A Place where cloud begins.... AWS, Azure Cloud, DevOps and IT Infrastructure

Posts

Azure AD Connect Lab Setup – Step by Step Guide

🕓 June 22, 2020 👗 asingh 🔎 Leave a comment

Most of the enterprise adopting cloud has a mix of on-premises and cloud based infrastructure and in such scenarios having simplified identity control becomes key factor where you can use your existing identities to control authentication and authorization across all the applications and services regardless of cloud or on-premises. Talking from Microsoft Azure's perspective, with help of Azure Active Directory and Azure AD Connect we can implement "**Hybrid Identity**" solution which will simplify authentication and authorization to all applications and services across cloud and on-premises.

AWS What's New Tweets

Tweets by @awswhatsnew

aw

What's New (@awswhatsne Amazon Machine Image copy limits increased to 100 images per destination Region

Amazon EC2 now allows you to copy up to 100 Amazon Machine Images (AMIs) concurrently per destination region per account, an increase from the previous limit of 50 conc... aws.amazon.co m/aboutaws/what...

Azure AD Connect acts as bridge between your on-premises Active Directory infrastructure and Azure AD, it synchronizes user accounts, group memberships, and credential hashes from an on-premises Active Directory to Azure AD. We would be able to utilize many good feature of Azure AD like Single-Sing-On (SSO)/Federation, MFA, Hybrid Azure AD join, access control on Azure resources and Office 365 using onpremises AD identities

In this guide, I will walk you through how to configure Azure AD Connect to synchronize onpremises AD identities with Azure AD, there are different types of Azure AD Connect deployment topologies in the scenario of multiple forest and multiple Azure AD Tenants. In this lab implementation guide, Azure AD Connect deployment topology is "Single forest, single Azure AD tenant".

There are various prerequisites to note before we can go ahead and install Azure AD Connect in our environment, please refer below list of requirements for Azure AD, onpremises AD and Azure AD Connect server:

Azure AD prerequisites:

1. An Azure AD tenant. You get one with an Azure free trial also.

2. Add and verify the domain you plan to use in Azure AD. This should be your publicly registered domain. For example, if you plan to





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19 Dec 2020

What's New (@awswhatsne

Software

AWS

providers on

now use the self-service

Marketplace can

use contoso.com for your users then make sure this domain has been verified and you are not only using the contoso.onmicrosoft.com default domain. Every new Azure AD tenant comes with an initial domain name,

<domainname>.onmicrosoft.com. You can't change or delete the initial domain name, but you can add your organization's names. Adding custom domain names helps you to create user names that are familiar to your users, such as alain@contoso.com.

In my lab, I have my a routable domain (cloudmegh.in) and my on-premises AD domain name is also same but in cause If your onpremises AD domain is non-routable domain then you can follow this Microsoft documentation to solve the non-routable domain problem by registering new UPN suffix or suffixes in AD DS to match the domain (or domains) you verified in Microsoft 365/Azure AD. After you register the new suffix, you update the user UPNs to replace the .local with the new domain name for example so that a user account looks like abc@contoso.com. https://docs.microsoft.com/enus/office365/enterprise/prepare-a-non-routabledomain-for-directory-synchronization

On-premises Active Directory prerequisites:

 Use IdFix to identify errors such as duplicates and formatting problems in your directory before you synchronize to Azure AD and Office 365.

https://docs.microsoft.com/en-

	Get the details: msft.it/6013pXR d1
	19 Dec 2020
	Microsoft Az @Azure Join the #WindowsVirtua IDesktop digital event on January 28! Get best practices to optimize virtual desktops and apps—and ask your questions in the live chat. Register now: msft.it/6014pXB UY
	E tomat Widows bettep Matter Case
Embe	d View on Twitter



Julien Pivotto @roidelapluie Gathering uses cases / ideas /

us/office365/enterprise/install-and-run-idfix

2. It is recommended to enable the Active Directory recycle bin.

3. The AD schema version and forest functional level must be Windows Server 2003 or later. The domain controllers can run any version as long as the schema and forest level requirements are met.

