HowTo - Setup EntralD with SNS (by GUI) - EN

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 - Using the SSL VPN Client 5.1

A This procedure describes all the configuration operations to be performed both in EntralD and on the SNS.

However, it is strongly recommended to have prior knowledge of the EntraID solution and the possibilities offered by authentication via an "OpenID Connect" application.

Configuration cinematics by the administrator of EntralD account authorization to mount VPN SSL tunnels.

Overall Procedure:

- 1. On EntraID, configure the SNS application in EntraID
- 2. On EntraID, associate users, including the test user, to a security group that will be authorized for VPNSSL.
- 3. On EntraID, export the security groups from EntraID that are relevant to SNS.
- 4. On the SNS, configure the OIDC method for EntralD
- 5. On the SNS, import the security groups from EntraID
- 6. On the SNS, configure the security group in the UAC to authorize VPNSSL.
- On the VPNSSL Client, establish the tunnel with a test account
- 8. On the SNS, validate the users and VPNSSL tunnels in the monitoring.

SNS Application in EntralD

(i) All manipulations are to be performed in the 'Identity' section

Creation of the application

Configuration of the SNS application in EntralD

From the administration interface of your EntraID space "Register an application" named "SNS Connector"

with "Redirect URI (optional)" in "Web" mode

and enter the public URL of the SNS for example: "https://vpnssl.mycompany.com /auth/v1/oidc/token/sslvpn"

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Token Configuration

1/ Go to "Application Registration"; click on "Display all applications in the directory" and select the SNS connector application, then "Token Configuration"

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Token configuration :



2/ Add the optional "preferred_username" claim for the ID Token (11 mandatory for SNS)



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App registrations	API permissions		email	The addressable email for this user, if the user has one									
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Identity Governance	Approtes		fwd	IP address									
前 External Identities	Roles and administrators		given_name	Provides the first or "given" name of the user, as set on th									
	III Manifest		in_corp	Signals if the client is logging in from the corporate netw									
··· Show more	Connect - Tranklashani'an		ipaddr	The IP address the client logged in from									
🔓 Protection 🗸	Support + Troubleshooting		login_hint	Login hint									
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Identity Governance			preferred_username	Provides the preferred username claim, making it easier f									
			pwd_exp	The datetime at which the password expires									
vennea ID V				A URL that the user can visit to change their password									
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3/ For "Add Group Claim", and in the "Edit Group Claim" section, check "Security Groups" with ID on "Group ID".

🚯 Optional for SNS but strongly recommended in order to benefit from UAC/AAC/filtering and authentication policies on security groups.



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★ Favorites ∨	Search « Overview	R ² Got feedback? Optional claims	Select group types to include in Access, ID, and SAML tokens.
Identity Overview Users	Guickstatt Integration assistant Diagnose and solve problems	Optional claims are used to configure additional information which is returned in one or more tokens. Learn more _C * + Add optional claim + Add groups claim	County groups Directory roles All groups (includes 3 group types: security groups, directory roles, and distribution lists) Groups assigned to the application (recommended for large enterprise companies to O
수 Osers · · · · · · · · · · · · · · · · · · ·	Manage Branding & properties Authentication	Claim +, Description preferred_username Provides the preferred username claim, making it easier for apps to provide username hints and	avoid exceeding the limit on the number of groups a token can emit) Customize token properties by type
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f Note that it is possible to limit the groups included in the ID Token to those assigned to the application, but this is subject to a P1 subscription.



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4/ From App registrations SNS Connector Overview

- Copy the value of "Directory (tenant) ID" to fill in the "IssuerID" in the SNS configuration.
- Copy the value of "Application (client) ID" to fill in the "ClientID" in the SNS configuration.



Creation of the secret

Learn & support

1/ In the "Certificates & Secrets" menu, "Client Secrets" tab, create a "new client secret"

View all quickstart guides

Go to Enterprise applications



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2/ Copy the secret value to then fill in the "ClientSecret" in the SNS configuration.

User Association

Associating users to a security group that will be authorized for SSL VPN.

1/ Go to "Groups" and create a security group named 'VPNSSL EntraID Users'

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2/ Associate with this group, the users who will be authorized to set up an SSL VPN tunnel (; several methods possible)



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3/ In the "All groups" view, copy the "Object ID" value to enter the group's UID in the SNS configuration.



