

# ADFS Configuration for Exchange on-premises

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## Foreword

DS Service now allows single sign-on (SSO) method with Active Directory Federation Service (ADFS). This guide will explain how to install ADFS role and configure federation server to enable this SSO method.

**Note**: Using ADFS for Single Sign On is only supported by Window server version 2016 or later. For more information, refer to: <u>https://docs.microsoft.com/en-us/windows-server/identity/ad-fs/development/native-client-with-ad-fs</u>.

Kind regards, Digital Sign Service team



## **ADFS Role Installation**

To install ADFS role, follow these steps below:

Step 1: Open Server Manager, then click [Manage]  $\rightarrow$  [Add roles and features] to launch 'Add Roles and Features Wizard'.

🚡 Server Manager			– 🗆 X
Server Ma	anager • Das	hboard 🔹 🕫 l 🗗	Manage Tools View Help Add Roles and Features Remove Roles and Features
Dashboard     Local Server		1 Configure this local server	Add Servers Create Server Group
All Servers	QUICK START	2 Add roles and features	Server Manager Properties
■ File and Storage Services ▷ ■ IIS	WHAT'S NEW	<ul> <li>3 Add other servers to manage</li> <li>4 Greate a server group</li> </ul>	
		5 Connect this server to cloud services	
	LEARN MORE		Hide

Step 2: On the 'Before you begin' page, click [Next].

Step 3: On the 'Select installation type' page, choose 'Role-based or Feature-based installation', then click [Next].

📥 Add Roles and Features Wiza	rd	-		×
Select installatio	n type	DESTIN.	ATION SER PS61.RC.C	VER OM
Before You Begin Installation Type Server Selection Server Roles Features Confirmation	Select the installation type. You can install roles and features on a running physic 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 or service based desktop deployment	cal comput a virtual m	ter or virti achine-b	ual ased
	or session-based desktop deployment.			
	< Previous Next >	nstall	Cance	2



Step 4: On the 'Select destination server' page, choose 'Select a server from the server pool', then select a server shown in the pool below. And click [Next]. I.e.:

elect destinat	ion server			F	2561.RC.C
Before You Begin Installation Type Server Selection	Select a server or a vi Select a server fro Select a virtual ha	rtual hard disk on which m the server pool	to install roles and features.		
Server Roles	Server Pool				
Features					
Confirmation	Filter:				
Results	Name	IP Address	Operating System		
	PS61.RC.COM	192.168.2.61	Microsoft Windows Server 20	16 Standard	
	1 Computer(s) found				

Step 5: On the 'Select server roles' page, select 'Active Directory Federation Services' and click [Next]. I.e.:

📥 Add Roles and Features Wizar	d	- 🗆 X
Select server role	es	DESTINATION SERVER PS61.RC.COM
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select one or more roles to install on the selected server         Roles <ul> <li>Active Directory Certificate Services</li> <li>Active Directory Federation Services</li> <li>Active Directory Federation Services</li> <li>Active Directory Rights Management Services</li> <li>Device Health Attestation</li> <li>DHCP Server</li> <li>DNS Server</li> <li>Fax Server</li> <li>File and Storage Services (1 of 12 installed)</li> <li>Host Guardian Service</li> <li>Hyper-V</li> <li>MultiPoint Services</li> <li>Network Policy and Access Services</li> <li>Print and Document Services</li> <li>Remote Access</li> </ul>	r.           Description           Active Directory Federation Services (AD FS) provides simplified, secured identity federation and Web single sign-on (SSO) capabilities. AD FS includes a Federation Service that enables browser-based Web SSO.
	<ul> <li>↓ Volume Activation Services</li> <li>↓ Volume Activation Services</li> <li>↓ Web Server (IIS) (13 of 43 installed)</li> <li>↓ Windows Deployment Services</li> </ul>	Next > Install Cancel



Step 6: On the 'Select features' page, click [Next].

**Step 7**: On the confirmation page, click **[Install]**. The wizard will then show the installation progress. Wait until the installation completes. While waiting, you can click **[Close]** since the installation will still run in the background.



## **ADFS Configuration**

#### Part A. Post-deployment Configuration

Follow the guide below for post-deployment configuration after the ADFS role installation.

