing productivity by keeping the data safe and secure

IMPLIMENTATION AND ARCHITECTURE

This architecture shows the single sign on (SSO) mechanism for all applications. There will a centralized access directory where all the data will be saved. That directory will be enterprise directory or Active directory. The users of Application (Salesforce) will be integrated with the directory and then whenever user login in any application just one time need to enter password and that too is correct or not will be validated via LDAP, and session created. For the next time when user login in that application automatically get logged-in, no need to enter ID and password again.

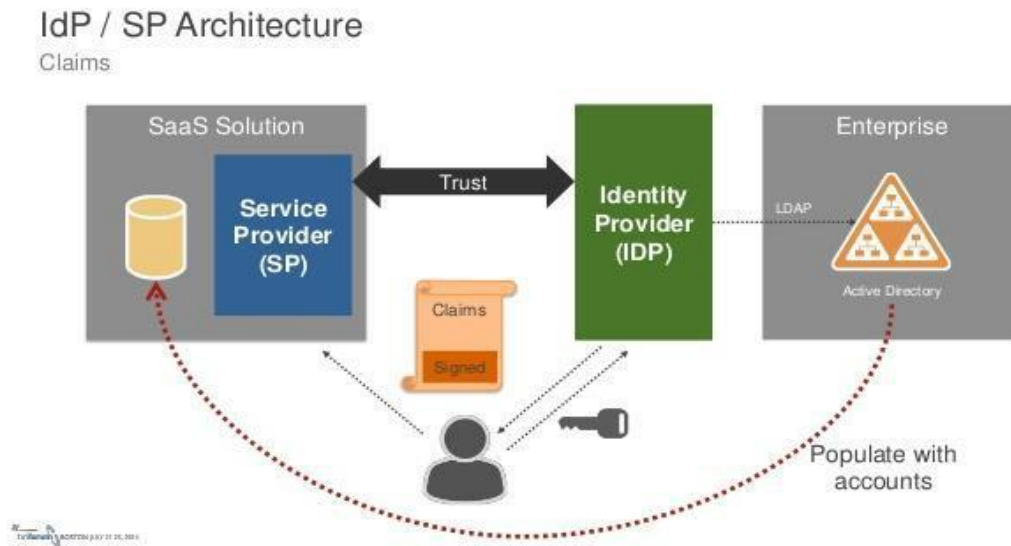


Figure1.1

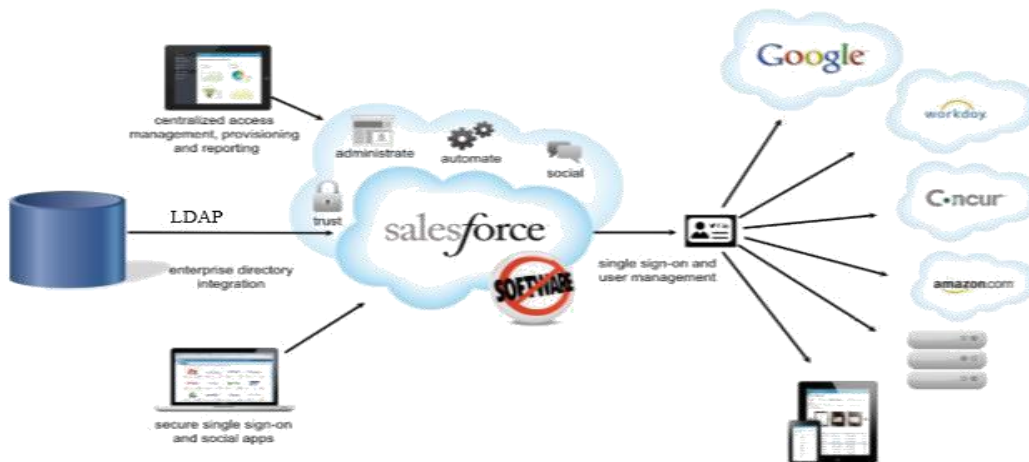


Figure 2.2

When the session is SP-initiated then process will be as follows:

1. User will attempt to login in any application on a browser.
2. Then service provider will check if previous login session is saved if yes then user will be directly accessible else send authentication request to identity provider.
3. Here also any Identity provider checked for the saved previous session else redirect to login page of that organization.
4. There user put credentials to login and those credentials will be authenticating via LDAP.
5. Then a SAML token will be generated that token IDP will be send to SP.
6. Then whatever the claims required send to application for authentication and finally permission granted or we can say user successfully logged in.

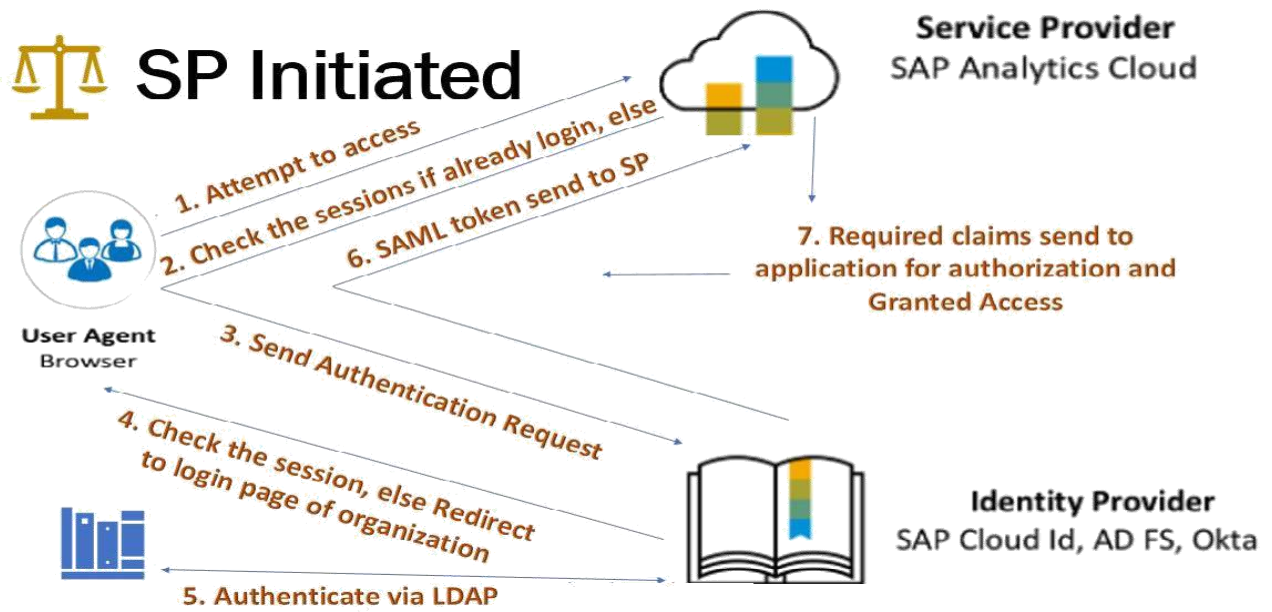


Figure 3.3

When the session is IDP-initiated then process will be as follows:

1. Here user attempt to login to any portal or an application.
2. Then Identity provider will check for the session already login by another application if yes then user will be directly accessible else redirect to login page of that organization.
3. Here when user put credentials for login authenticated via Active directory (AD).
4. Then a SAML token will be generated that Identity provider sends to the Service provider.
5. Then service provider sends required claims to application for authorization and user will be successfully logged in.

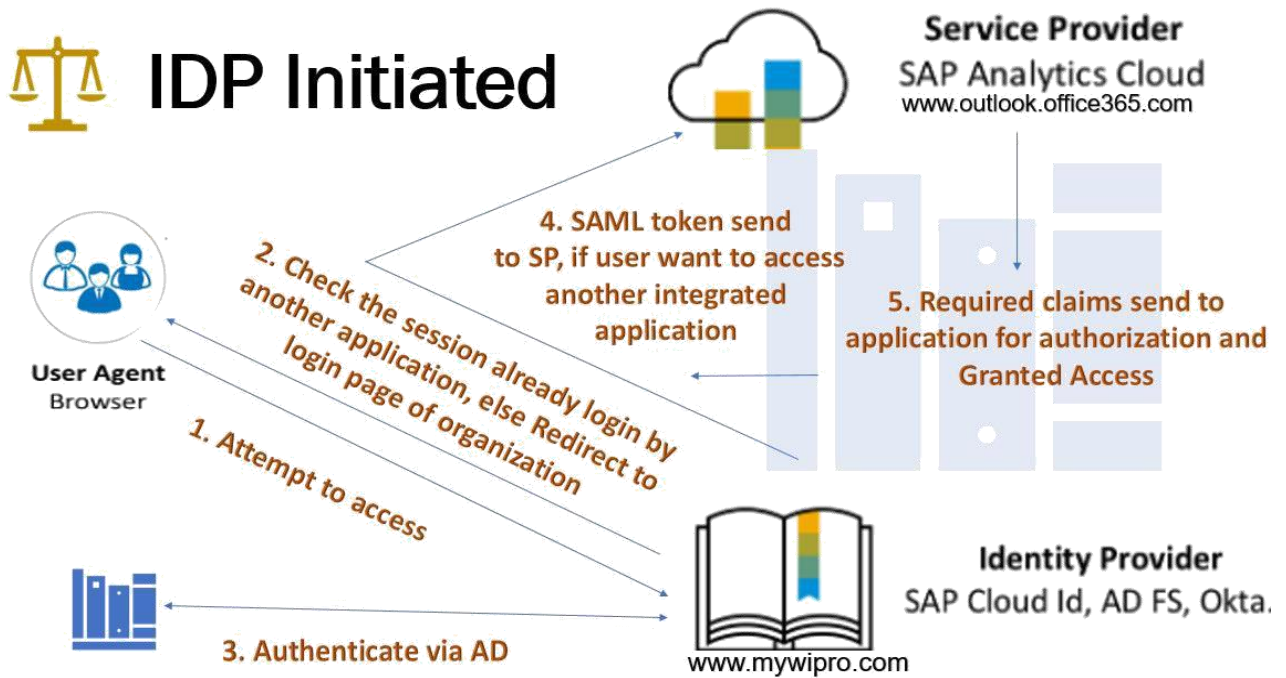


Figure 4.4

Sequential Diagram :

This structure is showing the authentication process. Service Provider and Identity provider plays very important role for communication. User will be request first then Service provider redirect to Identity provider, then from Identity provider SSO service requested. User identified and Identity provider redirect back to Service provider with SAML assertion. User request a=Assertion Consumer Service (ACS). And finally service provider respond to the requested user. Authentication request contains some of the attributes, which are send by the SP to IDP.

