



Admin guide for setting up GALSync



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1 About this guide

1.1 Audience

This guide is aimed at system administrators who are capable of connecting to remote systems such as G Suite for Business and Office 365 Admin Panel. GALSync is usually a detailed setup that requires a high level of competence and experience with mail systems and directories.

Although we provide support for our own products, we do not provide support for third party products such as PowerShell or server administration of Google or Exchange.

If you are concerned you might have any difficulty completing these steps, please consider a solution with our consulting team, contactable via <u>sales@cloudiway.com</u>. This will ensure a fast, cost-effective and stress-free implementation.

1.2 Using this guide

This guide provides steps for setting up GALSync using the Cloudiway platform, as well as details of any remote system configuration required.

The screen dumps used in this guide reflect these business names to provide typical examples of data to enter into each field.

Whitepapers and guides covering Cloudiway's other products, such as general mail migration, are available from the Cloudiway website (<u>www.cloudiway.com</u>).



2 Introduction

2.1 What is GALSync?

GALSync stands for Global Address List Synchronization.

The goal of a GAL Synchronization solution is to synchronize users, groups and contacts from one source messaging system with contacts objects in another messaging system. It allows automatic updates between global address lists to ensure they remain synchronized.

GALSync works between multiple address books through a simple configuration online, which sends pull requests to other address books and pushes the changes to the targets.

2.2 Features

The GALSync engine is hosted on the Cloudiway platform, it's a SAAS application. Address books of Cloud messaging systems can be synchronized without requiring to install anything.

- Filter by domain: You can select the domain Names that you want to synchronize.
- Filter by object type: You can select to synchronize only users, groups or contacts
- Preview: A preview mode is available to visualize and validate the changes before pushing them to the targets
- Attribute selection: The schema is open and extensible. Any attribute present in the source can be synchronized without coding.
- Automatic schedule: Once the rules are in place and working correctly, you can schedule the execution and run it automatically at the time of your choice.
- Logs: Execution logs are available to keep track of the errors and changes.

2.3 Supported Systems

- G Suite
- Office 365
- Exchange on premises (2007 and >)
- Possibility of Lotus Notes.

Note: On Premises environments require a local agent to be running.



3 Security

We take your privacy and security seriously at Cloudiway, and we have invested significant effort into making our platform and your data secure. Cloudiway provides a cloud-based application hosted in Windows Azure. It means that the software and data are centrally hosted and accessed by clients using a web browser and internet connection. In addition, Cloudiway's SaaS benefits from Windows Azure's certifications, ensuring security of the infrastructure, network and physical security layers of the Cloudiway cloud.



4 Set up Cloudiway for GALSync

4.1 Before you start

Before you start, please ensure you have the details outlined in the following table.

Name	Description	Location
Cloudiway login	Stores details and provides communication between the systems you already use.	https://apps.cloudiway.com
Knowledge base access	Our extensive knowledge base is always accessible, with videos, troubleshooting tools, samples and more.	http://kb.cloudiway.com

4.2 Cloudiway contacts

GALSync setup might require assistance of our consulting team.

Should you need help, please drop an email to <u>services@cloudiway.com</u> with <u>sales@cloudiway.com</u> in cc.

4.3 Service Accounts Creation

This chapter explains how to create the service accounts in order to synchronize G Suite, Office 365 and on Premises Exchange servers

4.3.1 On Premises Exchange service Account

When you synchronize to or From an On Premises Exchange server, it requires a local agent.

The agent runs with the identity of the logged on user.

If you are using the On Premises environment as a source connector, all you need is an Active Directory account with ReadOnly access to the objects or organizational Units that will be pulled.

If you are using the On Premises environment as a target connector, the read/write operations are performed using Exchange Powershell commands under the identity of the account that has launched the local agent. This account needs Exchange admin priviledges and the authorization to run Powershell commands.





4.3.2 Office 365 Service account

The GalSync connector requires an Office 365 tenant admin account.

The reason is that Powershell msol cmdlets commands are run (Get-MsolUsers, etc...)

Running these powershell commands require to be admin of the tenant.