**Step 1**: When the installation completes, you will see a new notifications flag on Server Manager dashboard. Click on the flag to show notification list, then click **Configure the federation service on the server**, i.e.:



This will launch the Active Directory Federation Service Configuration Wizard.

Step 2: On the wizard's Welcome page, select 'Create the first federation server in a federation server farm' click [Next].



📥 Active Directory Federation Serv	ices Configuration Wizard	-		×
Welcome		TAI A	RGET SEF DFS.druv	₹VER ⁄a.ga
Welcome Connect to AD DS Specify Service Properties Specify Service Account Specify Database Review Options Pre-requisite Checks Installation Results	<ul> <li>Welcome to the Active Directory Federation Services Configuration Wizard.</li> <li>Before you begin configuration, you must have the following: <ul> <li>An Active Directory domain administrator account.</li> <li>A publicly trusted certificate for SSL server authentication.</li> </ul> </li> <li>AD FS prerequisites</li> </ul>			
	Select an option below:  Create the first federation server in a federation server farm  Add a federation server to a federation server farm  Configuring sign-in to Office 365? Exit this wizard and use Azure Active Direct  Configuring sign-in to Office 365?	ctory Conr	nect.	

**Step 3**: On the 'Connect to Active Directory Domain Services' page, click [**Change**] and specify an account with domain administrator rights for the Active Directory domain that this system is connected to. Then click [**Next**].



🚡 Active Directory Federation Services Configuration Wizard 🛛 – 🗆				×
Connect to Active	Directory Domain Services	TAF Al	RGET SEF DFS.druv	RVER /a.ga
Welcome Connect to AD DS	Specify an account with Active Directory domain administrator permissions to federation service configuration.	perform	the	
Specify Service Properties Specify Service Account	DS\admin Change	٦		
Specify Database				
Review Options				
Pre-requisite Checks				
Installation				
Results				
	L			)
	< Previous Next > Config	ure	Cance	ł



**Step 4**: On the 'Specify Service Properties' page, setup the following properties:

- SSL Certificate: Browse to the location of the SSL certificate and import it.
- Federation Service Name: This applies the same value provided when you enrolled an SSL certificate in Active Directory Certificate Services (AD CS).
- Federation Service Display Name: Enter a display name.

Active Directory Federation Serv	vices Configuration Wizard		– 🗆 🗙
Specify Service Pr	roperties		TARGET SERVER ADFS.druva.ga
Welcome Connect to AD DS	SSL Certificate:	 View	Import
Specify Service Properties Specify Service Account Specify Database	Federation Service Name:	<ul> <li>Example: fs.contoso.com</li> </ul>	
Review Options Pre-requisite Checks Installation	Federation Service Display Name:	* Users will see the display name at sign Example: Contoso Corporation	ı in.
nesuits			
		< Previous Next > Configu	ure Cancel

Afterwards, click [Next].

NOTE: If you do not have SSL certificate yet, refer to Appendix A in this document to create SSL certificate.



Step 5: On the 'Specify Service Account' page, select 'Use an existing domain user account' and specify a user or service account. Then click [Next].

Active Directory Federation Serv	ices Configuration Wizard			-		×
Specify Service Ad	count			TAF Al	RGET SER DFS.druv	VER a.ga
Welcome Connect to AD DS Specify Service Properties Specify Service Account Specify Database	Specify a domain user accou Create a Group Managed Account Name: © Use an existing domain u	nt or group Managed Service Acc Service Account DS\ ser account or group Managed S	ervice Account			
Review Options Pre-requisite Checks Installation Results	Account Name: Account Password:	DS\admin	Clear		Select	
		< Previous Next >	Configu	ire	Cance	1

Step 6: On the 'Specify Configuration Database' page, select 'Create a database on this server using Windows Internal Database' and click [Next].