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Assignement des utilisateurs à l'application

Via Enterprise applications SNS Connector Properties, it is possible to allow access to the application to all users of the tenant or to limit its access to a list of users.

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^ሳ ደ ⁸ Groups	V 🎎 Owner	s If this this a	s option is set to yes, then users and other apps or se application before being able to access it.	rvices must first be assigned		~				
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In the case where this option is set to Yes, you must assign the users you want to authorize via Users and groups



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SNS Configuration

Configuration of the OIDC method for EntraID

To do this, you need to copy the following elements from the EntralD configuration (overview, see previous steps):

- TenantID: Directory ID (tenant)
- ClientID: Application ID (client)
- ClientSecret: Displayed as "Client Secrets"

Update the OIDC authentication profile

In the web administration interface, go to the 'Authentication' panel.

In the 'Activate a method' menu, choose 'OIDC / Entra ID'

Copy the EntraID configuration elements into the assistant.

Proceed to configure the redirect URLs before finishing the assistant.

The "IssuerID" parameter will be built as: "https://login.microsoftonline.com/\$TENANTID/v2.0"

The redirect URLs are built from the Captive Portal configuration (System/Configuration -> General Configuration -> Advanced Configuration -> Captive Portal)

Configuration of Redirect URLs in EntraID

Update the desired redirect URI in the SNS Connector application from the proposed ones

1/ Update the existing redirect URI





2/ Add if necessary the redirect URI to allow authentication via the SNS captive portal

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Diagnose & solve problems	Overview		
★ Favorites	✓	Platform configurations	
A Islandika	A Integration assistant	Depending on the platform or device this application is targeting, additional configuration may be required such as	
	X Diagnose and solve probler	redirect URIs, specific authentication settings, or fields specific to the platform. ns	
O Overview	Manage	+ Add a platform	
8 Users	Branding & properties		
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E Devices	 Certificates & secrets 	The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating or signing out users. The redirect	
Applications	Token configuration	URI you send in the request to the login server should match one listed here. Also referred to as reply URLs. Learn more about Redirect URIs and their restrictions -2	
Enterprise applications	API permissions		
App registrations	 Expose an API 	ntips//vpinskinycompany.com/auti/v//i/olic/token/sswpm	
A Protection	App roles	<u>um fei</u>	
Identity Governance	Roles and administrators		
D External Identities	Manifest	Front-channel logout URL	
- Go external identities	Support + Troubleshooting	This is where we send a request to have the application clear the user's session data. This is required for single sign-out to work correctly.	
Show more	New support request	e.g. https://example.com/logout	
	\checkmark	Implicit grant and hybrid flows	
		Request a token directly from the authorization endpoint. If the application has a single-page architecture (SPA) and	
(A) Identity Governance	~	doesn't use the authorization code flow, or if it invokes a web API via JavaScript, select both access tokens and ID tokens. For ASP.NET Core web apps and other web apps that use hybrid authentication, select only ID tokens. Learn more about	
Uarified ID	\sim	tokens.	
Learn & support	^	Select the tokens you would like to be issued by the authorization endpoint:	
https://entra.microsoft.com/#	**	Save Discard	



3/ On this same page, take the opportunity to check the following configurations:

- Ensure that the options "Access tokens (used for implicit flows)" and "ID tokens (used for implicit and hybrid flows)" are not checked to ensure that the application does not use either the implicit flow or the hybrid flow, in accordance with security best practices.
- The option "Accounts in this organizational directory only (Single tenant)" must be selected. The other options have not been internally tested, their operation cannot be guaranteed and they are not officially supported.
- The application uses redirect URIs and does not rely on public client flows. The "Allow public client flows" option must therefore be set to "No".

Implicit grant and hybrid flows

Request a token directly from the authorization endpoint. If the application has a single-page architecture (SPA) and doesn't use the authorization code flow, or if it invokes a web API via JavaScript, select both access tokens and ID tokens. For ASP.NET Core web apps and other web apps that use hybrid authentication, select only ID tokens. Learn more about tokens.

Select the tokens you would like to be issued by the authorization endpoint:



Access tokens (used for implicit flows)

ID tokens (used for implicit and hybrid flows)

Supported account types

Who can use this application or access this API?