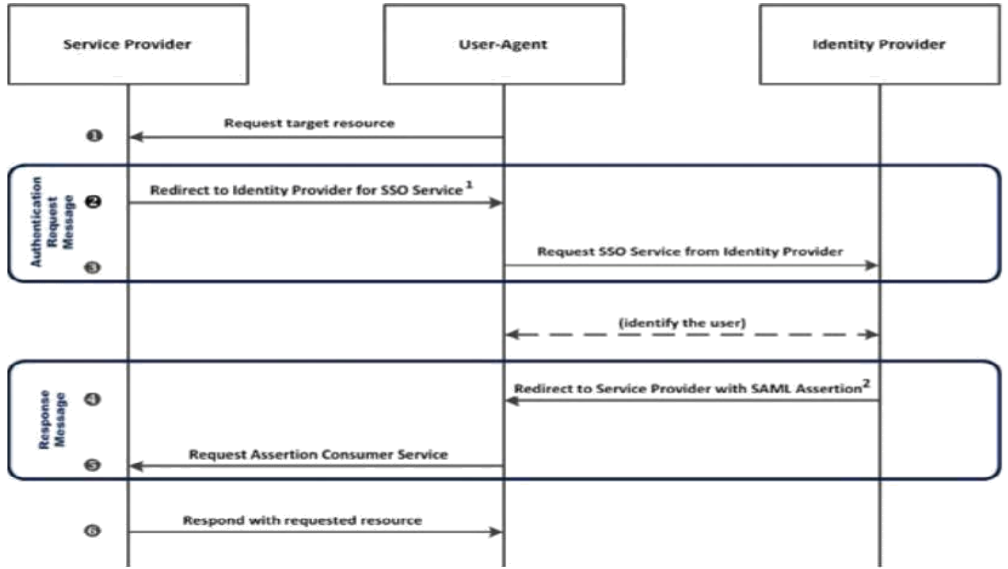
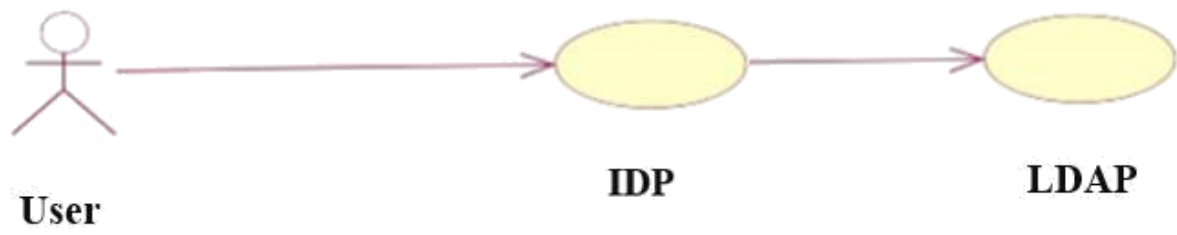


Figure 5.5

Usecase Diagram :



User Authentication Request



Authentication via LDAP

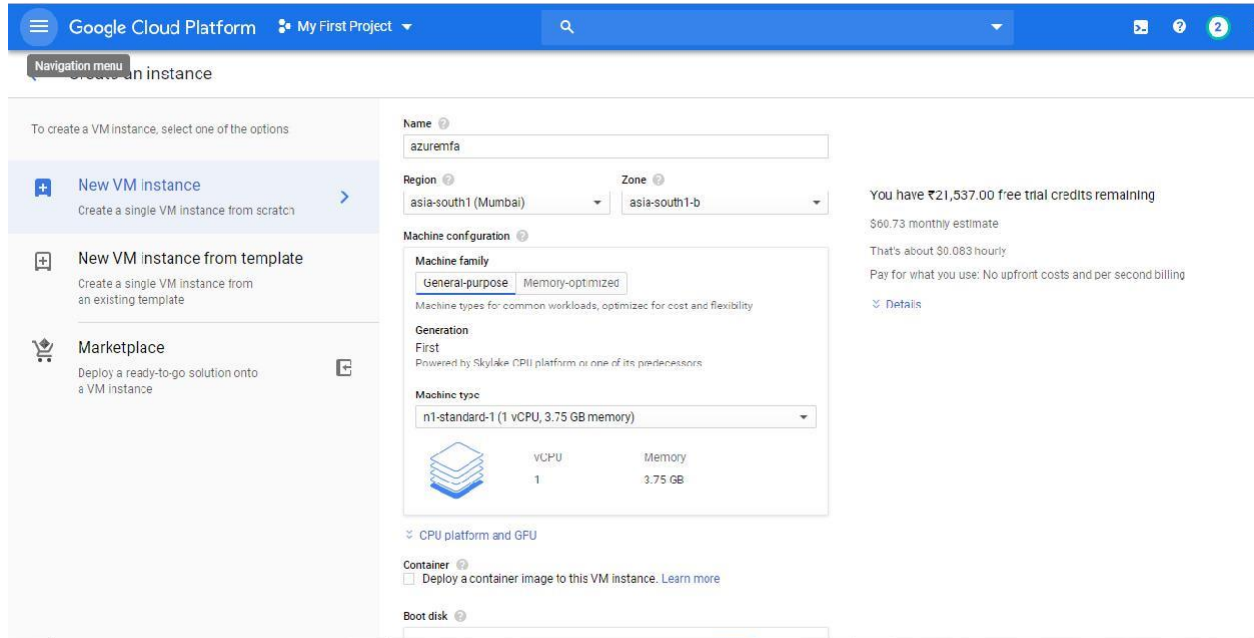


Figure 6.6

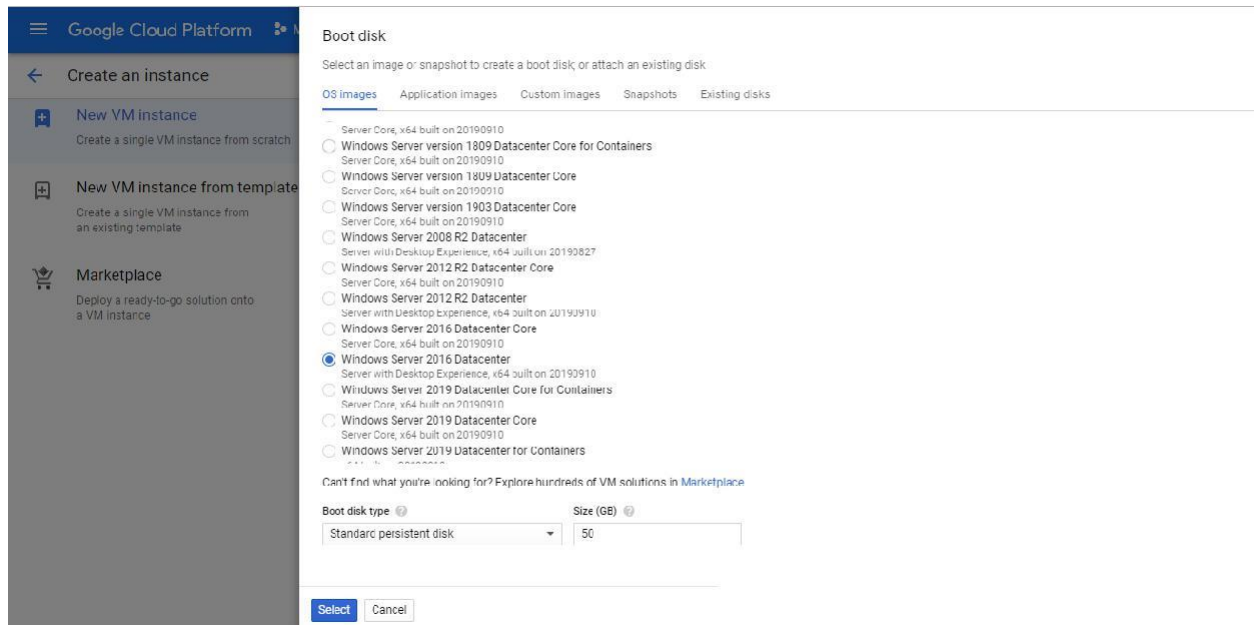
INSTALLATION AND CONFIGURATION

INSTALLATION:

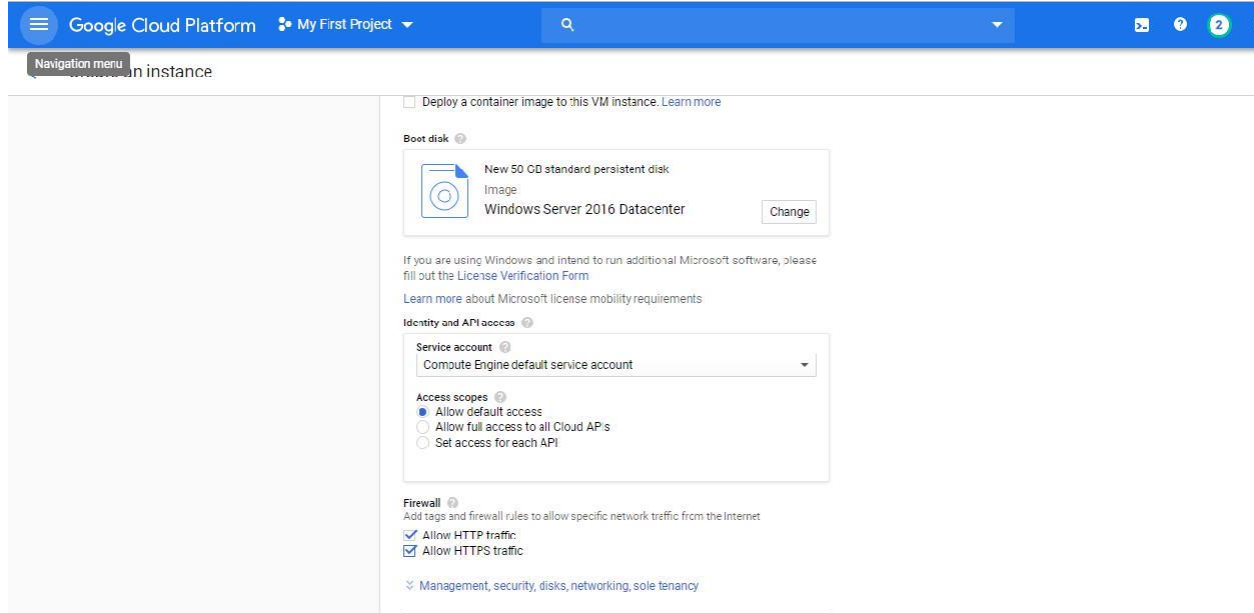
1. Deployment using GCP platform



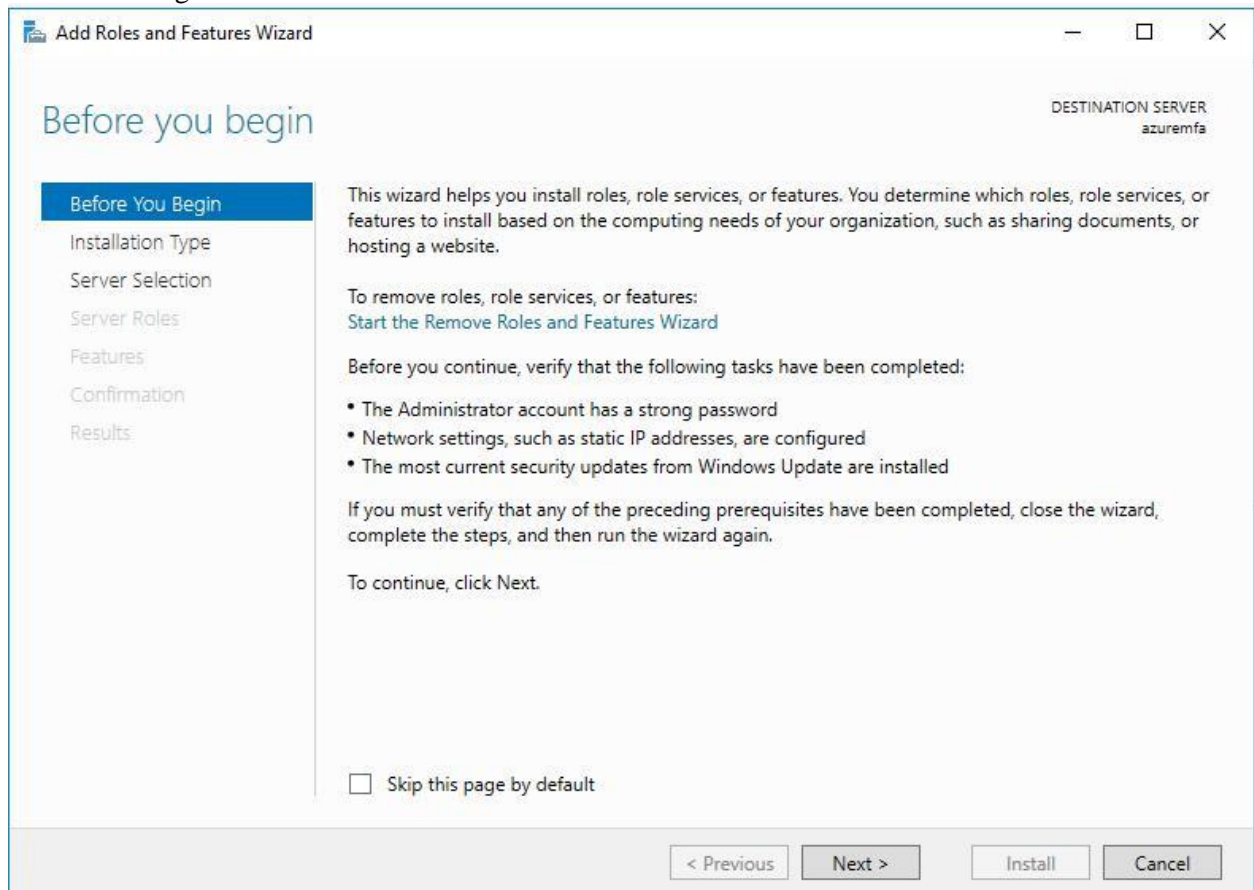
2. Selecting Windows Server 2016 with Desktop server experience as Boot Disk



3. Allowing HTTP and HTTPS traffic in the VM Instance.



4. Adding Roles in the server



Add Roles and Features Wizard

DESTINATION SERVER
azuremf

Select installation type

- Before You Begin
- Installation Type**
- Server Selection
- Server Roles
- Features
- Confirmation
- Results

Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).

- Role-based or feature-based installation**
Configure a single server by adding roles, role services, and features.
- Remote Desktop Services installation**
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.

< Previous Next > Install Cancel

Add Roles and Features Wizard

DESTINATION SERVER
azuremf


Active Directory Federation Services (AD FS)

- Before You Begin
- Installation Type
- Server Selection
- Server Roles
- Features
- AD DS
- AD FS**
- DNS Server
- Web Server Role (IIS)
 - Role Services
- Confirmation
- Results

Active Directory Federation Services (AD FS) provides Web single-sign-on (SSO) capabilities to authenticate a user to multiple Web applications using a single user account. AD FS helps organizations bypass the need for secondary accounts by allowing you to project a user's digital identity and access rights to trusted partners. In this federated environment, each organization continues to manage its own identities.

Things to note:

- This computer must be joined to a domain before you can successfully install the Federation Service.
- The Web Application Proxy role service in the Remote Access server role functions as the federation service proxy and cannot be installed on the same computer as the federation service.

 Azure Active Directory, a separate online service, can provide simplified identity and access management, security reporting, single sign-on to cloud and on-premises web apps.

[Learn more about Azure Active Directory](#)
[Configure Office 365 with Azure Active Directory Connect](#)

< Previous Next > Install Cancel

Add Roles and Features Wizard

DESTINATION SERVER
azuremf

DNS Server

Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
AD FS
DNS Server
Web Server Role (IIS)
 Role Services
Confirmation
Results

Domain Name System (DNS) provides a standard method for associating names with numeric Internet addresses. This makes it possible for users to refer to network computers by using easy-to-remember names instead of a long series of numbers. In addition, DNS provides a hierarchical namespace, ensuring that each host name will be unique across a local or wide-area network. Windows DNS services can be integrated with Dynamic Host Configuration Protocol (DHCP) services on Windows, eliminating the need to add DNS records as computers are added to the network.

Things to note:

- DNS server integration with Active Directory Domain Services automatically replicates DNS data along with other Directory Service data, making it easier to manage DNS.
- Active Directory Domain Services requires a DNS server to be installed on the network. If you are installing a domain controller, you can also install the DNS Server role using Active Directory Domain Services Installation Wizard by selecting the Active Directory Domain Services role.