4. If you plan to use the feature password writeback, then the Domain Controllers must be on Windows Server 2008 R2 or later.

5. The domain controller used by Azure AD must be writable. It is not supported to use a RODC (read-only domain controller) and Azure AD Connect does not follow any write redirects.

Azure AD Connect server prerequisites:

 Azure AD Connect can only be installed on Windows Server Standard, Enterprise or Datacenter editions.

2. Azure AD Connect must be installed on Windows Server 2012 or later. This server must be domain joined and may be a domain controller or a member server.

SQL for Azure AD Connect:

 Azure AD Connect requires a SQL Server database to store identity data. By default a SQL Server 2012 Express LocalDB (a light version of SQL Server Express) is installed. SQL Server Express has a 10GB size limit that enables you to



Kubernets Tweets

manage approximately 100,000 objects. If you
need to manage a higher volume of directory
objects, you need to point the installation wizard
to a different installation of SQL Server.
2. Microsoft Azure SQL Database is not
supported as a database.

Accounts:

 An Azure AD Global Administrator account for the Azure AD tenant you wish to integrate with. This account must be a school or organization account and cannot be a Microsoft account.
 If you use express settings or upgrade from DirSync, then you must have an Enterprise Administrator account for your on-premises Active Directory.

Network Connectivity:

If your local network has firewall/proxy then you need to ensure that all the required ports and endpoints mentioned in below documentations. https://docs.microsoft.com/en-us/azure/activedirectory/hybrid/reference-connect-ports https://docs.microsoft.com/enus/office365/enterprise/urls-and-ip-addressranges?redirectSourcePath=%252fengb%252farticle%252foffice-365-urls-and-ipaddress-ranges-8548a211-3fe7-47cb-abb1-355ea5aa88a2

Azure AD Connect – Key Terminologies and Components:

Azure AD Connect is a vast solution in itself so it's not feasible to cover all the deep dive architecture details in this post, below are

Tweets by @kubernetesio



Kubernetes @kubernetesic

With #K8s 1.20, infrastructure teams who manage large scale #Kubernetes clusters are seeing the graduation of two exciting and long-awaited

The Pod Resources API The DisableAccelera torMetrics feature

features:

More about it! kubernetes.io/bl og/2020/12/1...



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Kubernetes @kubernetesic

On the blog:
 "#Kubernetes
 1.20: Granular
 Control of
 Volume
 Permission
 Changes"

Kubernetes 1.26: Granular Control of Volume Termination Characteria Marca Caracteria Marca Caracter

important AAD Connect terminologies and	Embed	View on Twitter
concepts that you need to understand when		

working with Azure AD Connect.

1. Azure AD Connect sync (sync engine)							
2. Connector	10	uu	y				
3. Connected Data Sources or Connected	l	Dec	en	nbe	er 2	020)
Directories (CD)	S	Μ	т	W	т	F	S
4 . Source anchor			1	2	3	4	5
5. Connector Space (CS)	6	7	8	9	10	11	12
6. Metaverse (MV)	13	14	15	16	17	18	19
7. Joined Object (or connector object)	20	· · 21		22	2/	25	26
8. Disjoined Object (or disconnector object)	20	21	22	20	24	25	20
9. Provisioning	27	28	29	30	31		
10. Deprovisioning	<i>"</i> II	m					

It will be good to refer below Microsoft documentations to dive deeper into Azure AD Connect architecture and above concepts.