- Accounts in this organizational directory only (Zeta1 only Single tenant)
- Accounts in any organizational directory (Any Microsoft Entra ID tenant Multitenant)

Help me decide...

▲ Due to temporary differences in supported functionality, we don't recommend enabling personal Microsoft accounts for an existing registration. If you need to enable personal accounts, you can do so using the manifest editor. Learn more about these restrictions.

Advanced settings

Allow public client flows ①

Enable the following mobile and desktop flows:

- App collects plaintext password (Resource Owner Password Credential Flow) Learn more 2
- SSO for domain-joined Windows (Windows Integrated Auth Flow) Learn more 2

Re-check the SNS configuration

If all the **redirect URIs** listed by SNS have been entered in the **SNS Connector** application on the EntralD side, then no warning will be displayed and the configuration will be considered valid.

1 Finish configuration assistant



×

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Importing EntraID Security Groups

1/ Creation of an OIDC group corresponding to VPNSSL users

Go to the 'Users' panel and the 'ENTRA ID' tab

Add a security group and apply the configuration

Example :

- Name="VPNSSL EntralD Users"
- UID="8239ee3f-d506-4caa-9316-0abd9eb610b1"
 Description="Your description for this group"

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Application roles (4)							
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Auditors	SNS.Config.All.Read	User allowed to read configuration, granted via OIDC claims					
Sponsors	SNS.Sponsor	Sponsor users, granted via OIDC claims					
VPNSSL users	SNS.VPNSSL	Users with VPNSSL access, granted via OIDC claims					

Configuration of the security group in the UAC to allow SSL VPN

Creation of an authentication rule

The authentication rule must apply to the "out" interfaces to allow access to the captive portal, but also "sslvpn" to allow the establishment of SSL VPN tunnels for this type of user.

"Authentication" panel, "Authentication Policy" tab to create a rule based on the OIDC method and apply the configuration.

Example:

- Action = Allow
- Source = "any@any"

- Interface = "out, sslvpn"Method = OIDC

	LUTILISATEURS / AUTHENTIFICATION							
MI	MÉTHODES DISPONIBLES POLITIQUE D'AUTHENTIFICATION PORTAIL CAPTIF PROFILS DU PORTAIL CAPTIF							
Rec	herche par utilisateur.	+ Nouve	lle règle 👻 🗙 Supprimer 📔 🕇 M	onter 🛛 🌲 Descendre 📋 🎦 Couper	🚰 Copier 🛛 🐑 Coller			
	État	Action	Source		Méthodes (évaluées par ordre)	Mot de passe à usage unique	Commentaire	
1	C Activé	Autoriser	Any user @any not		1 4 OIDC	N/A		

Creation of an access rule

"Access Rights" panel, "Detailed Access" tab to validate or edit the rule allowing VPNSSL access.

Example:

- User= "VPNSSL EntraID Users"
- Domain = stormshield.onmicrosoft.com
- SSL VPN = Allow

•	L UTILISATEURS / DROITS D'ACCÈS							
4	ACCĖS PAR DĖFAU	IT ACCÈ	S DÉTAILLÉ					
Re	chercher		+ Ajouter	X Supprimer 1 Monte	er 🖡 Descendre			
	Etat	Utilisateur - g	roupe d'utilisate	urs	IPSEC	VPN SSL	Parrainage	Description
1	1 C Activé 🙁 VPNSSL EntralD Users@stor			tormshield.onmicrosoft.com	Interdire	Autoriser	Interdire	

Using the SSL VPN Client 5.1

When setting up the gateway (in direct connection or as a registered connection), in "Stormshield" mode, check the box "Log on with single authentication"

The Server field must necessarily specify the FQDN of the SNS that corresponds to the redirect URL previously configured in the SNS and 0 EntralD.

In particular, directly entering an IP address of the SNS will return an "internal" error.

+ Ajouter une nouvelle connexion

Mode Stormshield	Import de fichier .OVPN
Nom *	
EntralD SNS	
Serveur *	Port *
snsv5.stormshield.eu	443
Description	
Authentification	
Se connecter avec l'a	uthentification unique
Options de connexion	
Se connecter automa	atiquement

\frown	
(Annuler)	Ajouter