Active Directory Federation Service	ices Configuration Wizard		-		×
Specify Configura	tion Database		TA /	RGET SEF ADFS.druv	RVER va.ga
Welcome Connect to AD DS Specify Service Properties Specify Service Account	Specify a database to store the Create a database on this s Specify the location of a SC	e Active Directory Federation Service configur server using Windows Internal Database. QL Server database.	ration data		
Specify Database Review Options	Database Host Name:				
Pre-requisite Checks Installation Results	Database Instance:	To use the default instance, leave th	his field blo	ınk.	
		< Previous Next > Con	nfigure	Cance	el

**Step 7**: On the 'Review Options' page, after a short while the wizard will show you all the selections you have made. When you finish your review, click [**Next**].

**Step 8**: On the 'Pre-requisite Checks' screen, it will check if all the prerequisites are validated for ADFS configuration. After a short while, the results will be shown in the box below. I.e.:





When all prerequisite checks passed successfully, click [**Configure**] to finally install ADFS. You can get to the 'Results' page once the process is done.



#### Part B. AD FS Management Configuration

**NOTE**: Post-deployment Configuration for ADFS is required. If it is not completed or failed, you will not be able to fully configure on **ADFS Management** despite being able to open the tool.

Step 1: Go to web server where your Exchange server is installed, open Server Manager, then click  $[Tools] \rightarrow [AD FS Management].$ 



Step 2: In the opened window, select Application Groups and click [Add Application Group...] from the Actions sidebar to launch configuration wizard for a new Group.

Image: Second system     Image: Second system       Image: Second system     Mindow       Mindow     Help				×
🗢 🔿 🙎 🖬 🚺 🖬				
AD FS	Application Groups		Actions	
<ul> <li>Service</li> <li>Attribute Stores</li> <li>Authentication Methods</li> <li>Certificates</li> <li>Claim Descriptions</li> <li>Device Registration</li> <li>Endpoints</li> <li>Scope Descriptions</li> <li>Web Application Proxy</li> <li>Access Control Policies</li> <li>Rying Party Trusts</li> <li>Claims Provider Trusts</li> <li>Application Groups</li> </ul>	Name [RC 4.1 OpenID RC 4.1 OAuth	Description	Application Groups Add Application Group View New Window from Here Refresh Help	,



**Step 3**: On the 'Add Application Group wizard'  $\rightarrow$  'Welcome' screen, fill in a Name and select '**Server** application accessing a web API' in Template. Then click [Next].

翰 Add Application Group W	fizard X
Welcome	
Steps	Name:
Welcome	
Server application	Dessisting
<ul> <li>Configure Application</li> <li>Credentials</li> </ul>	Description.
Configure Web API	
Apply Access Control Policy	Tamalata
<ul> <li>Configure Application</li> <li>Permissions</li> <li>Summary</li> </ul>	Client-Server applications           Server application accessing a web API
Complete	Server application accessing a web API         Image: Server application         Image: Server applicat
	< Previous Next > Cancel

Step 4: On 'Server application' screen, fill in 'Redirect URL' and click [Add]. You will have to provide 2 URLs: one URL for receiving login details from ADFS, and one URL for receiving logout information from ADFS.

翰 AD FS	翰 Add Application Group Wi	zard	×
<ul> <li>File Action View W</li> <li>→ → 2 → □</li> </ul>	Server application		
AD FS  Control Policie  Control Policie	Steps Welcome	Name: Nga ADFS - Server application	
Relying Party Trusts Claims Provider Trusts	Configure Application Credentials     Configure Web API	Qlient Identifier: c2191bd3-0f27-4179-88c6-55da61c6274a <u>R</u> edirect URI:	
	<ul> <li>Apply Access Control Policy</li> <li>Configure Application Permissions</li> </ul>	Example: https://Contoso.com       Add         https://dssclients.aod.vn/DigitalSignService/Common/Dashboard       Remove         https://dssclients.aod.vn/DigitalSignService/Api/Authentication/Logout       Remove	,
	<ul><li>Summary</li><li>Complete</li></ul>		
		Pescopulon:	

The URL for receiving logout details from ADFS must have the following format:

[RC backend URL]/Api/Authentication/Logout



#### E.g., http://dssclients.aod.vn/DigitalSignService/Api/Authentication/Logout

Then click [Next].

**Step 5**: On the 'Configure Application Credentials' screen, check on '**Generate a shared secret**' and click **[Copy to clipboard]** save the *client secret*.