Azure AD Connect sync: Technical Concepts:

https://docs.microsoft.com/en-us/azure/activedirectory/hybrid/plan-connect-design-concepts

Azure AD Connect sync: Understanding the architecture:

https://docs.microsoft.com/en-us/azure/activedirectory/hybrid/concept-azure-ad-connect-syncarchitecture

Azure AD Connect Authentication (sign-in) **Options:**

Below are the four different authentication (signin) mechanisms provided by Azure AD when you are using Azure AD Connect, based on your

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Categories

Uncategorized (30)

feasibility from security and compliance perspective you can choose the one appropriate. During Azure AD Connect installation wizard you will have the ability to choose one of the authentication mechanism.

1. Password Hash Synchronization (PHS):

-When we install Azure AD Connect with
"Express Settings" then Password Harsh
Synchronization (PHS) authentication
mechanism is the default configuration.
-AAD Connect synchronizes a hash, of the hash,
of an AD user's password from an on-premises
AD to Azure AD.

-To synchronize user's password, Azure AD Connect sync extracts user's password hash from the on-premises Active Directory. Extra security processing is applied to the password hash before it is synchronized to the Azure Active Directory.

-PHS process runs every 2 minutes and we cannot modify the frequency of this process.

2. Pass-through Authentication (PTA):

-Users credentials are validated by on-premises Active Directory Domain Controller via AAD Connect Authentication Agent, On-premises AD user's passwords are not stored in Azure AD in any form.

-For Pass-through Authentication to work, users need to be provisioned into Azure AD from onpremises Active Directory using Azure AD Connect. Pass-through Authentication does not apply to cloud-only users.

-Communication between Authentication Agent https://cloudsapient.com/azure-ad-connect-lab-setup-step-by-step-guide/

and Azure AD is uses certificate-based authentication. These certificates are automatically renewed every few months by Azure AD.

-Microsoft recommends to have more than one AAD Connect Authentication Agent to provide high availability of authentication requests. -PTA can also be used in conjunction with PHS for high availability scenarios, As per Microsoft *"Enabling Password Hash Synchronization gives you the option to failover authentication if your on-premises infrastructure is disrupted. This failover from Pass-through Authentication to Password Hash Synchronization is not automatic. You'll need to switch the sign-in method manually using Azure AD Connect. If the server running Azure AD Connect goes down, you'll require help from Microsoft Support to turn off Pass-through Authentication."*

3. Federation with ADFS:

-In ADFS federation scenario, Azure AD will be redirecting authentication request to ADFS.

4. Federation with PingFederate:

-If you are already using PingFederate in your environment then you may choose this method for authentication. AAD Connect natively supports PingFederate, please refer below official document from PingFederate regarding implementation of this.

https://support.pingidentity.com/s/article/PingFe derate-Microsoft-Azure-End-to-End-Integration

Azure AD Connect Server Installation:

I have talked about some important concepts theoretically, Now let's go ahead and install the Azure AD Connect server in on-premises ADDS environment.

1. Add Custom Domain (Routable) to Azure AD and make it as a "Primary Domain" for Azure AD:

-Login to Azure portal and go to Azure Active Directory



-Click on "Add custom domain" option.



-I'm adding my routable domain "cloudmegh.in" to Azure AD, Click on "Add domain". Azure AD Connect Lab Setup – Step by Step Guide – A Place where cloud begins....

	Custom domain name	
	Default Directory	
-	* Custom domain name	
-	doudmegn.in	~
FED		
	Add domain	

-Once you add your custom routable domain to Azure AD, it needs to be verified. To verify the domain you need to create TXT record in your domain registrar with below details.

cloudmegh.in	
cloudmegh.in ^{Custom} domain name	
🔟 Delete	
To use cloudmegh.in with your name registrar using the info be	Azure AD, create a new TXT record with your domain elow.
RECORD TYPE	TXT MX
ALIAS OR HOST NAME	@ ()
DESTINATION OR POINTS TO ADDRESS	
πι	3600
Verify	

-My above domain is registered with Godaddy, so I logged into Godaddy console and add TXT record as below. Then I click on "Verify" button above in Azure AD console. In few minutes it will verify your domain information.

