Whop OAuth Callback Error - Troubleshooting Guide

Date: November 28, 2025
Error: `OAuthCallback` error when logging in with Whop
Status: 🔍 Investigating

🔴 Current Issue

Users attempting to log in with Whop are being redirected to:

```
https://catchbarrels.app/auth/login?callback-
Url=https%3A%2F%2Fcatchbarrels.app%2Fdashboard&error=OAuthCallback
```

This indicates the OAuth callback processing is failing after Whop redirects back to the app.

✅ What We've Fixed

1. PWA Deprecation Warning

- **Fixed:** Replaced deprecated `apple-mobile-web-app-capable` with `mobile-web-app-capable`
- **File:** `app/layout.tsx`
- **Impact:** Eliminates browser console warning

🔍 Diagnostic Steps Required

The app has **extensive logging** built into the OAuth flow. To diagnose the exact failure point, we need to check server logs.

Where to Find Logs

When you attempt a Whop login, the server console will show detailed logs like:

```
[Whop OAuth] ========== TOKEN EXCHANGE START ==========
[Whop OAuth] Callback URL: https://catchbarrels.app/api/auth/callback/whop
[Whop OAuth] Code present: true
[Whop OAuth] Client ID: Present
[Whop OAuth] Client Secret: Present
[Whop OAuth] Token response status: 200
[Whop OAuth] ✅ Token exchange SUCCESS
```

OR

```
[Whop OAuth] ❌ Token exchange FAILED
[Whop OAuth] Status: 403
[Whop OAuth] Error body: {"error":"invalid_client"}
```

🎯 Most Common Causes

1. Redirect URL Mismatch

✅ What Should Be Registered in Whop:

```
https://catchbarrels.app/api/auth/callback/whop
```

❌ Common Mistakes:

- `https://catchbarrels.app/auth/callback/whop` (wrong path)
- `https://catchbarrels.app/api/auth/callback/whop/` (trailing slash)
- `http://` instead of `https://`
- Multiple redirect URLs registered (Whop may get confused)

Action: Verify in Whop Developer Dashboard that ONLY the correct URL above is registered.

2. Invalid or Expired Authorization Code

The OAuth code from Whop may have expired or already been used.

Action: Try clearing browser cache/cookies and logging in again in an incognito window.

3. Whop API Key Permissions

The `WHOP_CLIENT_SECRET` must have the correct permissions.

Current Configuration:

```
WHOP_CLIENT_ID=app_WklQSIhlx1uL6d
WHOP_CLIENT_SECRET=apik_JYqngRfc3G5TC_A2019140...
WHOP_API_KEY=apik_JYqngRfc3G5TC_A2019140...
WHOP_COMPANY_ID=biz_4f4wiRWwiEZfIF
```

Note: For Whop OAuth, `WHOP_CLIENT_SECRET` should equal `WHOP_API_KEY`. This is correct.

Action: Verify the API key has these permissions in Whop:

- `openid`
- `email`
- `profile`

🧪 Testing Steps

Test 1: Incognito Browser Login

1. Open incognito/private browsing window
2. Go to: `https://catchbarrels.app/auth/login`
3. Click "Log in with Whop"
4. Approve on Whop's consent screen
5. **Expected:** Redirect to dashboard
6. **Actual:** Error page shows

Test 2: Check Server Logs

Where to check:
- Vercel Dashboard → CatchBarrels Project → Functions → Logs
- OR: Local development console if running `yarn dev`

What to look for:

```
[Whop OAuth] ❌ Token exchange FAILED
```

OR

```
[Whop OAuth] ❌ Userinfo fetch FAILED
```

OR

```
[Whop OAuth] ❌ CRITICAL: Profile missing required "id" field
```

🔧 Quick Fixes to Try

Fix 1: Verify Whop Redirect URL

1. Go to: https://dev.whop.com/
2. Navigate to: **Your Apps → CatchBarrels → OAuth Settings**
3. Ensure **ONLY** this URL is listed:
   `https://catchbarrels.app/api/auth/callback/whop`
4. Remove any other redirect URLs
5. Save changes

Fix 2: Reinstall CatchBarrels App in Whop

This clears Whop's cached OAuth credentials:

1. Go to: https://whop.com/hub/
2. Navigate to: **Settings → Apps**
3. Find "CatchBarrels" and click **Uninstall**
4. Go back to: https://dev.whop.com/
5. Find CatchBarrels app and click **Install to Business**

6. Approve permissions
7. Try logging in again

Fix 3: Clear Browser State

```
# In Chrome DevTools Console:
localStorage.clear();
sessionStorage.clear();
```

Then close and reopen the browser.

📋 Information Needed for Diagnosis

If the issue persists after trying the above, please provide:

1. Screenshot of Whop OAuth Settings

- Show the registered redirect URLs
- Redact any sensitive API keys

2. Server Logs

- Copy all `[Whop OAuth]` log entries from the server console
- These will show exactly where the flow is failing

3. Browser Network Tab

- Open DevTools → Network tab
- Attempt login
- Filter for requests to `whop.com` and `api.whop.com`
- Screenshot any failed requests (status 4xx or 5xx)

4. Confirmation

- [ ] Verified only one redirect URL is registered in Whop
- [ ] Tried incognito browser test
- [ ] Cleared browser cache/cookies
- [ ] Reinstalled CatchBarrels app in Whop business dashboard

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✅ Expected Success Flow

When working correctly, you should see:

```
[Whop OAuth] ========== TOKEN EXCHANGE START ==========
[Whop OAuth] Token response status: 200
[Whop OAuth] ✅ Token exchange SUCCESS
[Whop OAuth] ========== USERINFO FETCH START ==========
[Whop OAuth] Userinfo response status: 200
[Whop OAuth] ✅ Userinfo fetch SUCCESS
[Whop OAuth] ========== PROFILE MAPPING START ==========
[Whop OAuth] ✅ Profile mapped successfully
[NextAuth JWT] ✅ New user created in DB
[NextAuth JWT] ✅ User membership updated
[NextAuth Redirect] Redirecting to: /dashboard
```

📚 Related Documentation

- `docs/WHOP_SSO_FIX_COMPLETE.md` - Previous OAuth fixes
- `docs/WO12_WHOP_OAUTH_REDIRECT_LOOP_FIX.md` - Redirect loop resolution
- `docs/WO14_WHOP_SSO_LOGIN_LOOP_FIX.md` - Login loop fix
- `docs/WO15_WHOP_OAUTHSIGNIN_DEBUG.md` - OAuth debugging guide
- `docs/WHOP_OAUTH_CALLBACK_DIAGNOSTIC.md` - Detailed diagnostic steps

🚀 Next Steps

1. **User Action:** Try the Quick Fixes above
2. **User Action:** If still failing, provide server logs and screenshots
3. **DeepAgent:** Once logs are provided, identify exact failure point and implement fix

Status: Awaiting server logs to pinpoint exact failure point in OAuth callback processing.