🏟 Add Application Group W	/izard ×
Configure Application	Credentials
Configure Application Steps Velcome Server application Configure Application Credentials Configure Web API Apply Access Control Policy Configure Application Permissions Summary Complete	Credentials         Select credentials used by the application to authenticate itself with AD FS when requesting access tokens.         Register a key used to sign JSON Web Tokens for authentication         Configure         Windows Integrated Authentication         Select the AD Account:         Example: CONTOSO\expensevc         Select a shared secret         Secret:         uU5e31F-EpZN3x2ghvPUINFQK113jp306Cqp_zdV       Copy to clipboard         Image: Copy and save the secret. You will not be able to view the secret after the application group is created. You can reset the secret later if required.
	< Previous Next > Cancel

Then click [Next].



Step 6: On 'Configure Web API' screen, copy the Client Identifier from Step 4 to fill in Identifier field and click [Add] button.

输 Add Application Group W	fizard ×	
Server application		
Steps	Name:	
Welcome	Nga ADFS - Server application	
Server application	Ciert Identifier	
<ul> <li>Configure Application Credentials</li> </ul>	c2191bd3-0f27-4179-88c6-55da61c6274a	
Configure Web API	Redrect URI:	
Apply Access Control Policy	Example: https://Contoso.com Add	
<ul> <li>Configure Application Permissions</li> </ul>	https://dssclients.aod.vn/DigitalSignService/Cymmon/Dashboard https://dssclients.aod.vn/DigitalSignService/All/Authentication/Logout	
Summary		
<ul> <li>Complete</li> </ul>		
Configure Web A	PI	
Jucps	Name:	
vveicome	RCOpenIDConnect - Web API	
Server application	Identifier:	
<ul> <li>Configure Application Credentials</li> </ul>	776a2f30-233f-4d9f-a74b-2dbc406c63f2	Add
Configure Web API		Remove
Apply Access Control F	Policy	
<ul> <li>Configure Application Permissions</li> </ul>		
Summary	Description:	
Complete		
Complete		
	< Previouse Nexts	Cancel
	CTTEVIOUS INCAL 2	Carloci

After that, click [Next].





Step 7: On 'Choose Access Control Policy' screen, click [Next].

steps	Choose an access control policy:	
Welcome	Name	Description
Server application	Permit everyone	Grant access to everyone.
Configure Application Credentials Configure Web API	Permit everyone and require MFA Permit everyone and require MFA for specific group Permit everyone and require MFA from extranet access	Grant access to everyone and require MFA f Grant access to everyone and require MFA f Grant access to the intranet users and requir
Apply Access Control Policy	Permit everyone and require MFA from unauthenticated	Grant access to everyone and require MFA f
Configure Application	Permit everyone and require MFA, allow automatic devi	Grant access to everyone and require MFA f
Permissions	Permit everyone for intranet access	Grant access to the intranet users.
Summary	Fernic specific group	ciant access to users of one of more specifi
Complete	Policy	
	Permit everyone	is time. No users will be permitted access for this

Step 8: On 'Configure Application Permissions' screen, check on openid and user\_impersonate checkboxes.

Welcome					
welcome	Client application (ca	ller):			
Server application	Name	De	escription		
Configure Application Credentials	Chi OAuth - Server	application			
Configure Web API					
Apply Access Control Policy					
Configure Application Permissions					
Summary					
Complete				Add	Remove
	Permitted scopes:				
	Scope Name	Description			
	email	Request the email claim	) for the signed in user.		
	logon_cert	The logon_cert scope a	allows an application to reques	st logo	
	openid	Request use of the Ope	ID Connect authorization pr	otocol.	
		Request profile related (	claims for the signed in user.	5000 UT	
	vpn_cert	The yon, cert scope all	ows an application to request	VPN	
	winhello cert	The winhello cert scop	e allows an application to requ	uest	

Click [Next] proceed.



Step 8: On 'Summary' screem, click [Next] which will move to 'Complete' screen, then click [Close] to finish.