4.3.3 Gsuite Service Account

This article describes how to create a service account for G Suite:

http://kb.cloudiway.com/how-to-create-an-admin-account-for-google-migration/

In particular, the service account needs the permissions for the following feeds:

https://www.googleapis.com/auth/admin.directory.user, https://www.googleapis.com/auth/admin.directory.group, https://www.googleapis.com/auth/admin.directory.orgunit, https://www.googleapis.com/auth/admin.directory.userschema, https://apps-apis.google.com/a/feeds/user/, https://apps-apis.google.com/a/feeds/groups/, https://apps-apis.google.com/a/feeds/policies/, https://www.google.com/m8/feeds/, https://www.googleapis.com/auth/admin.directory.user.readonly, https://apps-apis.google.com/a/feeds/alias/

4.4 GALSync Setup

The following chapter shows how to setup GalSync between Gsuite, office 365 and On Premises environments.

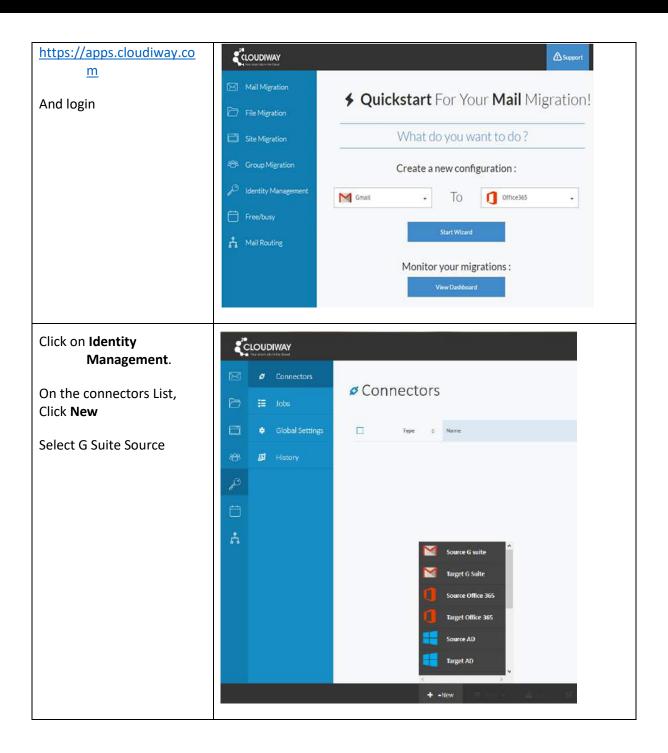
Connectors are mono-directional.

To setup a synchronization between G Suite and Office 365, you need to create a source and a target connector of each type.

4.4.1 Setup of a source G Suite connector

|--|





www.cloudiway.com



Give a name to your connector and click Create	+ Create connecto	(♥ CGSuite
	Marm Suchi Source	Cancel Create
In Main settings, fill the required fields.	Last synchronized: 2017-11-12009:15 Main Hillings Danein maxing Recorditationnules At Account settings	tribute meeting Pulling filters Provisioning Rules
Administrator: the name of an account that will be impersonated.	roctgelinfo.tr war Died of Amerikan and Normania Service account email Service representation of the Amerikan Service account.com	eln(s) msuch.com ce account certificate strivels-cite/stra.p12 Riverse file with extention .p12 are accepted
Service Account Email and service Account Certificate: See the above chapter to see how to create the service account	Uny	nie with extensionpix are accepted.
Domains: the domains to pull.		
Click on Verify. This will validate that the settings are correct	Last synchronized : 2017-11-13/09/28 Main settings Domain mapping Reconcilation rules Account settings Administrator rootsetlinfo.fr	Attributemacoing Pulling filters Prov
	Enxit af denait samistanske Service account email sylvaing-cloudhwaylab.lam.gserviceaccount.com 3ervice account email Vent/V	Service account certificate sytvain-cloudiwayiab-7090s446547a.p12 Only file with extention .p12 are accepted
	Verify Verification succeeded	



Synchronization rules. To Enable GALSync, activate Pull Users as Contacts and Pull Groups as contacts (if you wish to synchronize groups as well).	Synchronization Rules	GFF CVF Synchronize Contacts	OFF ON Synchronize Groups OFF OF Full Groups Contacts
Domain Mapping. Do not make any domain transformations.			
Reconciliation rules. Leave the defaults rules (mail exact match is relevant for messaging systems).			
Attribute Mapping. The default List is sufficient			
Pulling filters. Reserved for later use. Do not set yet any pulling filters. In a next version, you will be able to synchronize members of a specific group. Today, only filtering by attribute value is active. No rules means that all objects are synchronized.			
Provisioning rules. This tab will be filled later.			