Records

Last updated 15-08-2019 18:3	8 PM					
Туре	Name	Value			TTL	
Α	@				600 seconds	Ø
Α	sts				1 Hour	Ø
CNAME	www				1 Hour	Ø
CNAME	_domainconnect			incontrol.com	1 Hour	Ø
NS	@				1 Hour	
NS	@				1 Hour	
SOA	@			7.domaincontrol.co	1 Hour	
тхт	Ø	MS=ms5	7		1 Hour	I
						ADD

-Now my domain is showing as "Verified" in Azure AD console.

+ Add custom domain ひ Refresh ★ Troubleshoot == Columns				
Looking to move an on-premises application to the cloud and use Azure Active D	Directory Domain Services?			2
D Search domains X				
cloudmegh.in	STATUS	FEDERATED	PRIMARY	

-Now I will set my custom domain as "Primary" for the directory, The primary domain is the default domain name for a new user when you create a new user. Setting a primary domain name streamlines the process for an administrator to create new users in the portal.

Home > Default Directory - Custom domain names > cloudmegh.in								
cloudmegh.in Custom domain name								
✔ Make primary 🗴 Delete								
Туре	Custom							
Status	Verified							
Federated	No							
	To configure cloudmegh.in for federated sign-on to your Azure Active Directory, run Azure AD Connect on your local network.							
	Download Azure AD Connect							
Primary domain	No							
In use	No							

Home > Default Director	y - Custom domain nam	es > cloudmegh.in				
cloudmegh.in						
✓ Make primary 📋 D	Delete					
Do you want to make cl	oudmegh.in your prim	ary domain?				
Yes No						
	To configure cl Directory, run	oudmegh.in for federated sigr Azure AD Connect on your loc	n-on to your Azure A al network.	Active		
	Download Azu	re AD Connect				
Primary domain	No					
In use	No					
+ Add custom domain 💍 Refresh	X Troubleshoot 📰 Columns					
Looking to move an on-premises application to the cloud and use Azure Active Directory Domain Services?						
_⊅ Search domains 🗙 🗘	filters					
NAME		STATUS	FEDERATED	PRIMARY		
avii il.onmicrosoft.com		Available				

2. Download and run the Office 365 IdFix tool:

Before we synchronize our on-premises AD to Azure AD, its recommended to run IdFix tool, this tool identifies errors such as duplicates and formatting problems in your AD domain, you can run this tool on domain joined machine or Domain Controller itself.



IdFix Privacy Statement	×
This privacy statement applies to IdFix only. It does not apply to any other Microsoft Office 365 server or other applications by Microsoft Corporation. IdFix is intended for IT Administrators. If you are an end-user, Microsoft recommends that you end this program and contact your IT Administrator for assistance. IdFix collects data from your corporate network and can optionally store data that may contain personal data in a Comma Separated Value (.csv) or LDAP Data Interchange Format (.ldf) file located on the computer where the program was run. Microsoft recommends that you remove this file when you have completed your use of the program. IdFix does not send any collected data back to Microsoft or it's partners.	
ОК	

🔯 IdFix version	1.11							_		×
Office 365			Q	Jery Cancel	Accept	Apply	Export	Import	Undo	0 O
DISTINGUISH	IEDNAME	OBJECTCLASS	ATTRIBUTE	ERROR	VAL	UE	UPD	ATE	ACTIC	N

IdFix version 1.11			-	- 🗆 X
Coffice 365	Query Cancel	Accept Apply	Export Import	Undo 🧔 🕘
DISTINGUISHEDNAME A OBJECTCLASS	ATTRIBUTE ERROR	VALUE	UPDATE	ACTION
Query Count: 72 Error Count: 0				.:

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🛛 🖓 Settings				
Rules	 Multi-Tena Dedicated 	nt		
Filter Port Search Base	((objectCateg	gory=Person)(objectCate <u>c</u>	gory=Groι ∽
Directory	 Active Dire cloudmegl LDAP cloudmegh.in 	ctory h.in		Add Server Domain
Credentials	 Current Other 			User Password
			OK	Cancel

3. Enable AD Recycle Bin:

Microsoft recommends enabling AD Recycle Bin feature in your on-premises AD environment, If you accidentally deleted an on-premises AD user object, the corresponding Azure AD user object will be deleted in the next sync cycle. By default, Azure AD keeps the deleted Azure AD user object in soft-deleted state for 30 days.