翰 Add Application Group W	fizard S	×
Finish		
Steps	The Application Group has been successfully created.	
Welcome		
Server application		
<ul> <li>Configure Application Credentials</li> </ul>		
Configure Web API		
Apply Access Control Policy		
<ul> <li>Configure Application</li> <li>Permissions</li> </ul>		
Summary		
Complete		
	Glose	

Step 9: Check if the configuration is done correctly by running the hyperlink below on the browser:

https://mp114.kav.com/adfs/.well-known/openid-configuration

I.e.:

🔯 Login	$ imes$ $\mid$ $\diamondsuit$ How to install and configure ADF $ imes$	S https://mp114.kav.com/adfs/.wel ×	AD FS MSAL Native app calling V 🗙	+ 0	-	٥	×
← → C ▲ Not sec	ure   mp114.kav.com/adfs/.well-known/openid-	configuration				☆	<b>.</b> :
👯 Apps 🛛 Logging						🖽 Re	ading list
<pre>/kav.com/adfs/discover ["client_secret_post", cli token", "code id_token tok ["authorization_code", "re type:device_code", "device ["openid", "allatcliams", "ks256"], "token_endpoint ["aud", "iss", "iat", "exp", "*https://kav.com/adf ["kdf_ver2"],"end_session r token token binding rum</pre>	<pre>///keys", 'token_endpoint_auth_methods_supp lent_secret_basic,'private_key_jut', 'wind n'], 'respnce_modes_upported':['query',' fresh_token', 'client_credentials', 'urnite' code'], 'subject_types_supported':['painul rpn_cert', 'zas'', "enails, "user_impersonatio auth_signing_alg_value_supported':['RS25 "auth_time', "nonce'', 'at_hash', "c_hash', "su /'userinfo'', 'casabilitis':</pre>	<pre>orted": vws_client_authentication"],"respt fragment","form_post"),"grant_typ fragmans:oauth:grant-type:jut-beas es"]"scopes_supported" "n","logon_cert","profile","winhell of),"acces_chem_issue"."http:// b","upn","unique_name","pwd_url",'</pre>	onse_types_supported":["code","id_to es_supported": rer","implicit","password","srv_chal lo_cert"],"id_token_signing_alg_valu //kav.com/wafs/services/trust", "pwd_exp","mfa_auth_time","sid"],"mi	<pre>www.com/ours/couche/couch</pre>	:en", "c .t- , "useri	ode	endpoint



### Part C. Adding Native Application

**Step 1**: After AD FS Management Configuration from Part B, on Server Manager, click [**Tool**]  $\rightarrow$  [**AD FS Management**], you will see a new name in 'Application Groups' list. I.e.:

N AD FS			– 🗆 X
翰 File Action View Window Help			_ & ×
📫 AD FS	Application Groups		Actions
V Service	Name	Description	Application Groups
Authentication Methods	Nga ADFS		Add Application Group
Certificates	1		View
Claim Descriptions			New Window from Here
Device Registration			Refresh
Scope Descriptions			Help
Web Application Proxy			1 Treip
Access Control Policies			Nga ADFS 🔺
Claims Provider Trusts			Properties
Application Groups			🗙 Delete
			👔 Help
	]		]]
1			

Double click on this new application, and click [Add Application].

i AD FS	Nga ADFS Properties X	×
🧌 File Action View Window Help	General	_ & ×
🗢 🔿 📶 🛛 🖬		
Application O	Name:	Actions
✓ Service Name	Nga ADFS	Application Groups
Attribute Stores Nathods Nat ADFS	Description:	Add Application Group
Certificates		View
Claim Descriptions		New Window from Here
Device Registration		Refresh
Scope Descriptions	Applications:	Help
Web Application Proxy	Name Description	
Access Control Policies	Server application	Nga ADFS
Claims Provider Trusts	Nga ADFS - Server application	Properties
Application Groups	Web API	🗙 Delete
	Nga ADFS - Web API	🛛 Help
	Add application Edit Remove	
	OK Cancel Apply	



This will open 'Welcome' screen below. Here, select 'Native application' and click [Next].

~	
Steps	Name:
Welcome	Nga ADFS
<ul><li>Native application</li><li>Summary</li><li>Complete</li></ul>	Description:
	Template:
	More information

Step 2: On 'Native application' screen, add Redirect URI then click [Next].



