Automatically Fetch User Accounts without Manually Importing for JumpCloud

JumpCloud

Intoduction

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
Active Directory (AD)	AD Sync Agent	Syncs users/groups from AD to JumpCloud
OneLogin / Okta / Azure AD	SCIM Connector	Push users via SCIM to JumpCloud
Google Workspace / HR System	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	✓	☓ (depends on job)	✓

JumpCloud API

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

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