< Previous Next > Install Cancel

Add Roles and Features Wizard

DESTINATION SERVER
azuremf

Web Server Role (IIS)

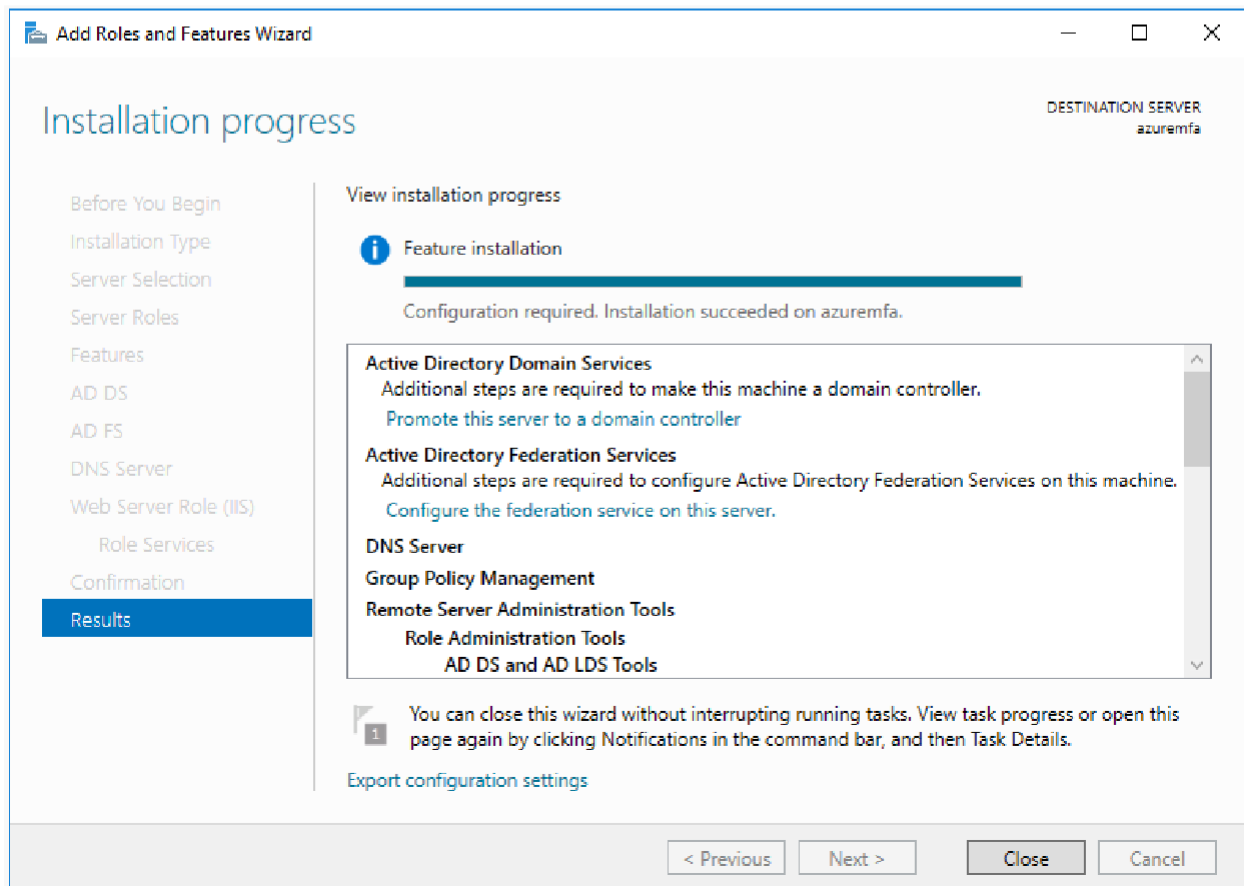
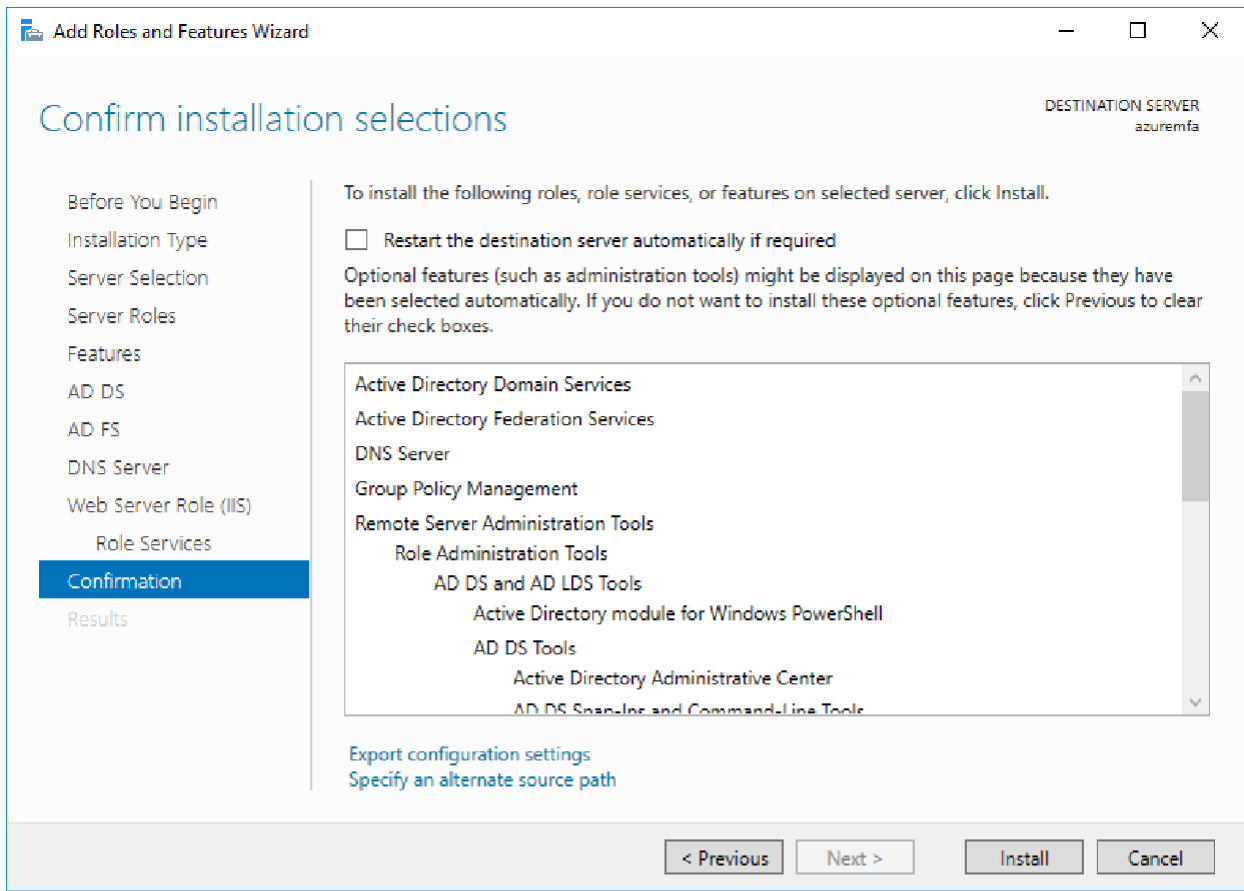
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
AD FS
DNS Server
Web Server Role (IIS)
 Role Services
Confirmation
Results

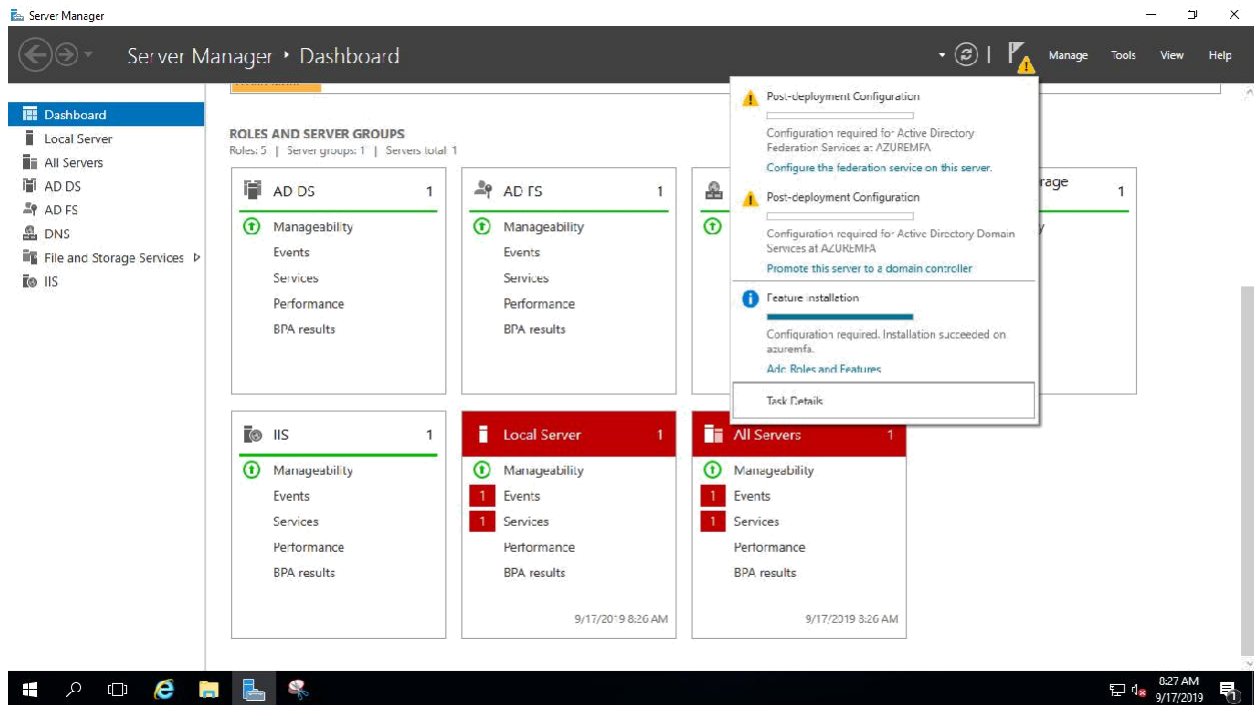
Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 10.0 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 10.0, ASP.NET, and Windows Communication Foundation.

- The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.