Native application	
O	
Steps	Name:
Welcome	Nga ADFS - Native application
Native application	
Summary	
Complete	ebeddU3I-d3ba-4bd4-99bc-57/4c5babac8
	Redirect URI:
	Example: https://Contoso.com Add
	https://descliente.ad.vp
	Remove Remove
	Description:
	•
	< Previous Next > Cancel



Step 3: On 'Summary' screen, you can review all the information. If there is no change, click [Next] to proceed.

Steps	Review the following settings and click 'Next' to create the application
Welcome	
Native application	Application Group
Summary	Name: Nga ADFS
Complete	Native application
	Name: Nga ADFS - Native application
	Identifier: e6edd031-d36a-46d4-99bc-5774c56abac8
	Redirect URIs:
	https://dseclients.and.vn
	Trapes / Goodin Reador. 41

Then click [Close] on the next screen.



Finish	
Steps	The Application Group has been successfully created.
Welcome	
Native application	
Summary	
Complete	
	Close

Step 4: On AD FS window, select Claims Provider Trusts, then select Active Directory and click [Edit Claim Rules] to open this screen.

💱 AD FS	– 🗆 X
🧌 File Action View Window Help	- 8 ×
AD FS Claims Provider Trusts	Actions
Service Enabled	Claims Provider Trusts
Authentication Methods Active Directory Yes	Add Claims Provider Trust
Certificates	View 🕨
Claim Descriptions	New Window from Here
	Q Refresh
Scope Descriptions	🕐 Help
Web Application Proxy	Active Directory
Relying Party Trusts	Update from Federation M
Claims Provider Trusts	Edit Claim Rules
	Disable
	Properties
	👔 Help
Edit claim rules for the selected claims provider trust	

Step 5: On 'Edit Claim Rules for Active Directory' screen, click [Add Rule...].





The follo from the Order	wing acceptance transform rules specify the ir claims provider and the outgoing claims that w Rule Name	ncoming claims that will be acce vill be sent to the relying party th Issued Claims	epted ust.
1 2 3 4 5 6 7 8 9 10	Pass through all Windows account name Pass through all Name claims Pass through all Primary SID claims Pass through all Group SID claims Pass through all Primary group SID claims Pass through all Deny only group SID cla Pass through all Deny only primary group Pass through all Deny only primary group Pass through all Deny only primary group Pass through all Deny claims	Windows account name Name Primary SID Group SID Primary group SID Deny only group SID Deny only primary SID Deny only primary group Enhanced Key Usage UPN	•
Add F	tule Edit Rule Remove Rule	]	

Step 6: On 'Select Rule Template' screen, select Transform an Incoming Claim for 'Claim rule template', then click [Next].

Steps	Select the template for the claim rule that you want to create from the following list. The description provides
Choose Rule Type	details about each claim rule template.
Configure Claim Rule	Caim rule template:          Transform an Incoming Claim         Caim rule template description:         Using the Transform an Incoming Claim rule template you can select an incoming claim, change its claim type, and optionally change its claim value. For example, you can use this rule template to create a rule to that will send a role claim with the same claim value of "Purchases" when there is an incoming group claim. You can also use this rule to error and so use this rule to error and the same claim with the same claim when there is an incoming group claim. You can also use this rule to "Admina". Multiple claims with the same claim type may be emitted from this rule. Sources of incoming claims vary based on the rules barge adted.



Step 7: On 'Configure Claim Rule' screen, fill in the following fields:

- Claim rule name: enter NameID,
- Incoming claim type: select Name,
- Outgoing claim type: select Name ID,
- Outgoing name ID format: select Common Name

