

Enhancing User Mapping on macOS with Jamf

📅 Updated on 08 Apr 2025 • ⌚ 2 Minutes to read

Cyberhaven provides a solution to improve user mapping on macOS devices which are commonly managed through MDM solutions like Jamf instead of being enrolled in directory services like AD.

If you are using Apple Open Directory, then starting with Endpoint Sensor version 23.08, the Sensor has the capability to map endpoint users to the users in Open Directory based on their email addresses.

To verify that a user's email address is set up in Open Directory, open Terminal and run the following command.

Shell	Copy
<pre>dsccl . -read /Users/\$(whoami) EMailAddress</pre>	

Command Output

```
EMailAddress: foo@example.com
```

```
No such key: EMailAddress
```

Setting up email-based user mapping with Jamf

This solution is recommended for Jamf which is configured to use user email addresses as the username. In this case, you can leverage Jamf to set up an email-based mapping between endpoint users and your user directory service.

NOTE

If your environment uses multiple user identifiers across applications that differ from user email addresses in your MDM solution, you can configure additional fields in the Cyberhaven platform. This enables Cyberhaven to map and correlate the different user identities. Contact [Customer Support](#) to configure these additional mapping fields.

The solution requires you to create a new MDM profile

1. Log into Jamf Pro and navigate to **Computers > Configuration Profiles**. Click **New**.
2. Provide a name to identify this profile and adjust the scope of the deployment.
3. On the left navigation pane of the New Configuration Profile page, click **Application & Custom Settings** and then click **External Applications**.
4. To add Cyberhaven as an external application, click **Add** and select the source as **Custom Schema**.
5. In the Preference Domain field, add `io.cyberhaven.lightbeam`.
6. Click **Add Schema** and add the following JSON schema.

JSON	Copy
<pre data-bbox="149 674 1203 1163">{ "title": "Cyberhaven user mapping schema", "description": "User mapping from Jamf to the endpoint", "properties": { "mdm_username": { "title": "Username", "description": "The Jamf device owner", "property_order": 10, "type": "string" } } }</pre>	

7. In the Preference Domain Properties section under Username, enter **\$EMAIL**.

io.cyberhaven.lightbeam

Use this section to define settings for preference domains available in the repository.



Source

Source to use for the preference domain

Custom Schema



Preference Domain

The name of the preference domain (com.company.application)

io.cyberhaven.lightbeam

Required

Custom Schema

Required JSON Schema to populate configurable properties in the Property List

Edit schema

Remove schema

Preference Domain Properties

Properties to configure for the preference domain

Form editor

Plist preview

Cyberhaven user mapping schema

User mapping from Jamf to the endpoint

Add/Remove properties

Username

The Jamf device owner

\$EMAIL

NOTE

Depending on your Jamf setup, the \$EMAIL variable may need to be changed to \$USERNAME. To verify this, review the computer's "User and Location" information.

8. Click **Save**.

When the custom schema is saved, the following screen is displayed.

← Cyberhaven email-based user mapping with Jamf

Options Scope Show in Jamf Pro Dashboard

Q Search...

General

Application & Custom Settings
1 payload configured

External Applications

External Applications

1 payload configured

io.cyberhaven.lightbeam
Use this section to define settings for preference domains available in the repository.

Application domain io.cyberhaven.lightbeam
Domain to configure

Preference Domain Properties [Form editor](#) [Plist preview](#)
Properties to configure for the preference domain

Cyberhaven user mapping schema
User mapping from Jamf to the endpoint

[Add/Remove properties](#)

Username
The Jamf device owner

SEMAIL

The profile stores the `mdm_username` property within `/Library/Managed\ Preferences/io.cyberhaven.lightbeam`. The Sensor then retrieves this value and maps the field to the user directory service.

To verify that the configuration has been successfully applied to the endpoint, you can either check your MDM logs or the endpoint by running the following command.

```
Shell Copy  
  
defaults read /Library/Managed\ Preferences/io.cyberhaven.lightbeam
```

The output should contain the `mdm_username` variable.

The following is an example output.

```
Plain text Copy  
  
{  
  backend = {  
    "installer_token" = "eyJ.....";  
    url = "https://<your-tenant>.cyberhaven.io";  
  };  
  "mdm_username" = "username@your.domain";  
  version = "2.0.1";  
}
```

Change Log

- Updated on 04/03/2025: Added a note about configuring additional mapping fields.



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