4.4.2 Setup of a target G Suite connector.

Repeat the above procedure but this time, select a target Gsuite Connector.



	Create connector GSUITE
Source G suite Target G Suite Source Office 365 Source AD Target AD New	Varm Suchi Target
Activate the GALSync and select to create use Also Enable the synchronization of contacts	rs as contacts.
	Inchronize Groups OFF ON Synchronize Groups Members
Deletion rule	•
Password management OFF ON Synchronize Password OFF ON Pa	Assword Never Expire OFF ON Strong password policies

The rest of the configuration is identical to the previous step.



4.4.3 Setup of a source Office 365 connector

Let's now create the source Office 365 connector

 Source G suite Target G Suite Source Office 365 Target Office 365 Source AD Target AD + -New 	Drypizza Source	Cancel Create
nter the credentials for the Off elect Pull Users as contact (this	ice 365 connector. actually activates the GALSync).	
elect Pull Users as contact (this Administrator adm@drypizza.com	actually activates the GALSync).	¥
elect Pull Users as contact (this	actually activates the GALSync). Password *	¥
elect Pull Users as contact (this Administrator adm@drypizza.com Email of domain administrator	actually activates the GALSync).	~
elect Pull Users as contact (this Administrator adm@drypizza.com Errat of domain administrator Domain(s)	actually activates the GALSync).	~



Main settings	Domain mapping	Reconciliation rules	Attribute mapping	Provisioning Rules
Account settings				
dministrator		Password	•	
adm@drypizza.com				~
Email of domain administrator Bomain(s)		Password of d	amain administrator	
drypizza.com				
		+		
	Venty			
	1973) 1973			

4.4.4 Setup of a target Office 365 connector

Let's now create the target Office 365 connector.

Repeat the above step by selecting a target Office 365 connector.

Source G suite	 Create connector office 365
Target G Suite Source Office 365 Target Office 365 Source AD Target AD	Connector name Drypizza target Cancel Create
Clikc on Verify to validate your settings.	





	Domain mapping	Reconciliation rules	Attribute mapping	Provisioning Rules
Account settings				
Iministrator		Passwor	d *	
adm⊛drypizza.com				
nall of domain administrator		Password a	f domain administrator	
omain(s)				
drypizza.com				
		- +		
	Venty			
ect Synchronize (GAL and Create as	s Contact		
not set the other	r fields since we ar	re not going to pro	vision users	
not set the other	fileids since we di	e not going to pre	vision users.	
ynchronization Rul	0.e			
ynchi omzation Kur	es			
OFF ON Synchronize Users	OFF	ON Synchronize Groups		ynchronize Contacts
Synchronize GAL	OFF	ON Synchronize Groups Men	nbers	
reate as Contact				
	Dulas			
	Rules			
Creation & Deletion	Rules			
Creation & Deletion	Rules			
Creation & Deletion	Rules			*
Creation & Deletion				•
Creation & Deletion				*
Creation & Deletion	ent	Password Never Empire		
Creation & Deletion	ent	ON Password Never Expire	OFF ON S	* trong password policies
Creation & Deletion Nettion rule	ent vord	ON Password Never Expire	CH) (10	
Creation & Deletion Eletion rule Password manageme	ent vord	ON Password Never Expire	OFF ON S	
Creation & Deletion eletion rule Password manageme	ent vord		OFF ON S	
Creation & Deletion Retion rule	ent vord			
Creation & Deletion Retion rule	ent vord	Default u	sers license	
Creation & Deletion eletion rule Password managemen OFF ON Synchronize Passw License managemen afault location	ent vord		sers license	
Creation & Deletion eletion rule Password managemen OFF ON Synchronize Passw License managemen afault location	ent vord	Default u	sers license	

The connectors are now created.

4.4.5 Provisioning configuration



The final step is to configure the provisioning.

We want the G Suite source connector to provision the target office 365 connector and vice-versa.

