

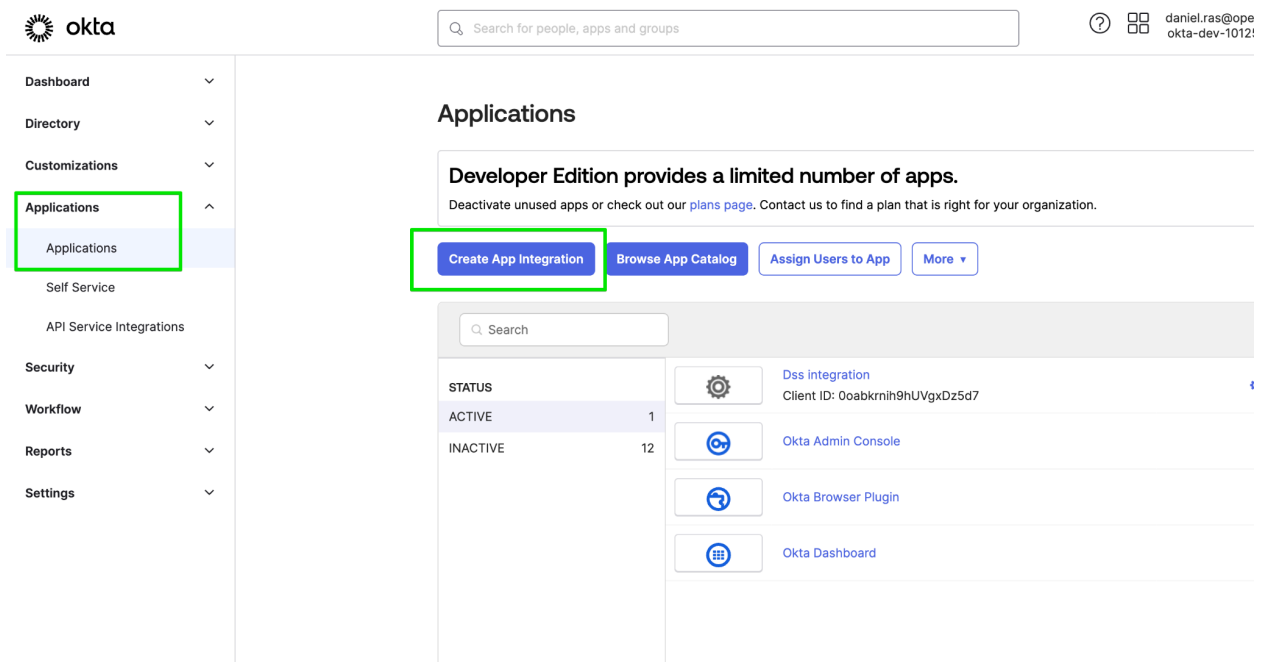
Directory Sync Okta support

This document outlines the configuration process for integrating Directory Sync with Okta.

Okta portal configuration

Create an API app

1. Log in to your Okta account and navigate to **Applications** → **Create App Integration**.



The screenshot shows the Okta Admin Console interface. The left sidebar contains a navigation menu with the following items: Dashboard, Directory, Customizations, Applications (highlighted with a green box), Self Service, API Service Integrations, Security, Workflow, Reports, and Settings. The main content area is titled 'Applications' and features a search bar at the top. Below the search bar, there is a message: 'Developer Edition provides a limited number of apps. Deactivate unused apps or check out our plans page. Contact us to find a plan that is right for your organization.' Below this message, there are four buttons: 'Create App Integration' (highlighted with a green box), 'Browse App Catalog', 'Assign Users to App', and 'More'. Below the buttons, there is a table with a search bar and a list of applications. The table has columns for 'STATUS' and a count. The first row is 'ACTIVE' with a count of 1, and the second row is 'INACTIVE' with a count of 12. To the right of the table, there are four application cards: 'Dss integration' (Client ID: Coabkrnih9hUVgx Dz5d7), 'Okta Admin Console', 'Okta Browser Plugin', and 'Okta Dashboard'.

2. Select **API Services** and choose a name for your app.

☰ New API Services App Integration

General Settings

App integration name

3. To enable integration with Directory Sync, go to **Edit** and activate **Public/Private Key Authentication**

[← Back to Applications](#)

 **DSS TEST 2**

[General](#) [Okta API Scopes](#) [Application Rate Limits](#)

Client Credentials

Client ID

Public identifier for the client that is required for all OAuth flows.

Client authentication Client secret Public key / Private key

CLIENT SECRETS

Client Credentials Cancel

Client ID 0oactok8tsq8ZBkRz5d7
Public identifier for the client that is required for all OAuth flows.

Client authentication Client secret
 Public key / Private key

PUBLIC KEYS

Configuration Save keys in Okta
 Use a URL to fetch keys dynamically

KID	Status	Created
No public keys are configured. Click Add key to get started.		

Add key Save Cancel

Add a public key

Paste your own public key or automatically generate a new key pair.

Clear Generate new key

Done Cancel

4. Copy the generated private key and store it securely for future reference.

Add a public key

Paste your own public key or automatically generate a new key pair.