I ran below PowerShell cmdlet to enable AD Recycle Bin feature for my AD domain. *Enable-ADOptionalFeature 'Recycle Bin Feature' -Scope ForestOrConfigurationSet -*

Target cloudmegh.in



4. Download and install Azure AD Connect server:

-Now I will go back to Azure portal and navigate to Azure Active Directory console, Go to Azure AD Connect and click on "Download Azure AD Connect" option which will redirect me to below download link.

Azure AD Connect download:

https://www.microsoft.com/enus/download/details.aspx?id=47594



I have downloaded AAD Connect setup on my on-premises Windows Server where I will be installing this. This machine is running Windows Server 2016 OS and joined to my AD domain "cloudmegh.in".



-I ran AAD Connect setup and installation wizard started, click on license terms agreement and then click on **"Continue"** button to proceed further.



-If you want to install AAD Connect with "**Express Settings**" it will install and configure everything with predefined set of configuration as shown in below snapshot. I'm going with "**Customize**" installation option in my lab. Azure AD Connect Lab Setup – Step by Step Guide – A Place where cloud begins....



-I'm leaving below option to default (unchecked),
you may specify the options as appropriate in
your environment. I clicked on "Install" button
to proceed with AAD Connect server installation.

Microsoft Azure Active D Welcome Express Settings Required Components User Sign-In	Install required components No existing synchronization service was found on this computer. The Azure AD Connect synchronization service will be installed Specify a custom installation location Use an existing SQL Server Specify custom sync groups
	Previous Install

It will install and configure the required
 components now, Azure AD Connect requires a
 SQL Server database to store identity data. By
 default a SQL Server 2012 Express LocalDB (a
 light version of SQL Server Express) is installed.

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-Once it completes required components installation/configuration, it will move to below option where we need to choose authentication method for users. I'm choosing **"Password Hash Synchronization"** authentication mechanism. Click on "**Next**" to proceed further.

🔷 Microsoft Azure Active Di	rectory Connect		_ ×
Welcome Express Settings Required Components User Sign-In Connect to Azure AD Sync Connect Directories Azure AD Sign-In Domain/VO Filtering Identifying users Filtering Optional Features Configure	User sign-in Select the Sign On method. Pass-through authentication Pass-through authentication Federation with A DF Pederation with PingFederate Do not configure Select this option to enable single sign-on for you Enable single sign-on	ir corporate desktop users:	
		Previous	Next

-Now we need to provide user credential that will be used to connect to Azure AD tenant, this user should have **Global Administrator** permission on your Azure AD tenant.

Next

Previous

Microsoft Azure Active D	rectory Connect		-
Velcome xpress Settings lequired Components	Connect to Azure AD Enter your Azure AD global administrator creden) tials. 🝞	
Jser Sign-In Connect to Azure AD Sync	USERNAME TestUser@compared componenticrosoft.com		
Connect Directories Azure AD sign-in Donain/OU Filtering Identifying users Filtering Optional Features Configure	PASSWORD		
		Previous	Next
Microsoft Azure Active D	rectory Connect	Previous	Next
Microsoft Azure Active D Velcome xpress Settings	rectory Connect Connect to Azure AD	Previous	Next –
Microsoft Azure Active D Welcome xpress Settings equired Components Iser Sign-In Connect to Azure AD	rectory Connect Connect to Azure AD Enter your Azure AD global administrator creden USERNAME Trett level of frammer and administrator consolit com	Previous	Next –
Microsoft Azure Active D Velcome equired Components Ser Sign-In Connect to Azure AD ync Connect Directories Azure AD sign-in Domain/OU Filtering Identifying users	rectory Connect Connect to Azure AD Enter your Azure AD global administrator creden USERNAME TestUser@@@connectionsoft.com PASSWORD	Previous	Next
Microsoft Azure Active D Velcome Apress Settings Lequired Components Ser Sign-In onnect to Azure AD ync Connect Directories Azure AD sign-in Domain/OU Filtering Identifying users Filtering Optional Features onfigure	rectory Connect Connect to Azure AD Enter your Azure AD global administrator creden USERNAME TestUser@@commerce.com PASSWORD ******	Previous	Next