Warm Suchi Sou	rce		Groupe Cr	ontacta Usera Configuratio
(Source Connect	tor)			
st synchronized : 2017-11-13.09:32	Deconsiliation when	Atteinutementing	Pulling filters	Dro. Ationing Dubre
st synchronized : 2017-11-13.09:32 Main settings Domain m	napping Reconciliation rules	Attribute mapping	Pulling filters	Provisioning Rules
Main settings Domain m	Reconciliation rules	Attribute mapping Attribute mapping Attribute mapping	-	Provisioning Rules Provisioning rules
		Allow Deprovisioning in	-	· · · · · ·

Edit the source (Office connecto	r and allow it to	provision the targ	et G Suite co	onnector
Ø Drypizza s (Source C				Groups	Contracts Users Configuration
Last synchronized : 2017-11 Main settings	-13 10:06 Domain mapping	Reconciliation rules	Attribute mapping	Pulling filters	Provisioning Rules
Allow Provisioning in	IA	low Modifications in	Allow Deprovisio	ning in	Provisioning rules
OFF ON Warm Su	ichi Target	OFF ON Warm Suchi Tar	rget OFF ON	Warm Suchi Target	Warm Suchi Target
OFF ON Drypizza	target	огг ом Drypizza target	t OFF ON	Drypizza target	Drypizza target

Your configuration is now completed.

It's now time to test it.



5 Test your Address List Synchronization

A full synchronization cycle is a three step process:

- Pulling of the sources.
 - This pull every connector and stores the objects in an internal cache (connector caches).
- Reconciliation
 - It updates the connector caches.
 - You can visualize the changes, changes (creation, modifications, deletions) that are ready to be exported.
- Export to target
 - This writes the changes to the tenants.

5.1 Pull the connectors

In the connector List, select all the connectors and Click Pull					
۵	Ę	CLOUDIWAY			II Beityne.
	•	Warm Suchi Warm Suchi	ø Co	nnecto	ors
	٠	Drypizza sou		Type :	Name
*	۵	Drypizza tar	68	a	Deguta navo
P			68	a	Representation of the second sec
			8	м	went Sath Same
			R	M	Next Safe Sept
Å					
				+ shini	B Chier - 🛆 Pull 💋 Records 👘 🖉 Force (grove - 🗘 Rafresh
Click	on	Confirm.			



📥 Pull	connector	5	8				
Please confirm tha Drypizza source Drypizza target Warm Suchi Sou Warm Suchi Tar	urce .	nectors:					
		Cancel Confirm					
vitch to the Jol	b List view to r	monitor the ex	ecution of your tasks				
Connectors							
	▲IAM / Joi	bs List					
🖄 🔠 Jobs	Abbit						
	- Andrew						
Global Settings	Start Time	• Type	= Connector Name		e Status	a Duration	2
and the second	2017-11-13 10:13	Puti ID : 18894			Queued		
83 💋 History	2017-11-13 10:13	Pull ID : 16893			Queued		
م	2017-11-13 10:13	Pull ID : 18892			Queued		
	2017-11-13 10:13	Pull ID : 18891			Quinted		
8	2017-11-13 09:30	VerityConnectorConfigurati	on ID : 18876		Completed	a few seconds	
	2017-11-13 09:28	VentyConnectorConfigurati	on 10 : 18875		Completed	a few seconds	
Å						10 J. 200	200
IAM / Job Job List	s List						
Start Time	- Туре		Connector Name	٥	Status 🗧	Duration	0
2017-11-13 10:15	Pull ID : 18892		Dryptzza source (Source)		Completed	a few seconds	
2017-11-13 10:13	Pull ID : 18894				Queued		
2017-11-13 10:13	Pull ID ; 18893				Queued		
2017-11-13 10:13	Pull ID : 18891		Drypizza target (Target)		Completed	a few seconds	
2017-11-13 09:30	VerifyConnectorCon	figuration ID: 18876			Completed	a few seconds	
2017-11-13 09:28	VerifyConnectorCon	riguration ID : 18875			Completed	a few seconds	
						50 100	200



Start Time	Туре	Connector Name	Status	0	Duration =
2017-11-13 10:25	Pull ID : 18896	Warm Suchi Target (Target)	Completed		a few seconds
2017-11-13 10:16	Pull ID : 18893	Warm Suchi Source (Source)	Completed		a few seconds
2017-11-13 10:15	Pull ID : 18892	Drypizza source (Source)	Completed		a few seconds
2017-11-13 10:13	Pull ID : 18891	Drypizza target (Target)	Completed		a few seconds
2017-11-13 09:30	VerifyConnectorConfiguration ID: 18876		Completed		a few seconds
2017-11-13 09:28	VerifyConnectorConfiguration ID : 18875		Completed		a few seconds

5.2 Reconcile

In the connector list, select the connectors and click on Reconcile

ø Co	nnecto	ors					
•	Type 🏻 🌣	Name					
	٥	Drypizza source					
	٥	Drypizza target					
	M	Warm Suchi Source					
	M	Warm Suchi Target					
			2 Kar-	-	10.2		** * * **
	+ ⊾ New	🗐 Clear 🔺	📥 Pull	🛱 Reconcile	🖄 Excert	👂 Force/Ignore 🔺	💠 Refresh



Reconcile changes	×
Please confirm that you want to reconcile changes. This operation will transfer all changes seen in the cached source connector(s) to the cached target connector(s). No operation will be performed in external systems.	
Cancel Confirm	

Click on **Confirm** to start the Process.