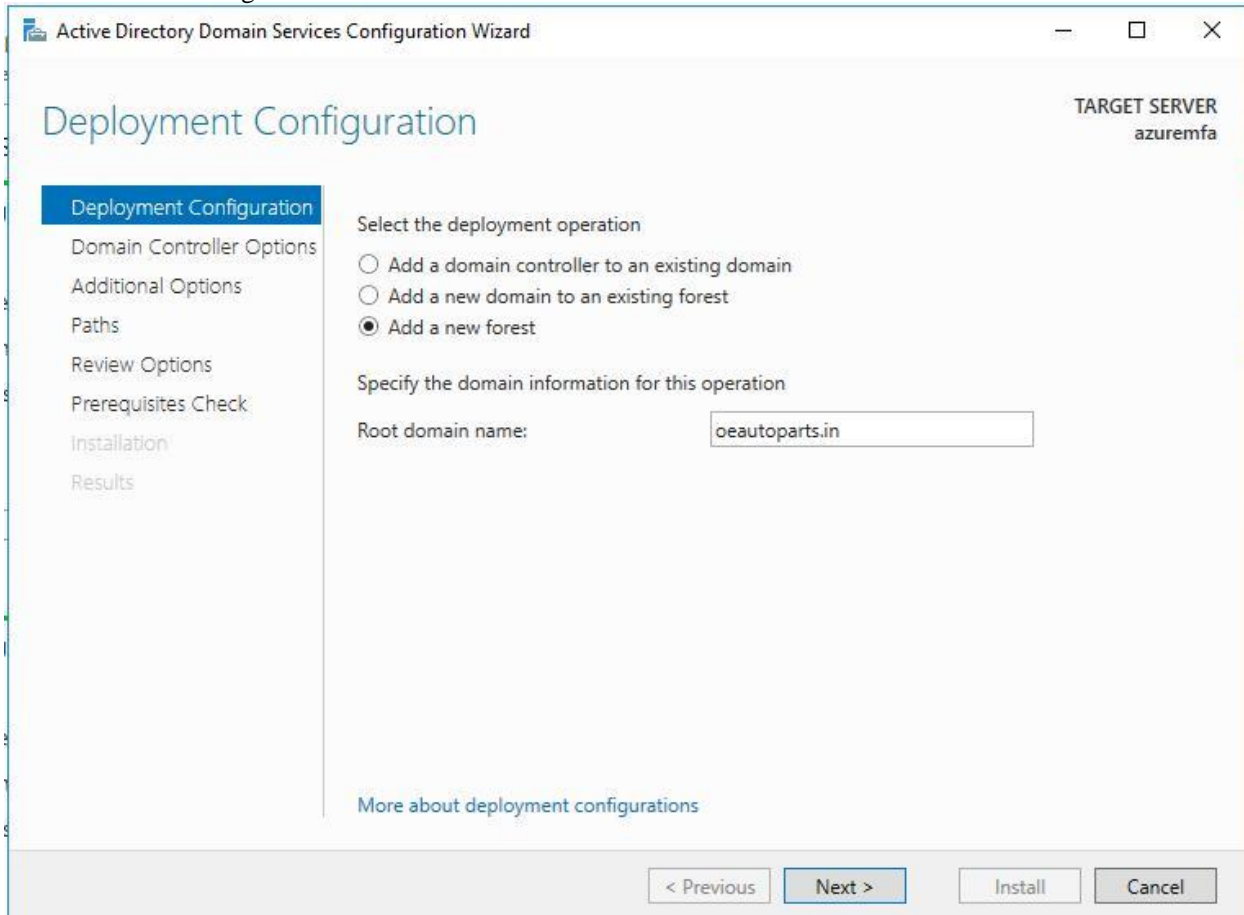
[More information about Web Server IIS](#)

< Previous Next > Install Cancel





5. LDAP Configuration



Active Directory Domain Services Configuration Wizard

TARGET SERVER
azuremf

Domain Controller Options

- Deployment Configuration
- Domain Controller Options**
- DNS Options
- Additional Options
- Paths
- Review Options
- Prerequisites Check
- Installation
- Results

Select functional level of the new forest and root domain

Forest functional level: Windows Server 2016

Domain functional level: Windows Server 2016

Specify domain controller capabilities

- Domain Name System (DNS) server
- Global Catalog (GC)
- Read only domain controller (RODC)

Type the Directory Services Restore Mode (DSRM) password

Password: [REDACTED]

Confirm password: [REDACTED]

[More about domain controller options](#)

< Previous Next > Install Cancel

Active Directory Domain Services Configuration Wizard

TARGET SERVER
azuremf

DNS Options

- Deployment Configuration
- Domain Controller Options
- DNS Options**
- Additional Options
- Paths
- Review Options
- Prerequisites Check
- Installation
- Results

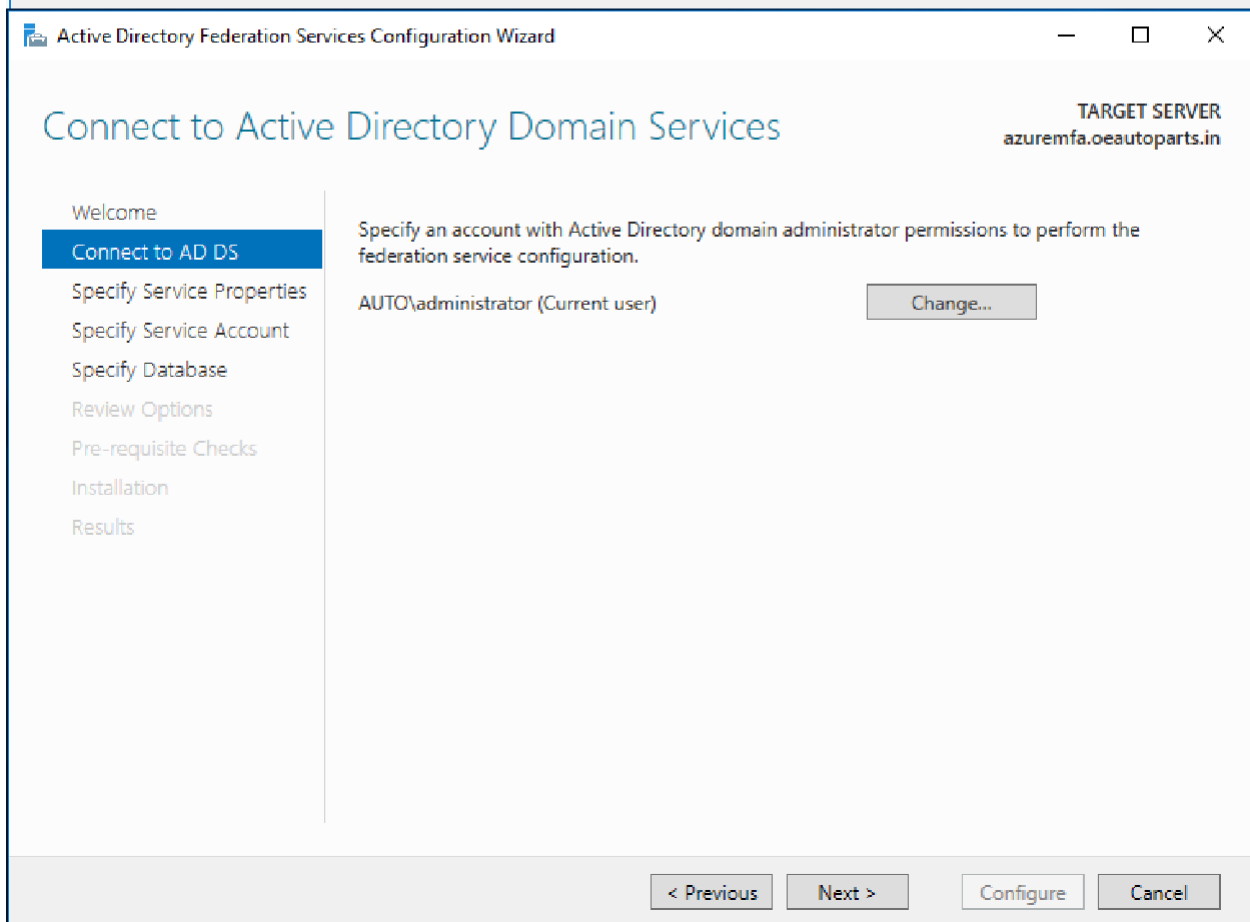
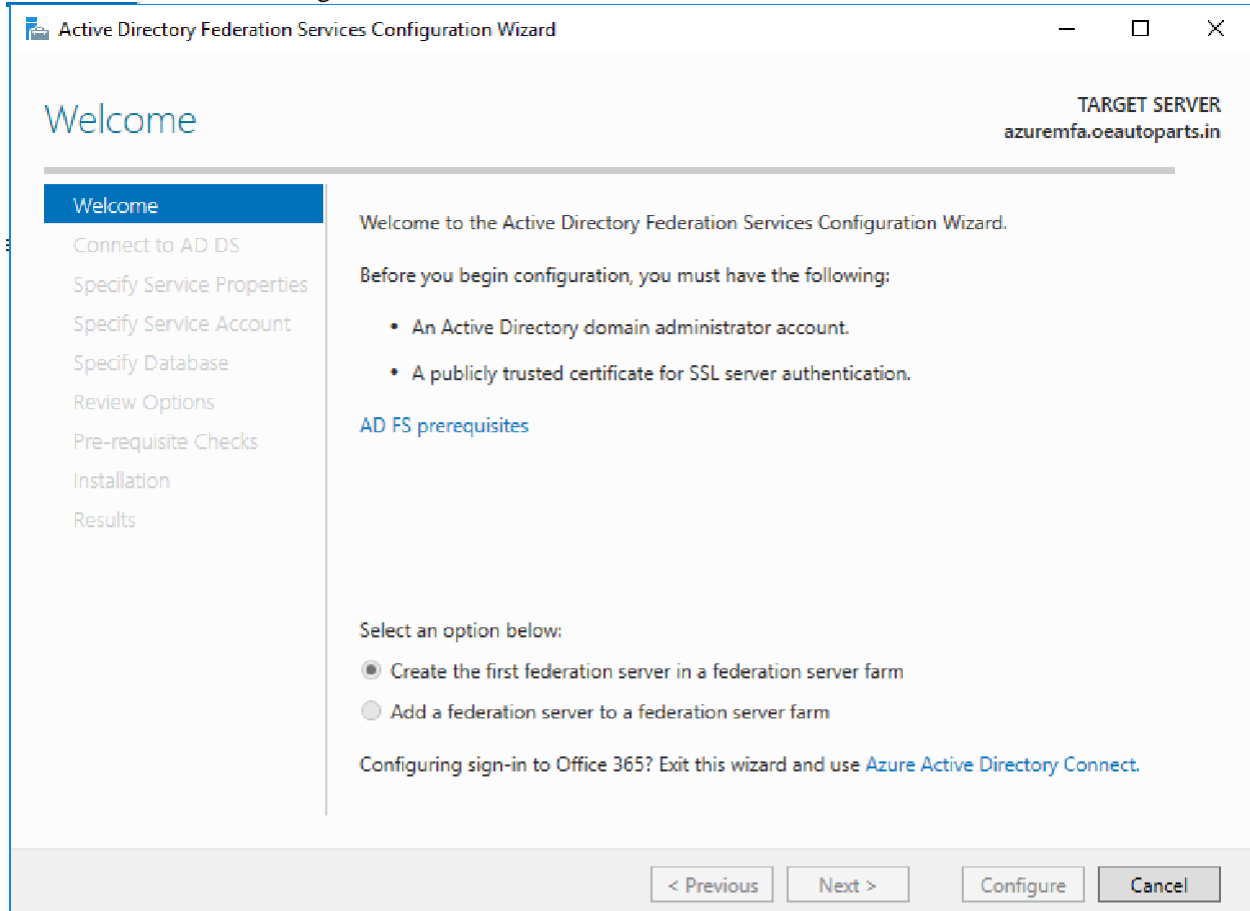
Specify DNS delegation options

