

Add This Feature Before Marketing Your B2B App





Wifi: Alphabet-Guest

Install Node v18+

git clone -b scim-workshop-start

https://github.com/oktadev/okta-enterprise-ready-workshops

Hello!

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developer.okta.com @OktaDev bit.ly/scim-workshop-slides

Agenda

- What problem we're trying to solve
- About SCIM
- Add SCIM support in a sample app
- Connect with Okta
- Learn more

You will have parts where you follow instructions from a separate sheet of paper







Agenda

- What problem we're trying to solve
- > About SCIM
- Add SCIM support utilizing Okta in a sample app
- Learn more

You will follow workshop instructions from a separate sheet of paper









Work on the written instruction section matching the slide section





I have this great idea for a B2B app!



Does it have the features big customers want?





User management overhead

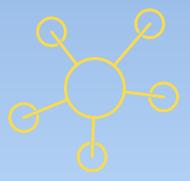
Enterprise companies have many employees.

Syncing them into a B2B app is

expensive.



Enterprise customers want



Centralized













We automate it

Automatically synchronize user across domains using an open standard supported by reputable user and identity software

Identity Providers

Centralizes users

Manage users in a central place

Conforms to standards

Many Identity
Providers support
standard
mechanisms for
authentication,
identity, and user
management

Used by large organizations

Your app should connect with Identity Providers to sell to enterprise customers





An open protocol to manage identities

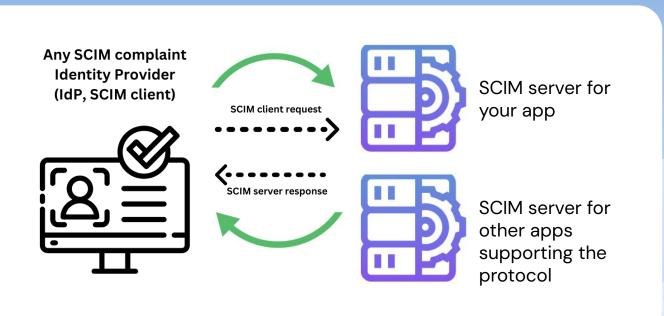
- System for Cross-domain Identity Management (SCIM)
- Open standard by IETF
- Reduces cost and complexity of user lifecycle management







How SCIM works



Restful API endpoints

- GET, POST, PUT, PATCH, DELETE
 - my-api/scim/v2/users
- > Standard schema representing users









Get going with sample project

Get the Todo app going locally













Sample Todo app



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Set up application

Follow instructions on the sheet to download the project, install dependencies, seed the database, and run the API. The GitHub branch is scim-workshop-start.



4. Sample app overview

Existing implementation of note





prisma/schema.prisma

```
model User {
          Int    @id @default(autoincrement())
  email String
 password String?
 name String
 Todo Todo []
 org Org? @relation(fields: [orgId], references: [id])
 orgId Int?
 externalId String?
  active Boolean?
 @@unique([orgId, externalId])
```

prisma/schema.prisma

```
model Org {
  id
           Int
                   @id @default(autoincrement())
  domain
           String
                   @unique
  issuer
                        String @default("")
  authorization endpoint String @default("")
 token_endpoint
                        String @default("")
  userinfo endpoint
                        String @default("")
  client_id
                        String @default("")
                        String @default("")
  client secret
 apikey
                        String
  Todo
          Todo[]
          User[]
 User
```

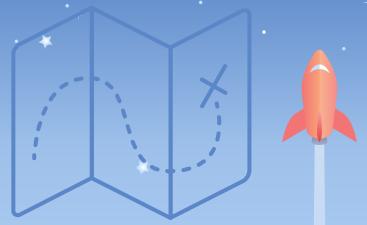
prisma/seed_script.ts

```
async function main() {
 const org = await prisma.org.create({
    data: {
      domain: 'portal.example',
      apikey: '131313'
  });
  // remaining implementation
```

apps/api/src/main.ts

```
// authenticate HTTP requests using Bearer tokens
import passportBearer from 'passport-http-bearer';
// body-parser is required to accept the content-type (application/scim+json)
import bodyParser from 'body-parser';
// log http requests
import morgan from 'morgan';
// all SCIM routes defined in scim.ts
import { scimRoute } from './scim';
```

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Look at SCIM routes

Inspect apps/api/src/main.ts. Most user management endpoints are there, but it is missing the code to support POST users



Connect with an Identity Provider



Set up a free Okta Developer account and connect the Todo app to Okta







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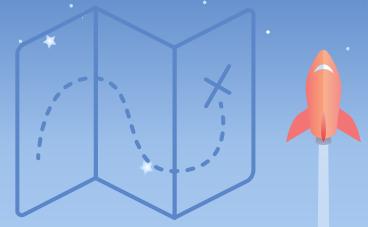
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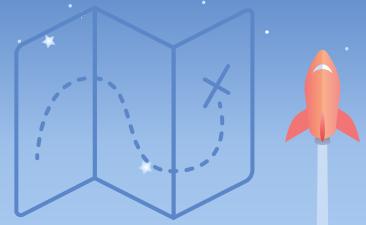






Connect with Okta

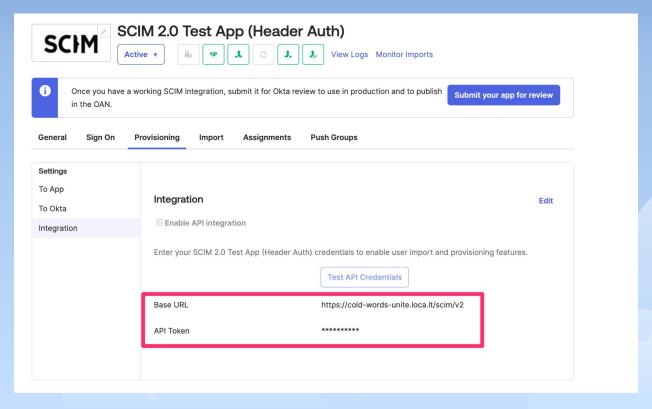
Follow the written instructions to connect with Okta, an Identity Provider that supports SCIM



Time to code!

Follow the written instructions to run your app, connect with Okta, and add the SCIM endpoint to create users

Connect with Okta SCIM server configuration





Code POST endpoint

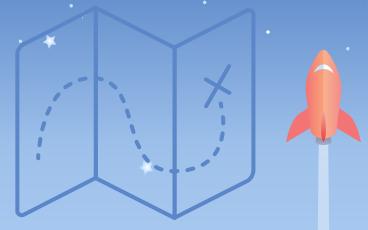
A

Implement the POST endpoint for your SCIM server





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Implement POST

Follow written instructions to add code to the existing POST endpoint. Test the endpoint by adding a user in Okta.

Syncing achieved



Enterprise-level features Learn more



Next steps with SCIM, additional resources and links







Learn more



Step through on-demand workshops





Reach out at @AlisaDuncan. Connect with us at @OktaDev on YouTube or Twitter. Check out developer.okta.com



