

NextAuth 404 Error Investigation Report

Date: November 3, 2025

Repository: <https://github.com/Damadruda/servicephere-mvp.git>

Issue: NextAuth route returning 404 errors on `/api/auth/session` endpoint

Executive Summary

ROOT CAUSE IDENTIFIED: The NextAuth API route handler file is **completely missing** from the repository.

The application has all the necessary NextAuth configuration and is properly set up to use NextAuth.js, but the critical API route file that handles authentication requests is not present in the codebase.

Detailed Findings

1. ✗ Missing Route Handler File

Expected Location: `app/api/auth/[...nextauth]/route.ts`

Actual Status: FILE DOES NOT EXIST

The entire `app/api/auth/` directory is missing. This is the fundamental reason for the 404 errors.

Directory Structure Check:

```
app/api/
  ├── chat/
  ├── chat-sap/
  ├── check-auth-config/ ← Only auth-related directory found
  ├── check-env/
  ├── contracts/
  └── dashboard/
  ... (other API routes)
```

No `app/api/auth/[...nextauth]/` directory exists.

2. ✓ Authentication Configuration (`lib/auth.ts`)

The authentication configuration file exists and is properly configured:

File: `lib/auth.ts`

Status: ✓ Present and properly configured

Key Features:

- NextAuth options properly exported (`authOptions`)
- CredentialsProvider configured with bcrypt password hashing
- JWT strategy with 30-day session duration

- Proper callbacks for JWT and session handling
- Custom login page configured at `/login`
- Debug logging enabled for development
- Environment variable validation (NEXTAUTH_SECRET)

Configuration Highlights:

```
export const authOptions: NextAuthOptions = {
  providers: [CredentialsProvider({ ... })],
  session: { strategy: 'jwt', maxAge: 30 * 24 * 60 * 60 },
  pages: { signIn: '/login', error: '/login' },
  secret: process.env.NEXTAUTH_SECRET,
  // ... additional configuration
}
```

3. SessionProvider Configuration

File: `components/auth-provider.tsx`

Status:  Properly configured

The SessionProvider is correctly set up in the AuthProvider component:

```
<SessionProvider
  basePath="/api/auth"  Expects API route at /api/auth
  refetchInterval={5 * 60}
  refetchOnWindowFocus={true}
>
```

Usage: The AuthProvider wraps the entire application in `app/layout.tsx`.

4. Application Integration

Status: Multiple pages using NextAuth hooks

The application is actively using NextAuth throughout the codebase:

- `app/proyectos/nuevo/page.tsx` - Uses `useSession()`
- `app/oportunidades/page.tsx` - Uses `useSession()`
- `app/seleccion/[quotationId]/page.tsx` - Uses `useSession()`
- `app/chatbot/page.tsx` - Uses `useSession()`
- `app/contratos/page.tsx` - Uses `useSession()`
- ... and many more

All these components expect the NextAuth API route to be available at `/api/auth/*`.

5. Package Versions

File: `package.json`

Status:  Compatible versions installed

```
{
  "next": "14.2.28",
  "next-auth": "4.24.11",
  "@next-auth/prisma-adapter": "1.0.7"
}
```

These versions are compatible and support the Next.js 14 App Router architecture.

6. Next.js Configuration

File: next.config.js

Status:  No conflicting configurations

```
const nextConfig = {
  distDir: process.env.NEXT_DIST_DIR || '.next',
  eslint: { ignoreDuringBuilds: true },
  typescript: { ignoreBuildErrors: false },
  images: { unoptimized: true },
};
```

No custom routing configurations that would interfere with API routes.

7. Middleware Check

Status:  No middleware conflicts

No `middleware.ts` file found in the root directory that could be intercepting or blocking the auth routes.

Why the 404 Error Occurs

When the application tries to access `/api/auth/session` or any other NextAuth endpoint:

1. Request Flow:

- Component calls `useSession()` → NextAuth tries to fetch `/api/auth/session`
- Next.js looks for `app/api/auth/[...nextauth]/route.ts`
- **File not found** → Next.js returns 404 HTML page
- Client expects JSON, receives HTML → `CLIENT_FETCH_ERROR: "The string did not match the expected pattern"`

2. What Should Happen:

- The `[...nextauth]` dynamic route should catch all requests to `/api/auth/*`
- The route handler should export the NextAuth handler with GET and POST methods
- NextAuth would process the request and return proper JSON responses

Solution Required

Create the Missing Route Handler File

File to Create: `app/api/auth/[...nextauth]/route.ts`

Required Content:

```
import NextAuth from 'next-auth'
import { authOptions } from '@/lib/auth'

const handler = NextAuth(authOptions)

export { handler as GET, handler as POST }
```

Steps:

1. Create directory: `app/api/auth/[...nextauth]/`
2. Create file: `route.ts` inside the directory
3. Add the handler code above
4. Rebuild and restart the application

Previous Fix Attempts (Context)

According to the context provided, previous fixes were attempted:

1. Changed export pattern to `export { handler as GET, handler as POST } ✓` (correct approach)
2. Removed build-time validations from `lib/auth.ts ✓` (not the issue)
3. Fixed route handler structure `✓` (not the issue)

However, these fixes were likely applied to a file that either:

- Was never committed to the repository
- Was deleted at some point
- Was never created in the first place

The fundamental issue is that **the file itself is missing**, not that the file has incorrect code.

Verification Checklist

After creating the missing file, verify:

- [] File exists at: `app/api/auth/[...nextauth]/route.ts`
- [] File exports both GET and POST handlers
- [] File imports `authOptions` from `@/lib/auth`
- [] Environment variable `NEXTAUTH_SECRET` is set
- [] Run `npm run build` successfully
- [] Test `/api/auth/session` endpoint returns JSON (not 404)
- [] Test `useSession()` hook works in components
- [] Test login/logout functionality

Additional Recommendations

1. **Add to Git:** Ensure the route handler file is committed to the repository
2. **Environment Variables:** Verify `NEXTAUTH_SECRET` is set in all environments (dev, staging, prod)
3. **Build Check:** Add a pre-build validation to ensure critical files exist
4. **Testing:** Add API route tests to catch missing route handlers
5. **Documentation:** Document the required NextAuth setup in the README

Technical Details

Next.js 14 App Router Requirements

With Next.js 14 App Router, NextAuth requires:

- Route handlers in `app/api/` directory structure
- Dynamic catch-all route: `[...nextauth]`
- Named exports for HTTP methods: `GET` and `POST`

Current Directory vs Required Directory

Current:

```
app/api/
  └── (other routes...)
    └── (no auth directory)
```

Required:

```
app/api/
  └── auth/
    └── [...nextauth]/
      └── route.ts   ← MISSING
    └── (other routes...)
```

Conclusion

The 404 error on `/api/auth/session` is caused by the **complete absence** of the NextAuth API route handler file. All other aspects of the authentication system are properly configured:

- Auth configuration exists and is valid
- SessionProvider is properly set up
- Application components are using NextAuth hooks
- Package versions are compatible
- No configuration conflicts
- API route handler file is missing**

Solution: Create the file `app/api/auth/[...nextauth]/route.ts` with the proper NextAuth handler exports.

Investigation completed by: DeepAgent

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