-Now select AD Forest by clicking on **"Add Directory"** which will be the connected data source for AAD Connect sync.

🚸 Microsoft Azure Active Di	irectory Connect	_ ×
Welcome Express Settings Required Components User Sign-In Connect to Azure AD Sync Connect Directories Azure AD sign-in Domain/OU Filtering Identifying users Filtering Optional Features Configure	Connect your directories Enter connection information for your on-premises directories or forests. DIRECTORY TYPE Active Directory FOREST Cloudmegh.in No directories are currently configured.	

–Once you click on "Add Directory" it will ask you to provide user credentials that should have

minimum below permission for "Password hash sync" to function correctly. Depending upon what features you are using and what installation method permission requirement will change.

Replicate Directory Changes Replicate Directory Changes All

AD forest account		_ ×
AD forest account		
An AD account with sufficient permissions Connect can create the account for you. Al required permissions. Learn more about r	is required for per Iternatively, you ma nanaging account	iodic synchronization. Azure AD ay provide an existing account with the permissions.
The first option is recommended and requ	ires you to enter E	nterprise Admin credentials.
Select account option.		
○ Create new AD account		
• Use existing AD account		
Domain Username		
CLOUDMEGH\aadconnect		
PASSWORD		
•••••		
	OV	Canaal

cloudmegh.in Properties ?					
General Managed By Object Security Attribute Editor					
Group or user names: AADConnect (aadconnect@cloudmegh.in) CREATOR OWNER CREATOR OWNER Authenticated Users CYSTEM		<			
Add Remove					
Reanimate tombstones		^			
Replicating Directory Changes Image: Comparison of the sector of the					
For special permissions or advanced settings, click Advanced.	Advanced				
OK Cancel Apply	He	lp			

-We have now added ADDS Forest

"cloudmegh.in" successfully, click on "Next" to proceed further.

🚸 Microsoft Azure Active D	Microsoft Azure Active Directory Connect _ X				
Welcome Express Settings Required Components User Sign-In Connect to Azure AD Sync Connect Directories Azure AD sign-in Domain/OU Filtering Identifying users Filtering Optional Features Configure	Connect your directories Inter connection information for your on-premises directories or forests. DIECTORY TYPE Active Directory FORES CONFIGURED DIRECTORIES cloudmeghin (Active Directory)				
	Previous				

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-This below page allows us to review the UPN domains present in on-premises AD DS and which have been verified in Azure AD. This allows us to configure the attribute to use for the userPrincipalName.

Note: The attribute *userPrincipalName* is the attribute users use when they sign in to Azure AD and Office 365. The domains used, also known as the UPN-suffix, should be verified in Azure AD before the users are synchronized. Microsoft recommends to keep the default attribute *userPrincipalName*. If this attribute is non-routable and cannot be verified, then it is possible to select another attribute.