You can visualize the results of the reconciliation in the connectors.

ø	Warm Suchi			Groups Contacts Users
=	Warm Suchi	✓ Warm Suchi Target (Target Connector)		
٠	Drypizza sou	(
ø	Drypizza tar	Display Name	Login Name	\$ State
		adm2	adm2@dryptzza.com	ø 🙆 o
		Amnésie	AMNESIE@DRVPIZZA.COM	a 🙆 o
		Bob Owen	BOB(sDRYPIZZA, COM	ø 🙆 o
		Chioe Page	CHLOE@DRYPIZZA.COM	ø
		Dry Pizza Admin	ADM@DRYPIZZA.COM	ø 🙆 o

If everything is correct, you are now ready to export the changes.

5.3 Export

Select the target connectors and click on **Export**



ø Co	nnec <mark>t</mark> o <mark>i</mark>	ſS									
	Type 👳	Name							*	Direction	÷
	a	Dryptzza source									
Ø	0	Dryptzza target									
		Warm Suchi Source								鉛	
	M	Warm Suchs Target								ß	
									30 3	25 50	100.
	+ «New	🛢 Clear 🗚	📥 Pul	🛱 Reconcile	🙆 Export	🤌 Force/Igno	с . ¢	Refresh			Coul
	ظEx	port co	onne	ectors		8					
Ple	 Drypizza tar Warm Suchi 		to expo	rt following c	connectors:						

Click on confirm.

Your GALSync synchronization is now completed.

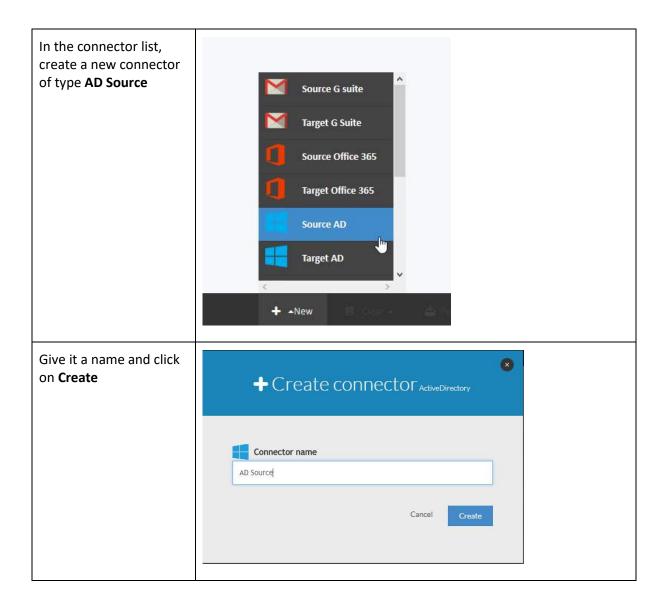


6 Specific scenario: On premises Active Directory

6.1 OnPrem Active Directory as source

If you have an On Premises Exchange environment, objects are stored in the Active Directory

You can create an Active Directory source connector to pull the users, groups and contacts and sync them in the targets of your choice



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Fill the required fields.	Ø AD Source	Groups Contacts Users Configuration
Username / password must be a single user that has permissions to read the organizational units that you have selected	(Source Connector) Letsynchronibed: 2017-11-13 1351 Mainestings Domain meaoing Reconcilation rules 4 Account settings Domain Name 5 cloudwey.leb Port 5 389 Netbios Name 5	Attribute mapping (Putling Afters) Previsioning Rules) Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsioning Rules Previsi
	2	assword *
Synchronization rules	Synchronization Rules	
Enable Synchronize contacts.	OFF ON Synchronize Users OFF ON ON OFF ON Pull Users as Contacts (Calisync) OFF ON Selection by OU	Synchronize Groups OFF ON Synchronize Contacts
Enable Pull Users as Contacts	OFF ON Selection by Group Pulling GroupName	
By default, all the users of the AD are synchronized.		
You can select to pull specific Organizational units (Selection by OU) or members of a Given Group (Selection by Group)		

The configuration is now completed.