- Create DNS delegation

[More about DNS delegation](#)

< Previous Next > Install Cancel

6. ADFS server Configuration



Active Directory Federation Services Configuration Wizard

TARGET SERVER
azuremf.oeautoparts.in

Specify Service Properties

Welcome
Connect to AD DS
Specify Service Properties
Specify Service Account
Specify Database
Review Options
Pre-requisite Checks
Installation
Results

SSL Certificate: sso.oeautoparts.in Import...

View

Federation Service Name: sso.oeautoparts.in
Example: fs.contoso.com

Federation Service Display Name: SAML Based Authentication
Users will see the display name at sign in.
Example: Contoso Corporation

< Previous Next > Configure Cancel

Active Directory Federation Services Configuration Wizard

TARGET SERVER
azuremf.oeautoparts.in

Specify Service Account

Welcome
Connect to AD DS
Specify Service Properties
Specify Service Account
Specify Database
Review Options
Pre-requisite Checks
Installation
Results

Specify a domain user account or group Managed Service Account.

Create a Group Managed Service Account

Account Name: AUTO\

Use an existing domain user account or group Managed Service Account

Account Name: AUTO\administrator Clear Select...

Account Password: ●●●●●●●●

< Previous Next > Configure Cancel

Active Directory Federation Services Configuration Wizard

TARGET SERVER
azuremfa.oeautoparts.in

Specify Configuration Database

- Welcome
- Connect to AD DS
- Specify Service Properties
- Specify Service Account
- Specify Database**
- Review Options
- Pre-requisite Checks
- Installation
- Results

Specify a database to store the Active Directory Federation Service configuration data.

Create a database on this server using Windows Internal Database.

Specify the location of a SQL Server database.

Database Host Name:

Database Instance:

To use the default instance, leave this field blank.

< Previous Next > Configure Cancel

Active Directory Federation Services Configuration Wizard

TARGET SERVER
azuremfa.oeautoparts.in

Review Options

- Welcome
- Connect to AD DS
- Specify Service Properties
- Specify Service Account
- Specify Database
- Review Options**
- Pre-requisite Checks
- Installation
- Results

Review your selections:

This server will be configured as the primary server in a new AD FS farm 'sso.oeautoparts.in'.

AD FS configuration will be stored in Windows Internal Database.

Windows Internal Database feature will be installed on this server if it is not already installed.

Federation service will be configured to run as AUTO\administrator.

These settings can be exported to a Windows PowerShell script to automate additional installations

View script

< Previous Next > Configure Cancel

Active Directory Federation Services Configuration Wizard

TARGET SERVER
azuremfa.oeautoparts.in

Pre-requisite Checks

✔ All prerequisite checks passed successfully. Click 'Configure' to begin installation. [Show more](#) ✕

- Welcome
- Connect to AD DS
- Specify Service Properties
- Specify Service Account
- Specify Database
- Review Options
- Pre-requisite Checks**
- Installation
- Results

Prerequisites must be validated before Active Directory Federation Services is configured on this computer.

[Rerun prerequisites check](#)

View results

- Prerequisites Check Completed
- ✔ All prerequisite checks passed successfully. Click 'Configure' to begin installation.

< Previous Next > Configure Cancel

Active Directory Federation Services Configuration Wizard

TARGET SERVER
azuremfa.oeautoparts.in

Results

✔ This server was successfully configured [Show more](#) ✕

- Welcome
- Connect to AD DS
- Specify Service Properties
- Specify Service Account
- Specify Database
- Review Options
- Pre-requisite Checks
- Installation
- Results**

View detailed operation results

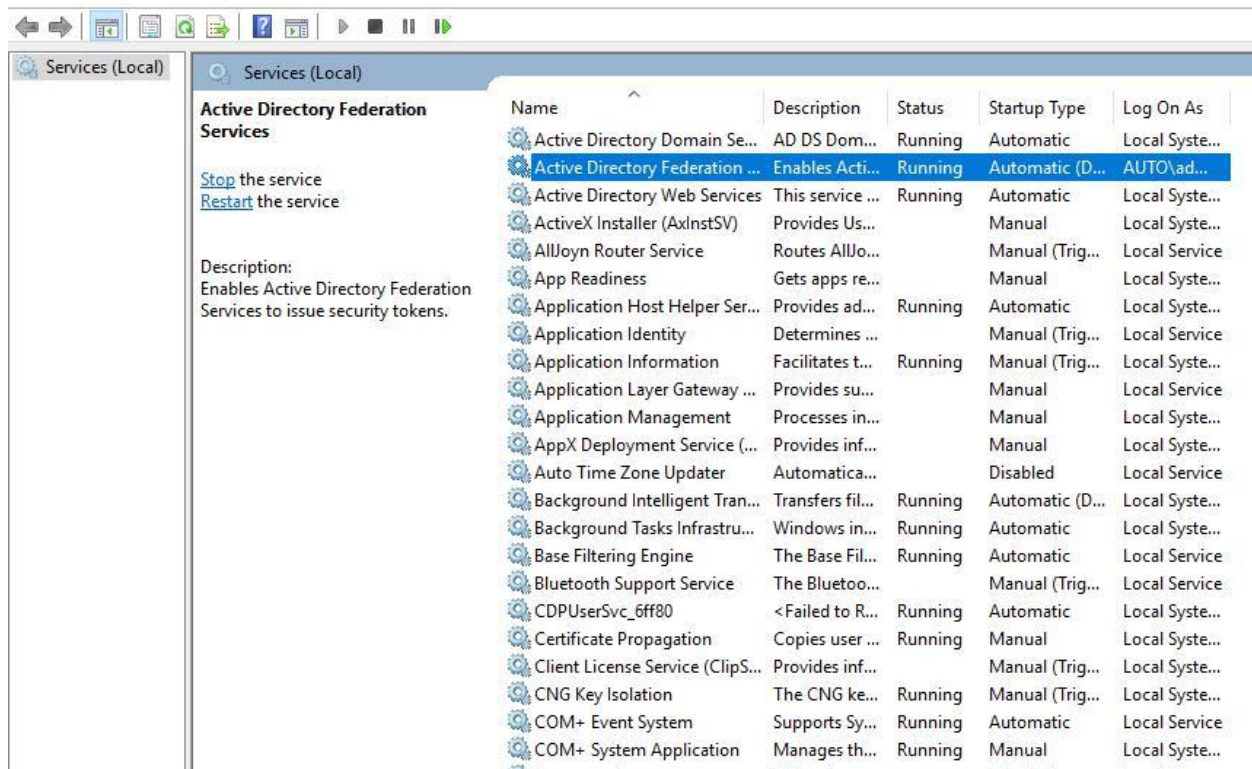
- ⚠ A machine restart is required to complete ADFS service configuration. For more information, see: <http://go.microsoft.com/fwlink/?LinkId=798725>
- ⚠ The SSL certificate subject alternative names do not support host name 'certauth.sso.oeautoparts.in'. Configuring certificate authentication binding on port '49443' and hostname 'sso.oeautoparts.in'.
- ⚠ The SSL certificate does not contain all UPN suffix values that exist in the enterprise. Users with UPN suffix values not represented in the certificate will not be able to Workplace-Join their devices. For more information, see <http://go.microsoft.com/fwlink/?LinkId=311954>.