Steps	You can configure this ru	You can configure this rule to map an incoming claim type to an outgoing claim type. As an option, you can also map an incoming claim value to an outgoing claim value. Specify the incoming claim type to map to the outgoing claim type and whather the claim value should be manned to a new claim value.		
Choose Rule Type	also map an incoming cla outgoing claim type and y			
Configure Claim Rule	Claim rule name:			
	NameID			
	Rule template: Transform	an Incoming Claim		
	Incoming claim type:	Name	· · · · · · · · · · · · · · · · · · ·	
	Incoming name ID format	- Inspecified	×	
	Outgoing claim type:	Name ID		
	Outgoing nam <u>e</u> ID format	Common Name	· · · · · · · · · · · · · · · · · · ·	
	Pass through all claim	values		
	<ul> <li>Pass through all claim</li> <li><u>R</u>eplace an incoming</li> </ul>	values claim value with a different outgoing claim value		
	<ul> <li>Pass through all claim</li> <li><u>Replace an incoming</u> Incoming claim value:</li> </ul>	values claim value with a different outgoing claim value		
	<ul> <li>Pags through all claim</li> <li><u>Replace an incoming</u> Incoming claim value: Outgoing claim value:</li> </ul>	values claim value with a different outgoing claim value	Browse	
	<ul> <li>Pass through all claim</li> <li><u>Replace an incoming</u> Incoming claim value: Outgoing claim value:</li> <li>Replace incoming e-m</li> </ul>	values claim value with a different outgoing claim value 	Browse	
	<ul> <li>Pags through all claim</li> <li><u>Replace an incoming</u> Incoming claim value: Outgoing claim value:</li> <li>Replace incoming err New ermail suffic:</li> </ul>	values claim value with a different outgoing claim value 	<u>B</u> rowse	
	<ul> <li>Pags through all claim</li> <li><u>Replace an incoming</u> Incoming claim value: Outgoing claim value:</li> <li>Replace incoming err New ermall suffix:</li> </ul>	values claim value with a different outgoing claim value	<u>B</u> rowse	
	<ul> <li>Pags through all claim</li> <li><u>Replace an incoming</u> Incoming claim value: Outgoing claim value:</li> <li>Replace incoming err New ermail suffic:</li> </ul>	values claim value with a different outgoing claim value  inclaim value with a different outgoing claim value  inclaim suffix claims with a new e-mail suffix  Example: fabrikam.com	<u>B</u> rowse	
	<ul> <li>Pags through all claim</li> <li><u>Replace an incoming</u> Incoming claim value: Outgoing claim value:</li> <li>Replace incoming err New ermail suffix:</li> </ul>	values claim value with a different outgoing claim value  inclaim value with a different outgoing claim value  inclaim suffix claims with a new e-mail suffix  Example: fabrikam.com	<u>B</u> rowse	

Then click [Finish].

Step 8: On 'Edit Claim Rules for Active Directory' screen, click [Apply].





Step 9: Check if the configuration is done correctly by running the hyperlink below on the browser:

https://mp114.kav.com/adfs/oauth2/authorize?client\_id=[client\_id of the activated
application]

I.e.: <u>https://mp114.kav.com/adfs/oauth2/authorize?client\_id=fa7249a7-0ad3-4811-a642-</u> <u>b3648100cce0&redirect\_uri=https://dssclients.aod.vn/DigitalSignService/Admin/Callback&scope=openid&res</u> ponse\_mode=fragment&state=12345&response\_type=code

← → C ▲ Not secure   mp114.kav.com/adfs/oauth2/authorize?client_id=cfe694f3-c1eb-4032-af1a-8dd86d3b679e&redirect_uri=ht	tps://dssclients.aod.vn/DigitalSignService/Admin/Callbac 🛧 😩 :
	ADFS
	Sign in with your organizational account bomeone@example.com Password Sign in
	© 2016 Microsoft



## Appendix

#### Appendix A. Create SSL certificate for Post-deployment Configuration

In some cases, you may not have SSL certificate for Step 4 of Post-deployment Configuration, i.e.:

📥 Active Directory Federation Ser	- 🗆 X	
Specify Service P	roperties	TARGET SERVER MP114.kav.com
Welcome Connect to AD DS Specify Service Properties	SSL Certificate:	View
Specify Service Account Specify Database	Federation Service Name:	Example: fs.contoso.com
Review Options Pre-requisite Checks Installation Results	Federation Service Display Name:	* Users will see the display name at sign in. Example: Contoso Corporation

In that case, open file **Readme.txt** in the folder **openssI-1.0.2I-x64\_86-win64**, then follow the steps described in this text file to create a **.pfx** file.

You can then import SSL Certificate using the created .pfx file.