

Google SSO New User Authentication Fix

Issue

New customers authenticating with Google SSO were being redirected back to the login screen instead of accessing the dashboard.

Root Cause

The app uses a multi-tenant architecture where each user must belong to an organization. When new users signed in with Google SSO:

1. The PrismaAdapter created the user account automatically
2. However, no organization was created for them
3. Without an organization membership, they couldn't access protected routes
4. The app redirected them back to login

Solution Implemented

Updated the NextAuth `signIn` callback in `/lib/auth.ts` to:

1. Automatic Organization Creation

- When a new Google SSO user signs in, the system now automatically creates a personal organization for them
- Organization name is derived from their Google profile name or email
- User is set as the organization owner with full permissions

2. Profile Information Sync

- Syncs user profile data from Google (firstName, lastName, name, profile image)
- Updates existing user records with missing information from Google profile

3. Existing User Support

- Also handles existing users who don't have an organization (edge case)
- Creates an organization for them during their next login

4. Audit Trail

- Logs user creation events with proper organization context
- Tracks Google SSO authentications for compliance

Technical Details

Updated Callback Flow:

```
async signIn({ account, profile, user }) {  
  if (account?.provider === 'google') {  
    // 1. Verify email  
    if (profile?.email_verified !== true) return false  
  
    // 2. Wait for PrismaAdapter to create user  
    // 3. Fetch user with organization relationships  
    // 4. Update profile info from Google  
    // 5. Check if user has organization  
    // 6. If not, create organization and add user as owner  
    // 7. Create audit log  
  
    return true  
  }  
}
```

Key Features:

- **Non-blocking waits:** Gracefully waits for PrismaAdapter to complete user creation
- **Idempotent:** Safe to run multiple times, won't create duplicate organizations
- **Error handling:** Comprehensive error logging for troubleshooting
- **Backward compatible:** Works with existing users and new signups

Deployment Status

✓ **LIVE** at <https://ncc-1701.io>

Testing Checklist

When a new user signs in with Google SSO, they should:

- [x] Successfully authenticate through Google
- [x] Have a user account created automatically
- [x] Have a personal organization created
- [x] Be redirected to /dashboard
- [x] See their name and profile info in the user dropdown
- [x] Be able to execute queries and access all features

Notes

- The fix handles both brand new users and existing users without organizations
- Profile pictures from Google are synced automatically
- Organization slug is generated to be URL-safe and unique
- All operations are audited for compliance tracking