Clear Generate new key

```

{
  "kty": "RSA",
  "e": "AQAB",
  "kid": "WhoMhH790PEghItAypuXEa_j_m10DAzqhuWgE7bW14",
  "n": "ng5-9jDcCeBYLvr02DjAee1YLL7Z99q-aw12wr9sHVkYDLGoLwkJrKeJP62425ZT4isv_7hbS1YaN9ZZzEZY_Iy5"
}

```

Private key - Copy this!

The private key appears only once for enhanced security. Copy this key and store it somewhere safe for use later.

Copy to clipboard

JSON PEM

```

{
  "d": "I25d9SveQ60E0SHVqQBN23S81RkCbS6exYe1RWJaZtJQTJYtVL-Cq07U1E8J88Wm77odNC68X1qc8XvuWxKnA5Q6",
  "p": "y3g5oQOFowzAWB_1w4yk1L-t09yYo-d--at-XWhrUT9e-fNuZXRRAWQVD5ud7HsSSoIgx4m0Q1bq-dZRjDgyX1K",
  "q": "xtbzSNDn3HoSo5-wemMLdBdXnpwEdtACHReTH2pHj2DgNaf3kwSS5Kp0L4Hh8amVj3HCD9wRsmMvNHMU3sB6e436f",
  "dp": "FCVCAs1X1ugTtWjNszRaf0sP11qf61dzgQJ4Ys-fgm13HDzocP1YwXyccr1WpDUWMA2Xt0_rxt1wQmcr1Hp2a3E1",
  "dq": "bgmypwOMInRayDp3k7__3ULHtDnB31CmubgmfmML2FDzr21xaQcW58EKGV-dTs0v5nfkEjKL-FGrYiJr4fzP0B54",
  "qi": "vix-hRZsiPNRJBGkVT0zV_w5K2rthqP1kOCXel1mMze_j-cjwomwMGtbU0_XkVD_iF2fYKv1f-9iUSK6BTYfvy",
  "kty": "RSA",
  "e": "AQAB",
  "kid": "WhoMhH790PEghItAypuXEa_j_m10DAzqhuWgE7bW14",
  "n": "ng5-9jDcCeBYLvr02DjAee1YLL7Z99q-aw12wr9sHVkYDLGoLwkJrKeJP62425ZT4isv_7hbS1YaN9ZZzEZY_Iy5"
}

```

Done Cancel

- Grant the following permissions:
Okta.users.read
Okta.groups.read

[← Back to Applications](#)

DSS TEST 2

Active

View Logs

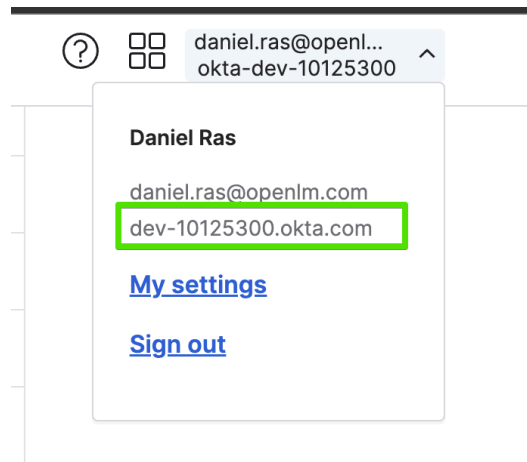
General Okta API Scopes Application Rate Limits

Consent	Scope	Consent	Actions
Any	okta.agentPools.manage	Not granted	✔ Grant
Granted	okta.agentPools.read	Not granted	✔ Grant
Not Granted	okta.apiTokens.manage	Not granted	✔ Grant

OpenID Connect clients can access Okta APIs on behalf of a user. Scopes control which API endpoints and operations the client user can be allowed.

"Self" scopes allow a resource to only read or manage itself. Other scopes

6. Save your Okta domain (e.g., yourcompany.okta.com) and the Client ID of the created app for use in Directory Sync configuration.



Applications

[Help](#)

Developer Edition provides a limited number of apps.

Deactivate unused apps or check out our [plans page](#). Contact us to find a plan that is right for your organization.