[Next steps required for completing your federation service deployment](#)

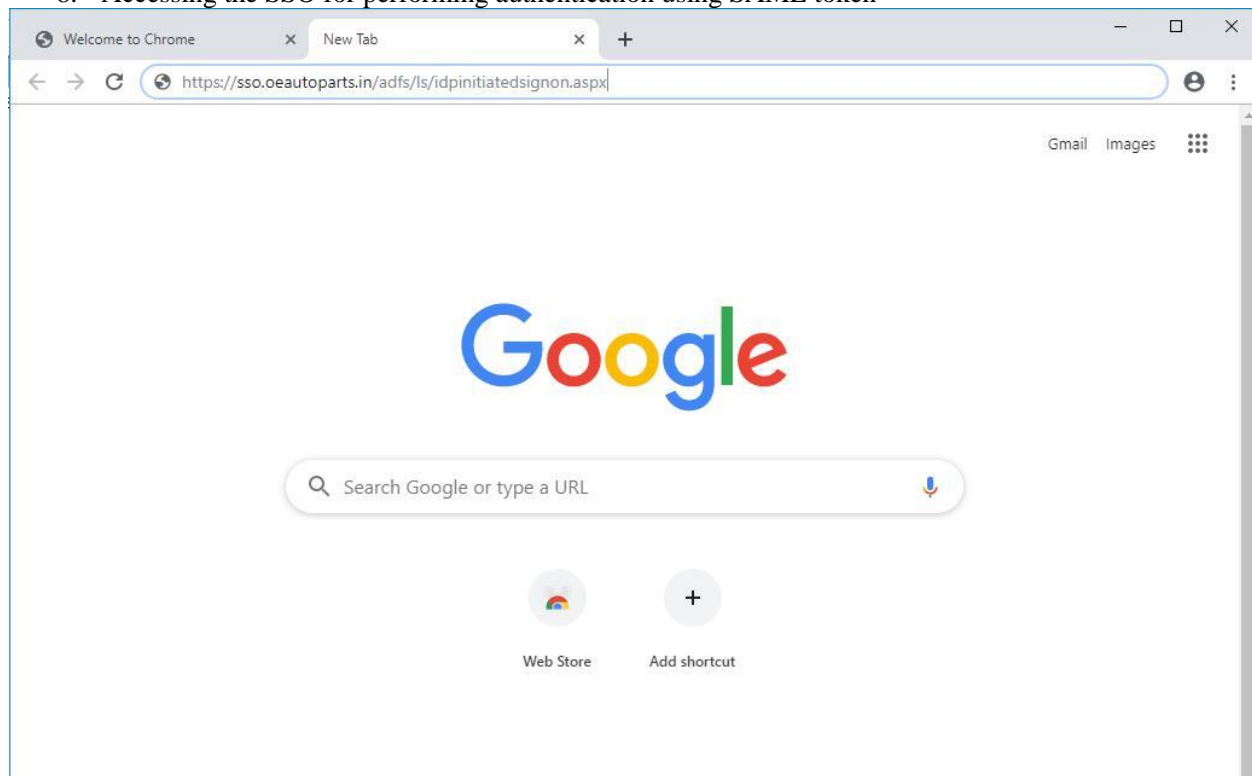
Need to monitor AD FS service? Use [Azure Active Directory Connect Health](#).

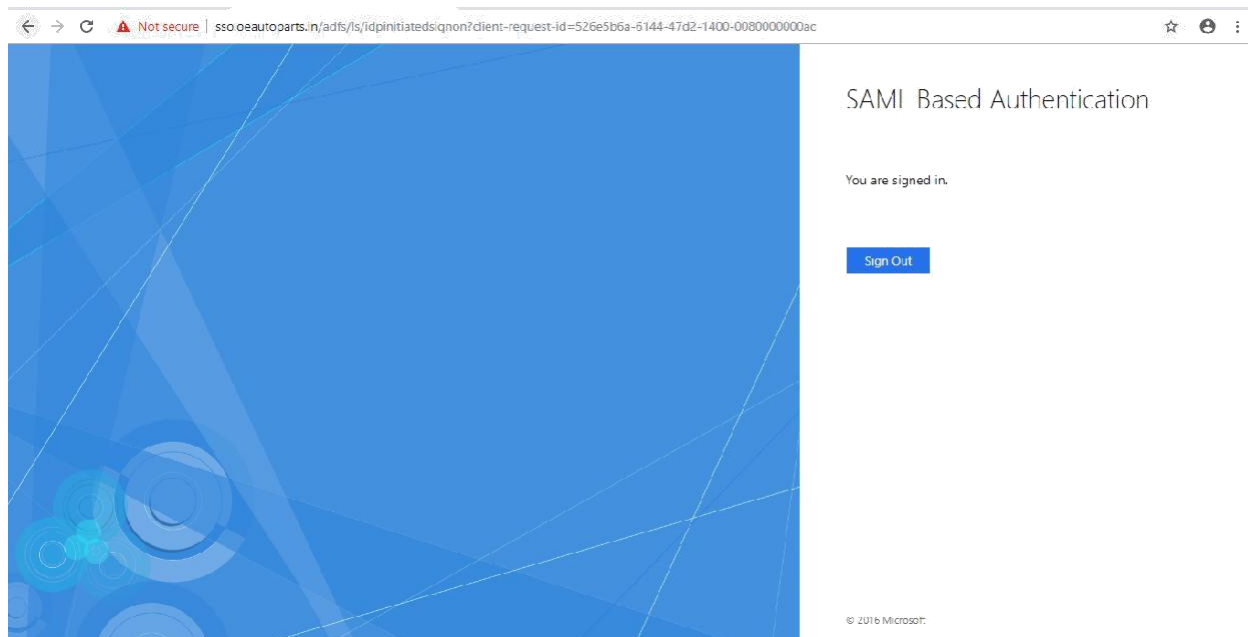
< Previous Next > Close Cancel

7. Checking ADFS and ADDS Service status

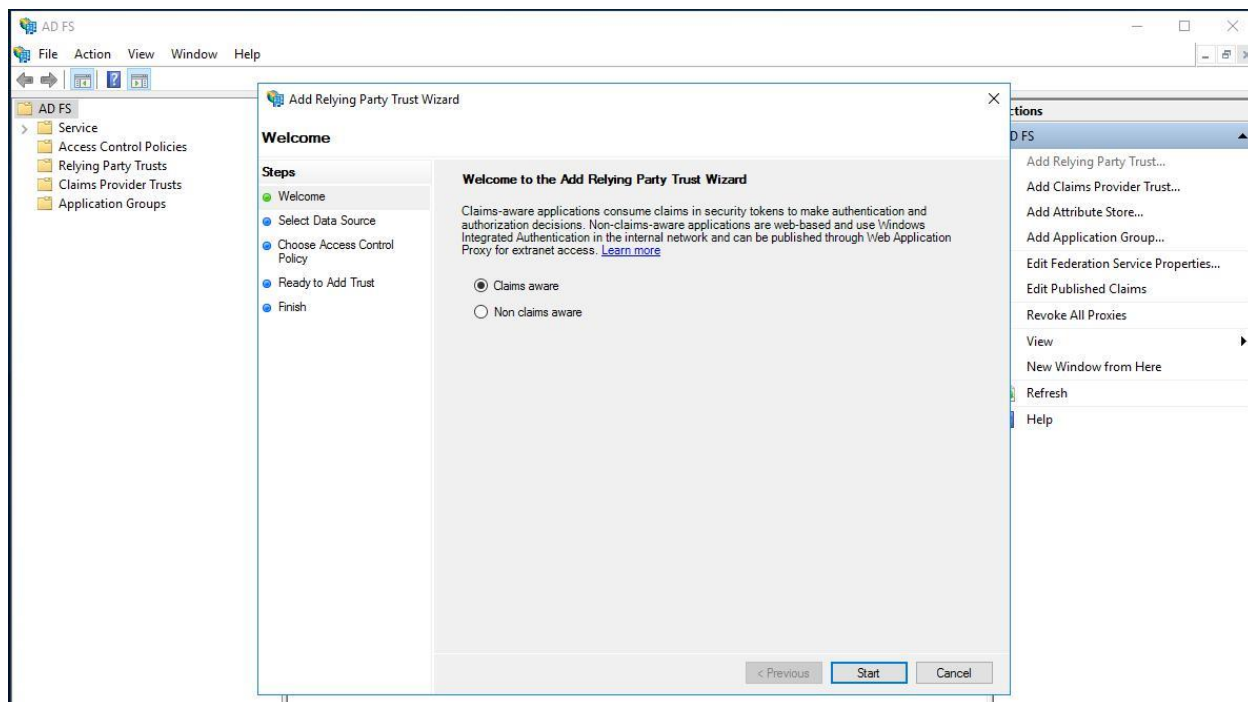


8. Accessing the SSO for performing authentication using SAML token





9. Application Integration with AD FS Management console



Add Relying Party Trust Wizard

Select Data Source

Steps

- Welcome
- Select Data Source
- Choose Access Control Policy
- Ready to Add Trust
- Finish

Select an option that this wizard will use to obtain data about this relying party:

Import data about the relying party published online or on a local network

Use this option to import the necessary data and certificates from a relying party organization that publishes its federation metadata online or on a local network.

