



# Configuration Guide for Active Directory Integration

## Workspot Active Directory Integration

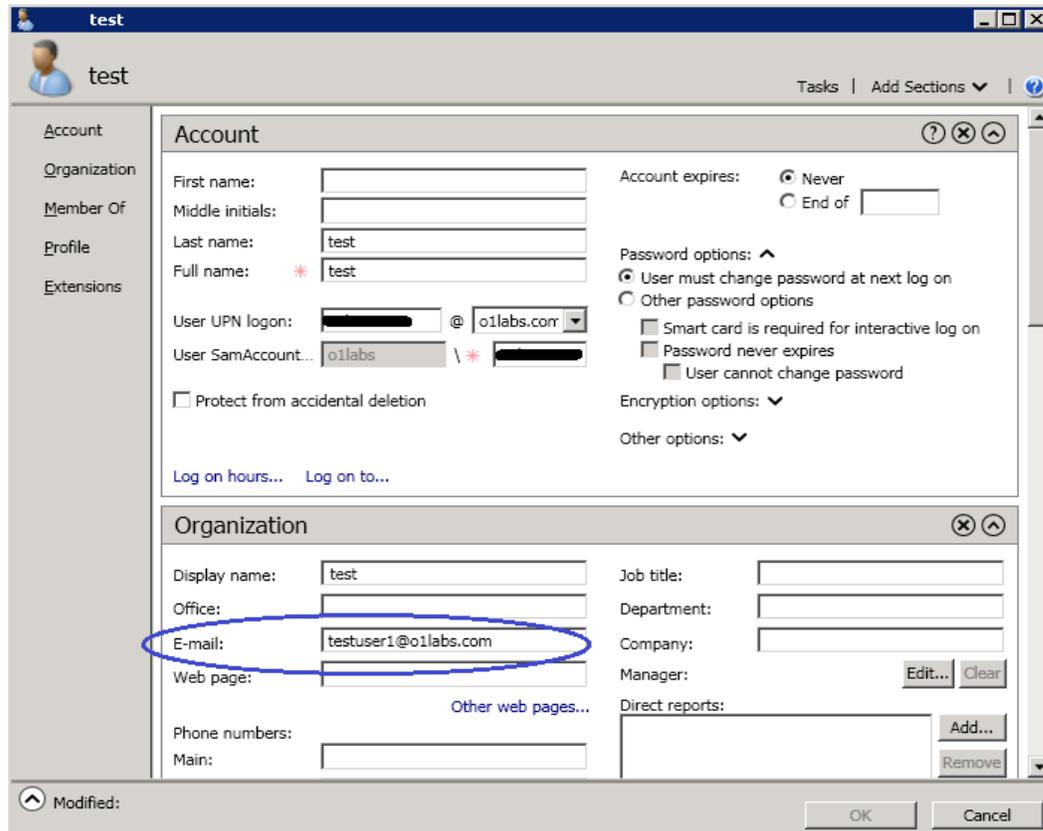
The Enterprise Connector provides synchronization between an on-premise Active Directory (AD) server and Workspot Control. Existing user account changes in AD are automatically propagated to Control. Domain users that are deleted or disabled in AD will be reflected in Workspot Control with the current status, which allows the Workspot Control admin to take the appropriate action. New domain users must be added manually or self-registered in Control.

The Enterprise Connector is software that runs as a service on a Windows Server; account credentials are stored encrypted on the local disk of the Server. In the synchronization process, the AD user object GUIDs are stored in your corporate Workspot Control account.

### Prerequisites

1. Workspot Enterprise Connector installed and configured. For more information, see the *Installation Guide for the Workspot Enterprise Connector*.
2. Active Directory server (Windows Server 2008 R2 or higher).
3. AD domain users with email addresses configured in AD that match the users' email in Control, see example below.

### User's Account in AD



## User's Account in Control

	First Name	Last Name	Email	Role	Status	Devices	Group	AD Status
<input type="checkbox"/>	Tester	Alias	testeralias@o1labs.com	End User	New User		Default User Group	Active
<input type="checkbox"/>	Tester	Tester (O1labs)	testertester@o1labs.com	Administrator	New User		Default User Group	Active
<input type="checkbox"/>	Test	Alias	testalias@o1labs.com	End User	New User		Default User Group	Active
<input type="checkbox"/>	Test	User1	testuser1@o1labs.com	End User	New User		Default User Group	Active
<input type="checkbox"/>	TEST	USER1234	test1234@o1labs.com	End User	New User		Default User Group	Active

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- From the Enterprise Connector server, port 389 (or other LDAP port) opened to the AD servers.
- The service account used for the Enterprise Connector configured with permissions as detailed in the following section.  
Note: For multiple domain support, the service account requires the same permissions in each domain.

