

# Automatically Fetch User Accounts without Manually Importing for JumpCloud

## JumpCloud

### Introduction

JumpCloud allows you to automate user account creation and syncing **without manual CSV uploads** by integrating with external identity sources like **Active Directory, OneLogin, Okta, Azure AD, or APIs**.

### Automatic User Provisioning in JumpCloud

Automatic provisioning means **creating and updating user accounts in JumpCloud from another source system** (e.g., your Identity Provider or directory service) using SCIM or other integrations — **no spreadsheets, no forms, no manual steps**.

Source System	Integration Type	Description
<b>Active Directory (AD)</b>	AD Sync Agent	Syncs users/groups from AD to JumpCloud
<b>OneLogin / Okta / Azure AD</b>	SCIM Connector	Push users via SCIM to JumpCloud
<b>Google Workspace / HR System</b>	API Script (custom)	Use API to fetch users and sync to JC

## Option 1: Active Directory (AD) Sync

### Description:

Use JumpCloud's **AD Sync Agent** to connect your on-prem Active Directory to JumpCloud.

#### What It Does:

- Automatically fetches users and groups from AD into JumpCloud.

- Keeps user profiles updated.
- Supports password sync and group assignments.

## Steps:

1. **Install the AD Import Agent:**
  - Log in to JumpCloud Admin Portal.
  - Navigate to **Directory Integrations** → **Active Directory**.
  - Download the **AD Import Agent**.
  - Install it on your Domain Controller or a Windows server joined to the domain.
2. **Install the AD Sync Agent (optional for write-back):**
  - If you want to sync changes from JumpCloud to AD (two-way), install the Sync Agent too.
3. **Register the Agents:**
  - During installation, provide the **JumpCloud API key**.
  - Approve the agent from the JumpCloud admin dashboard.
4. **Set Up AD Group(s) for Sync:**
  - Create an AD security group (e.g., JumpCloudSyncUsers).
  - Add AD users to this group. Only members will sync.
5. **Configure OU and Attribute Settings:**
  - Specify which Organizational Units (OUs) to include.
  - Map attributes like email, phone, title, etc.
6. **Test and Enable Sync:**
  - Run a test sync.
  - Review previewed user data in JumpCloud.
  - Enable production sync.
7. **Monitor Sync:**
  - Use the AD Integration logs in JumpCloud to monitor status.

## Option 2: SCIM-Based Provisioning from OneLogin, Okta, Azure AD

### Description:

If you're using a cloud identity provider, you can **push users into JumpCloud** using SCIM.

#### What It Does:

- Auto-creates users in JumpCloud.
- Syncs attribute updates (name, email, etc.).
- Suspends users when removed from the source.

### Steps:

- 1. Prepare JumpCloud SCIM Settings:**
  - In JumpCloud Admin Portal, go to **SSO Applications** → **+ Add App**.
  - Choose **Custom SCIM Connector**.
  - JumpCloud provides:
    - **SCIM Base URL**
    - **Bearer Token** (API key)
- 2. Configure SCIM in IdP (e.g., OneLogin/Okta):**
  - Create a new SCIM app integration.
  - Enter the SCIM Base URL and Token provided by JumpCloud.
  - Set the SCIM version to **2.0**.
- 3. Define Provisioning Rules:**
  - Choose what triggers user creation (e.g., role membership).
  - Assign the app to users or groups.
- 4. Enable SCIM Provisioning:**
  - Turn on auto-provisioning in your IdP.
  - Confirm SCIM connection test passes.
- 5. Sync Begins Automatically:**
  - Users assigned in IdP are instantly created/updated in JumpCloud.
  - No manual intervention required.

## Option 3: Custom Script Using JumpCloud API

### Description:

If users are stored in another system (like Google Workspace, a database, or an HR app), use **JumpCloud's API** to fetch and sync users automatically.

#### What It Does:

- Programmatically creates users in JumpCloud.
- Can run on a schedule (daily, hourly, etc.).
- Completely hands-free after setup.

### Steps:

- 1. Get JumpCloud API Credentials:**
  - Go to **Admin Portal** → **API Settings**.
  - Copy your **API Key**.
- 2. Write a Script:**
  - Use Python, Bash, or PowerShell.
  - Example logic:
    - Connect to your data source.
    - Format users as JSON.

- Call POST /systemusers or PUT /systemusers/{id}.

### 3. Schedule the Script:

- On Linux: Use cron to run the script hourly/daily.
- On Windows: Use **Task Scheduler**.

### 4. Optional: Log output or push alerts to Slack/email.

Method	No Manual Upload	Real-Time Updates	Deletion Sync
AD Sync	✓	✓	✓
SCIM (IdPs)	✓	✓	✓
Custom API	✓	x (depends on job)	✓

## JumpCloud API

- <https://docs.jumpcloud.com/api/>

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