Federation metadata address (host name or URL):

Example: fs.contoso.com or https://www.contoso.com/app

Import data about the relying party from a file

Use this option to import the necessary data and certificates from a relying party organization that has exported its federation metadata to a file. Ensure that this file is from a trusted source. This wizard will not validate the source of the file.

Federation metadata file location:

Enter data about the relying party manually

Use this option to manually input the necessary data about this relying party organization.

< Previous Next > Cancel

Add Relying Party Trust Wizard

Specify Display Name

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Choose Access Control Policy
- Ready to Add Trust
- Finish

Enter the display name and any optional notes for this relying party.

Display name:

Notes:

< Previous Next > Cancel

Choose Access Control Policy

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Choose Access Control Policy**
- Ready to Add Trust
- Finish

Choose an access control policy:

Name	Description
Permit everyone	Grant access to everyone.
Permit everyone and require MFA	Grant access to everyone and require MFA.
Permit everyone and require MFA for specific group	Grant access to everyone and require MFA for a specific group.
Permit everyone and require MFA from extranet access	Grant access to the intranet users and require MFA from extranet access.
Permit everyone and require MFA from unauthenticated devices	Grant access to everyone and require MFA from unauthenticated devices.
Permit everyone and require MFA, allow automatic device registration	Grant access to everyone and require MFA, allow automatic device registration.
Permit everyone for intranet access	Grant access to the intranet users.
Permit specific group	Grant access to users of one or more groups.

Policy


Permit everyone

I do not want to configure access control policies at this time. No user will be permitted access for this application.

< Previous

Next >

Cancel

 Add Relying Party Trust Wizard X

Ready to Add Trust

Steps

- Welcome
- Select Data Source
- Specify Display Name
- Choose Access Control Policy
- Ready to Add Trust
- Finish

The relying party trust has been configured. Review the following settings, and then click Next to add the relying party trust to the AD FS configuration database.

Monitoring Identifiers Encryption Signature Accepted Claims Organization Endpoints Note

Specify the monitoring settings for this relying party trust.

Relying party's federation metadata URL:

Monitor relying party

Automatically update relying party

This relying party's federation metadata data was last checked on:
< never >

This relying party was last updated from federation metadata on:
< never >

Edit Claim Issuance Policy for Salesforce



Issuance Transform Rules

The following transform rules specify the claims that will be sent to the relying party.

Order	Rule Name	Issued Claims
-------	-----------	---------------



Add Rule...

Edit Rule...

Remove Rule...

OK

Cancel

Apply



Select Rule Template

Steps

- Choose Rule Type
- Configure Claim Rule

Select the template for the claim rule that you want to create from the following list. The description provides details about each claim rule template.

Claim rule template:

Send LDAP Attributes as Claims

Claim rule template description:

Using the Send LDAP Attribute as Claims rule template you can select attributes from an LDAP attribute store such as Active Directory to send as claims to the relying party. Multiple attributes may be sent as multiple claims from a single rule using this rule type. For example, you can use this rule template to create a rule that will extract attribute values for authenticated users from the displayName and telephoneNumber Active Directory attributes and then send those values as two different outgoing claims. This rule may also be used to send all of the user's group memberships. If you want to only send individual group memberships, use the Send Group Membership as a Claim rule template.

< Previous

Next >

Cancel

Configure Rule

Steps

- Choose Rule Type
- Configure Claim Rule

You can configure this rule to send the values of LDAP attributes as claims. Select an attribute store from which to extract LDAP attributes. Specify how the attributes will map to the outgoing claim types that will be issued from the rule.

Claim rule name:

Salesforce claim rule

Rule template: Send LDAP Attributes as Claims

Attribute store:

Active Directory

Mapping of LDAP attributes to outgoing claim types:

	LDAP Attribute (Select or type to add more)	Outgoing Claim Type (Select or type to add more)
	E-Mail-Addresses	Name ID
	Given-Name	First Name
▶	Surname	Last Name
*		

< Previous

Finish

Cancel

Edit Claim Issuance Policy for Salesforce

Issuance Transform Rules

The following transform rules specify the claims that will be sent to the relying party.

Order	Rule Name	Issued Claims
1	Salesforce claim rule	Name ID,First Name,Last ...

↑
↓

Add Rule... Edit Rule... Remove Rule...

OK Cancel Apply

← → ↻ Not secure | sso0eautoparts.in/adfs/ls/idpinitiatedsignon?client-request-id=526e5b6a-6144-47d2-1400-0080000000ac

SAML Based Authentication

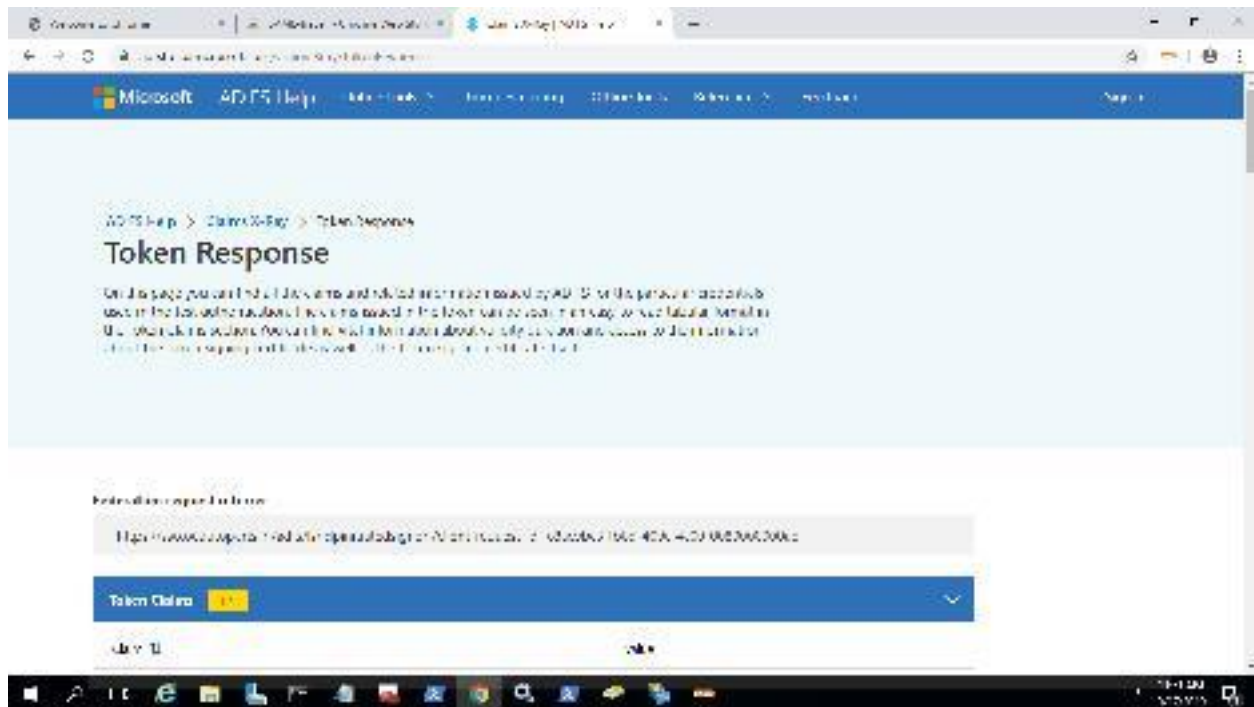
You are not signed in.

- Sign in to this site
- Sign in to one of the following sites:

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11:28 AM 9/17/2019

10. Accessing Claim X-Ray application integrated with SSO page



CONCLUSION

In conclusion, the advantages of SAML area unit swarming. Organizations will simply, nonetheless firmly share identity info and security is improved by eliminating the chance of shared accounts. User expertise is increased by eliminating further usernames and passwords, that conjointly permits for fewer service calls and body prices. firms ought to have documentation obtainable to exchange once putting in place SAML associations, since every SAML use case are often custom-made per individual business would like. Service suppliers will use completely different security protocols, like signed solely, versus signed and encrypted. additionally, some service suppliers could solely use the name ID section of the assertion, whereas others would possibly use custom attributes solely. This direct documentation will save troubleshooting time throughout the implementation and testing phases of the project. what is more, throughout checking phases it's useful to use a sample test web site for the service supplier and conjointly to check with SAML assertions signed solely. The sample check web site permits for the flexibility to isolate a check of solely the SAML affiliation between the 2 partners, before testing of the appliance happens. Testing with signed solely assertions permits for the flexibility to address rewrite the hypertext markup language hidden input field, and validate the info being passed to the service supplier. This ensures the proper information within the assertion is distributed and might be tested before the service supplier web site being absolutely ready for testing. in addition, mistreatment SAML information is extremely useful since it eliminates typos and errors once putting in place the partner entity. These information files will facilitate the identity supplier perceive precisely what the service supplier wants within the SAML assertion. each the identity supplier and repair supplier ought to utilize information files, not solely to hurry up manual work once getting into information into the federation software package, however to

conjointly cut back human error. The OASIS Security Services Technical Committee continues to boost upon this SAML two.0 commonplace by developing new profiles to probably be utilized in later releases. as an example, one space OASIS has already improved upon was a supplement to the information specifications that added new components and descriptor varieties. each identity suppliers and repair suppliers ought to remember of any changes to SAML standards that area unit sanctioned by OASIS. Staying current and not deviating from the standards helps to confirm compatibility, leading to less custom-made configurations between organizations.

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