### Setting permissions for the service account

Permissions for the EC service account should be configured as follows:

- On the domain controller, login as a domain administrator and create a new domain user for the EC service account.
- Open Command Prompt in **Run as Administrator** mode. In the following example, *dc=o1labs,dc=com* is base DN for the domain and *WSECservice* is the EC service account.  
Note: If the output of the `dscls` commands shown below is **"The command failed to complete successfully"**, check the parameters. Otherwise if successful, the output results in **"The command completed successfully"**.
- Add Replicating Directory Changes to the EC service account:

```
> dscls "dc=o1labs,dc=com /g" "o1labs\WSECservice:CA;Replicating Directory Changes"
```

4. Add Replication synchronization to the EC service account:

```
> dscls "dc=o1labs,dc=com" /g "o1labs\WSECservice:CA;Replication
synchronization"
```

5. Add the List Contents and Return Property Deleted Object permissions:

```
> dscls "cn=deleted objects,dc=o1labs,dc=com" /takeownership
```

6. Then grant permissions for the EC service account as follows:

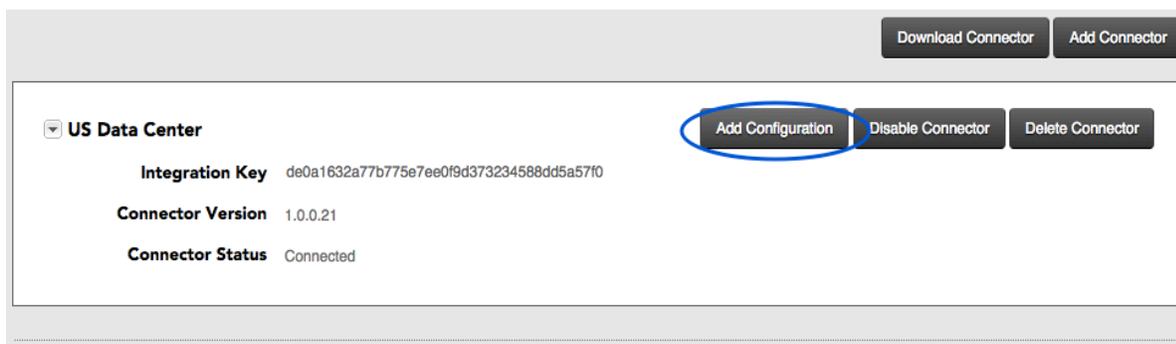
```
> dscls "cn=deleted objects,dc=o1labs,dc=com" /g
o1labs\WSECservice:LCRP
```

For more information on Dsacls see <https://technet.microsoft.com/en-us/library/cc771151.aspx>. For more information on Replicating Directory Changes and Replication synchronization permissions, see <https://technet.microsoft.com/en-us/library/hh296982.aspx>

### Configuring Active Directory integration

1. Go to **Company > Connector (Beta) > Add Configuration** under the appropriate Enterprise Connector config.

Note: This is an optional feature, if you do not see the Connector (Beta) tab, please contact <mailto:support@workspot.com>



2. Select **Active Directory** as the **Configuration Type**.  
Select **Yes** radio button to enable deleted/disabled user sync.  
Click **Save**.

## Add Connector Config

**Add a Configuration for the " US Data Center" Workspot Connector**  
 This will connect Active Directory and Nutanix Prism integration to the Workspot Connector

\* Name

\* Configuration Type

Sync Deleted and Disabled Users  Yes  No i

Secured Connection  i

- Go to the **Users** page, and the AD status column will reflect the current status of the users' account in AD. Click the column header to sort by status.

Control								
Company		Users	Apps	Networks	Policies	Reports	Events	Search
Users (5)		Groups (1)	Roles	Add User	Delete Users	Upload CSV File	Invite All New Users	
First Name	Last Name	Email	Role	Status	Devices	Group	AD Status	
<input type="checkbox"/>	Richard	Alias	richard.alias@o1labs.com	End User	New User		Default User Group	Active
<input type="checkbox"/>	Richard	Tester (O1labs)	richardtester@o1labs.com	Administrator	New User		Default User Group	Active
<input type="checkbox"/>	richard	user	richard@o1labs.com	End User	New User		Default User Group	Active
<input type="checkbox"/>	Test	User1	testuser1@o1labs.com	End User	New User		Default User Group	Not Found
<input type="checkbox"/>	TEST	USER1234!	test1234!@o1labs.com	End User	New User		Default User Group	Deleted

## Troubleshooting

If errors occur during installation and setup, see: c:\ProgramData\workspot\setup.txt

If errors occur while the connector is running, see the log file in: C:\Program Files\Workspot\_Enterprise\_Connector\log

In Workspot Control, if a user's AD Status is *Not Found*, then check in AD if the email attribute has been entered and matches the email in Control.

If a user's AD Status is *Deleted*, then the user's account should be reviewed whether appropriate to be deleted from Control, then select the checkbox next to the user's name and click the **Delete Users** button.