Now you need to download the local agent and its configuration file and run it locally from a member server.

In the connector configuration, at the bottom of the configuration, there are 2 links to download the local agent.



Synchronization Rules		
OFF ON Synchronize Users	OFF ON Synchronize Groups	OFF ON Synchronize Contacts
OFF ON Pull Users as Contacts (Galsync)		OFF ON Full Sync
OFF ON Selection by OU		
OFF ON Selection by Group		
Active Directory agent:		
Active Directory agent: Application Configuration.json		
The json config file should be downloaded in the same folder a	is the agent application.	
	🗙 Cancel 🖌 Save	• Refresh

6.2 OnPrem Active Directory as target

The Cloudiway SAAS platform also allows to provision On Premises Active Directory.

In the connector list, create a new connector of type Active Directory Target	Source G suite
	Target G Suite
	Source Office 365
	Target Office 365
	Source AD
	Target AD
	+ •New

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Give it a name and click on Create	Create connector ActiveDirectory
	AD Target Connector name Cancel Create
Fill the required fields. Username / password must be a single user that has permissions to read the organizational units that you have selected	Image: Control Image
Enable Synchronize GAL Enable Synchronize Contacts	Kangan ding ding ding ding ding ding ding din

The target AD connector works differently from the other.

Provisioning actions are written in powershell and you have the control and ability to modify it. It's using Exchange powershell to manipulate objects.

Below is an example of provisioning script.

Please contact our consulting team to get a complete working script.



```
{
               $err = "Error: Name is not provided : " + $UTFDecoded
               return $err
       }
       $FirstName = GetAttributeValue $Attributes "FirstName"
       $LastName = GetAttributeValue $Attributes "LastName"
       $DisplayName = GetAttributeValue $Attributes "DisplayName"
       $Alias = GetAttributeValue $Attributes "Alias"
  $externalEmailAddress = GetAttributeValue $Attributes "mail"
       $country = GetAttributeValue $Attributes "country"
       $City = GetAttributeValue $Attributes "City"
  $Department = GetAttributeValue $Attributes "Department"
  $State = GetAttributeValue $Attributes "State"
  $Office = GetAttributeValue $Attributes "Office"
       if (!$LastName)
       {
               $LastName = $null
       }
       if (!$firstName)
       {
               $firstName = $null
       }
  Write-Host "FirstName = $FirstName , LastName = $LastName , DisplayName = $DisplayName ,
Alias= $Alias"
       $ADGuid = new-MailContact -Name $Name -DisplayName $DisplayName -
OrganizationalUnit $OrganizationalUnit -DomainController $DCName -FirstName $FirstName -
LastName $LastName -externalEmailAddress $externalEmailAddress -alias $Alias
       Write-Host "after new-MailContact $($ADGuid.Guid)"
       #Set-MailContact -identity $Name -HiddenFromAddressListsEnabled $true -
DomainController $DCName
  # Now set additional attributes
  if (!$country)
       {
               Set-Contact -identity $Name -city $City -Department $Department -state $State -
office $Office -DomainController $DCName
       }
  else
  {
    Set-Contact -identity $Name -city $City -Department $Department -state $State -office $Office
-country $country -DomainController $DCName
  }
       #return the AD Guid.
write-host $ADGuid.Guid
```



}

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return \$ADGuid.Guid



7 Automatic schedule

When everything is up and running, you can schedule the synchronization to run every x hours.

Click on Global Settings.

Ø Connectors	
🗄 Jobs	IAM / Global Settings / Edit
🔹 Global Settings	Run Settings Attribute Precedence
蹭 History	Automatic runs hour period
	Expressed In hours, 0 means never Automatic runs pull targets period
	🛇 Cancel 🖌 Save

Schedule it to run every 24 hours. (It's usually sufficient to run one sync per day).

Typical configuration:

- Automatic run period : 24 hours.
- Automatic Pull Targets : 1
 - This will ensure that target connectors are pulled at each pass.
 - In large environments, Cloudiway might advise you to pull the targets every n passes.



8 Troubleshooting

Cloudiway provides an extensive knowledge base with many resources, including common error messages, video guides and downloads.

Please visit the knowledge base here (where you can search for keywords or read through topics): http://kb.cloudiway.com/

The knowledge base also contains information on how you can ask for further support, should you require it.