Microsoft Azure Active Di	rectory Connect		-
Welcome Express Settings Required Components User Sign-In	Azure AD sign-in configue To sign-in to Azure with the same credentials as your on- required. The following table list the UPN suffixes for you associated Azure AD Domain.	uration -premises directory, a matching Azure pur on-premises environment and the	AD Domain is status of the
Connect to Azure AD	Active Directory UPN Suffix	Azure AD Doma	ain
Sync	cloudmegh.in	Verified	
Connect Directories			Ö
Azure AD sign-in			9
Domain/OU Filtering			
Identifying users			
Filtering			
Optional Features	Select the on-premises attribute to use as the Azure AD	username	
Configure	USER PRINCIPAL NAME 🕜		
	userPrincipalName ~		
	title		
	treeName		
	unicodePwd		
	unixHomeDirectory		
	userParameters		
	userPrincipalName		
	userSharedFolder		
	userWorkstations	Previous	Next
	whenCreated		

-By default all domains and OUs are synchronized. If there are some domains or OUs you do not want to synchronize to Azure AD, you can unselect these domains and OUs.

I have selected specific OU "**LabUsers**" from my AD domain, AD users under this specific OU will only be synchronized to Azure AD, click on "Next"



-I'm leaving below configuration to default ones and proceeding further.

Microsoft Azure Active Di	rectory Connect _ X		
Welcome Express Settings	Uniquely identifying your users		
Required Components	Select how users should be identified in your on-premises directories. 📀		
User Sign-In	Our Users are represented only once across all directories.		
Connect to Azure AD	O User identities exist across multiple directories. Match using:		
Sync	Mail attribute		
Connect Directories	ObjectSID and msExchMasterAccountSID/msRTCSIP-OriginatorSID attributes		
Azure AD sign-in	SAMAccountName and MailNickName attributes		
Domain/OU Filtering	A specific attribute		
Identifying users	✓		
Filtering			
Optional Features	Select how users should be identified with Azure AD. 👔		
Configure	Let Azure manage the source anchor		
	O Choose a specific attribute		
	Azure will write back unique source anchors to your on-premises directory if mS-DS- ConsistencyGuid is currently unused by your organization. Learn more		
	Previous Next		

-I'm not configuring any sync filtering at the moment.

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💠 Microsoft Azure Active D	Directory Connect	_ ×
Welcome Express Settings Required Components User Sign-In Connect to Azure AD Sync Connect Directories Azure AD sign-in	Filter users For a pilot deployment, s groups are not supported © Synchronize all users : > Synchronize selected FOREST cloudmegh.in	s and devices specify a group containing your users and devices that will be synchronized. Nested and devices GROUP Enter a name or DN of a group Resolve
Domain/OU Filtering Identifying users Filtering		
Optional Features Configure		
		Previous Next

-Now we have some **"Optional features"** of Azure AD Connect that we can enable based on scenario and requirement, I'm enable **"Password Writeback"** feature which is important in hybrid environment where Azure AD is connected to an on-premises ADDS environment, this scenario can cause passwords to be different between the two directories if users changes the password using Azure AD portal. By enabling password writeback, password changes that originate in Azure AD is written back to your on-premises directory.

-It will take few minutes to complete the configuration.

-Finally the installation and configuration of AAD Connect has completed successfully and synchronization process has also been initiated. -After completion of Azure AD Connect installation and configuration, if you want to see the existing configure or would like to modify something, you need to open "Azure AD Connect" console and review it.

-If you click on **"View current configuration"**, it will show you your existing your existing synchronization settings and features enable in your AAD Connect.

If you open "Synchronization Service
Manager" you can see what's happening with
AAD Connect sync engine from synchronization
perspective and if there are any errors.

-You can also stop the sync run manually if needed from here.

Verify user sync from Azure AD console:

-Since synchronization process was already initiated above, let's go back to Azure AD console

and see if objects were synchronized successfully.

-Yes, I can see users from source "**Windows Server AD**" in my Azure AD tenant which confirms sync process was able to synchronize the users successfully.

–We can sync status and last sync details as well from here to validate when did the last sync happen.

I will continue to explore other capabilities in Azure AD in hybrid identity scenario and will cover it in next post. ← Azure Kubernetes Service (AKS) – Part 2

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