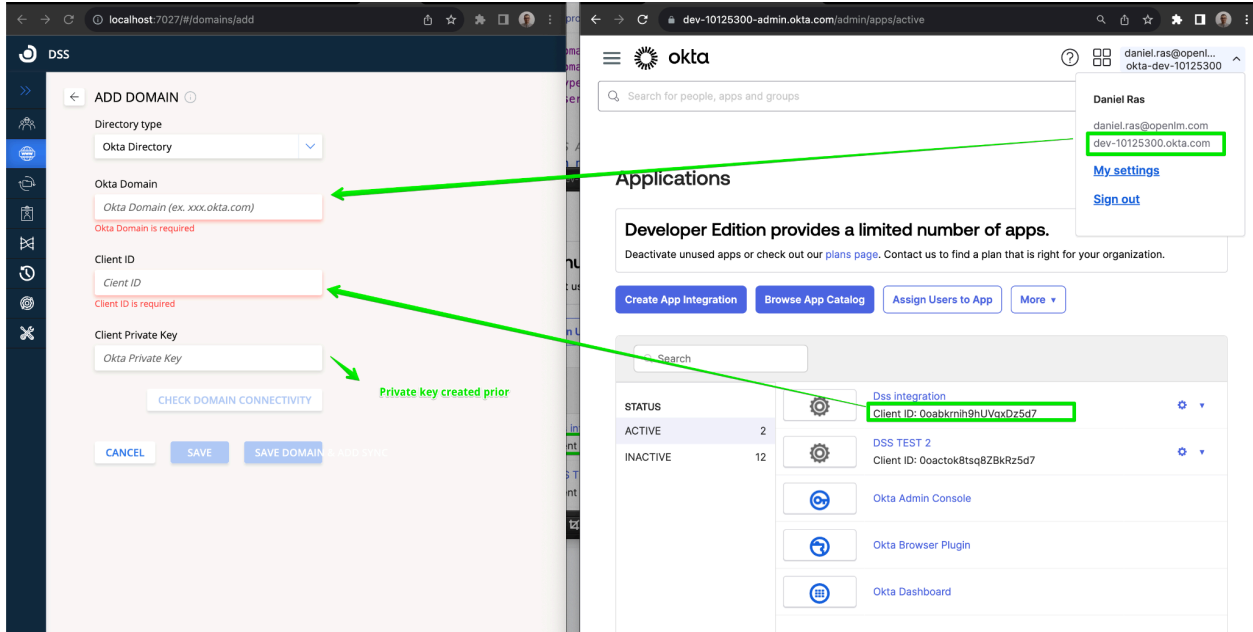
[Create App Integration](#) [Browse App Catalog](#) [Assign Users to App](#) [More](#)

STATUS		DSS integration	
ACTIVE	2	Client ID: 0oabkrnih9hUVgxDz5d7	Settings
INACTIVE	12	DSS TEST 2	Settings
		Client ID: 0oactok8tsq8ZBkRz5d7	

DSS configuration

Domain settings (connection to Okta)

1. Log in to your Directory Sync account and navigate to the **Domain Manager** tab.
2. Click **Add Domain** and select **Okta Directory** from the **Directory Type** dropdown list.
3. Input the Okta domain details into the **Okta Domain** field.
4. Enter the Client ID into the **Client ID** field.
5. Paste the **Client Private Key** from step 3 above into the Client Private Key field.
6. Click **Save**.



Start node options:

Choose from the following options:

Start Sync From

- Empty: Sync all users and groups.
- Users/useremail@mail.com: Sync only the specified user.
- Groups/groupname: Sync groups starting from the specified group.

Sync Attribute

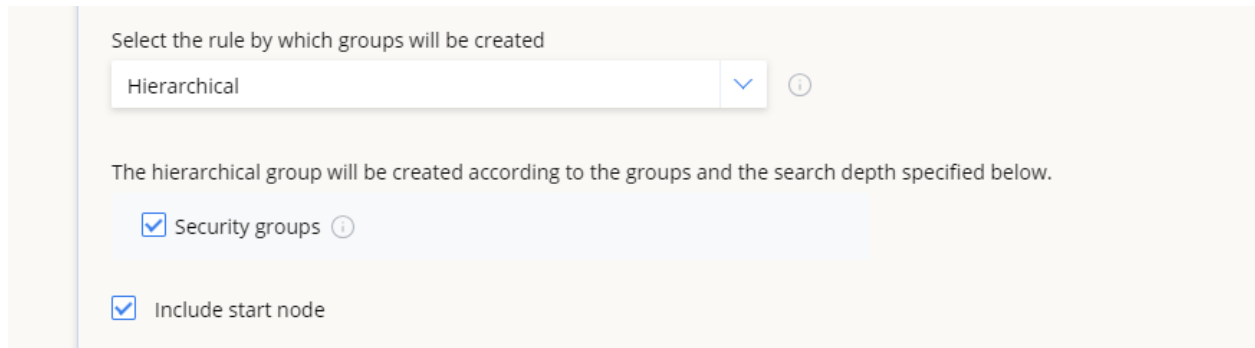
Select login as the sync attribute.

Sync Attribute ⓘ

login

Hierarchical Group Rules

Only groups are supported, as Okta does not have organization units or administrative units. The structure consists of users in groups, with a maximum search depth of 1.



Select the rule by which groups will be created

Hierarchical ▼ ⓘ

The hierarchical group will be created according to the groups and the search depth specified below.

Security groups ⓘ

Include start node

Entity Attributes

Entity Attributes, according to which we can create virtual groups:

Destination & Time

Select the rule by which groups will be created

Entity attribute ▼

Group by attribute

Type or select an attribute

- Company
- State
- Cost Center
- Country
- Department
- City
- Manager
- Time Zone

The highest search depth of objects is 1, because Okta doesn't allow groups inside groups. So structure is only users in groups (1 level, if taking in account root node):

Search depth

2 ▲▼

Object Search Depth value cannot be higher than 1.

By following these steps, you should successfully integrate Directory Sync with Okta for seamless user and group synchronization.