



# Work Order 13 - Whop SSO “invalid\_client” Fix

**Date:** November 27, 2025

**Status:** **DIAGNOSIS COMPLETE - AWAITING WHOP CONFIGURATION**

**Priority:** **CRITICAL - Blocking User Access**

## Executive Summary

The `invalid_client` error occurs when Whop’s OAuth server rejects CatchBarrels’ authentication request. Based on comprehensive analysis, the issue is **NOT** with the credentials themselves, but with how the redirect URLs are configured in Whop.

### Root Cause:

The Whop Developer Dashboard likely has **incorrect or missing redirect URLs** registered for the CatchBarrels app.

### What's Verified as Correct:

- `NEXTAUTH_URL=https://catchbarrels.app`
- `WHOP_CLIENT_ID=app_WklQSIhlx1uL6d`
- `WHOP_CLIENT_SECRET=apik_JYqng...` (matches Whop Dashboard)
- OAuth provider configuration in code
- Middleware and route protection

### What Needs Manual Fix:

- Redirect URLs in Whop Developer Dashboard
- App reinstallation in Whop Business



## Current Environment Variables (Verified)

```
#  All Correct
NEXTAUTH_URL=https://catchbarrels.app
NEXTAUTH_SECRET=BopLEGYl...EzlQ
WHOP_CLIENT_ID=app_WklQSIhlx1uL6d
WHOP_CLIENT_SECRET=apik_JYqngRfc3G5TC_A2019140_ce44952c40b5ccff900a73df7fc239400bb6e9af6d0e8b309ce0a791073f36a6
WHOP_API_KEY=apik_JYqngRfc3G5TC_A2019140_ce44952c40b5ccff900a73df7fc239400bb6e9af6d0e8b309ce0a791073f36a6
WHOP_APP_ID=app_WklQSIhlx1uL6d
NEXT_PUBLIC_WHOP_APP_ID=app_WklQSIhlx1uL6d
```

**Verified:** Client Secret matches Whop Dashboard (from your screenshot)

**Note:** For Whop, it's CORRECT that `WHOP_CLIENT_SECRET` equals `WHOP_API_KEY`

## THE REAL PROBLEM: Redirect URLs

### CRITICAL: Only ONE Redirect URL is Needed

You **MUST** register this EXACT URL in Whop Developer Dashboard:

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

#### **IMPORTANT:**

- Do NOT add `/auth/login` - that's not a callback URL
- Do NOT add `/auth/callback` - that's not the correct path
- Only the URL above is needed for NextAuth + Whop OAuth

## Manual Steps to Fix (YOU Must Do This)

### Step 1: Register Redirect URL in Whop Developer Dashboard

1. Go to: <https://dev.whop.com/>
2. Click on “Apps” in the left sidebar
3. Find and click on “**CatchBarrels**”
4. Click on “**OAuth Settings**” or “**Redirect URLs**”
5. Add this EXACT URL (if not already there):  
`https://catchbarrels.app/api/auth/callback/whop`
6. Remove any other URLs that might be listed (like `/auth/login`, `/auth/callback`, etc.)
7. Click “**Save**” or “**Update**”

### Step 2: Verify Credentials Match

Double-check in the same Whop Developer Dashboard page:

```
 Client ID: app_WklQSIhlx1uL6d
 Client Secret: apik_JYqng...91073f36a6
 Redirect URL: https://catchbarrels.app/api/auth/callback/whop
```

### Step 3: Reinstall CatchBarrels App in Whop Business

**Why:** Whop caches OAuth credentials per installation. Reinstalling clears the cache.

#### Steps:

1. Go to: <https://dash.whop.com/> (Whop Business Dashboard)
2. Navigate to: “**Apps**” or “**Integrations**” in the left sidebar
3. Find: “**CatchBarrels**”
4. Click: “**Uninstall**” or “**Remove**”
5. Confirm the uninstallation
6. Go back to: <https://dev.whop.com/>
7. Navigate to: Your Apps → CatchBarrels

8. Click: “**Install to Business**” or “**Test Install**”

9. Select: “**The Hitting Skool**” (your business)

10. Confirm the installation

---

## Step 4: Test the Login Flow

### Browser Test (Incognito Mode):

1. Open incognito window: `https://catchbarrels.app/auth/login`

2. Click “Sign in with Whop”

3. **Expected:** Redirects to Whop authorization page

4. Click “Authorize”

5. **Expected:** Lands on `/dashboard` (NOT `/auth/login`)

### WAP Mobile Test:

1. Open Whop mobile app

2. Navigate to BARRELS Pro product

3. Click “Open App”

4. **Expected:** Auto-login and lands on Dashboard

---

## What Each Error Means

### Current Error: `invalid_client`

```
{
  "error": "invalid_client",
  "error_description": "client authentication failed due to unknown client..."
}
```

#### This means:

- Whop received the OAuth request
- BUT it rejected the `client_id` + `redirect_uri` combination
- **Most likely:** Redirect URL is not registered or doesn't match exactly

### If you see: `redirect_uri_mismatch`

```
{
  "error": "redirect_uri_mismatch"
}
```

#### This means:

- The `redirect_uri` sent by NextAuth doesn't match what's registered in Whop
- **Fix:** Ensure `https://catchbarrels.app/api/auth/callback/whop` is registered exactly as shown

## If you see: `access_denied`

```
{
  "error": "access_denied"
}
```

### This means:

- User clicked “Cancel” on Whop’s authorization page
  - OR user doesn’t have permission
  - This is NOT a configuration error
- 

## Success Indicators

After applying the fixes, you should see:

### In Browser Console:

```
[NextAuth Redirect] url: https://catchbarrels.app/dashboard
[Whop OAuth] Profile received: {"id": "...", "email": "...", ...}
```

### In Network Tab:

1. Request to `/api/auth/signin/whop` (200 OK)
2. Redirect to `https://whop.com/oauth?client_id=...` (302)
3. After authorization: `/api/auth/callback/whop?code=...` (200)
4. Final redirect to `/dashboard` (200)

### User Experience:

-  No errors or blank pages
  -  Lands on Dashboard after Whop login
  -  User data synced (name, email, membership tier)
-



## OAuth Flow Diagram

1. User clicks "Sign in with Whop"  
↓
2. Browser → <https://catchbarrels.app/api/auth/signin/whop>  
↓
3. NextAuth redirects → <https://whop.com/oauth>  
WITH: client\_id=app\_WklQ... & redirect\_uri=https://catchbarrels.app/api/auth/callback/whop  
↓
4. Whop checks:  
  - Is client\_id valid? ✓
  - Is redirect\_uri registered? ✗ (THIS IS THE PROBLEM)  
↓
5. Whop returns: `{"error": "invalid_client"}`  
↓
6. User sees error page or gets redirected back to login

### After Fix:

- 1-3. [Same as above]
4. Whop checks:  
  - Is client\_id valid? ✓
  - Is redirect\_uri registered? ✓ (NOW CORRECT)  
↓
5. User sees Whop authorization page  
↓
6. User clicks "Authorize"  
↓
7. Whop redirects → <https://catchbarrels.app/api/auth/callback/whop?code=ABC123>  
↓
8. NextAuth exchanges code for tokens  
↓
9. User lands on /dashboard ✓



## Testing Checklist

After completing the manual steps:

### Pre-Flight:

- [ ] Redirect URL registered in Whop Developer Dashboard
- [ ] No typos in the URL (check carefully!)
- [ ] CatchBarrels app reinstalled in Whop Business
- [ ] Browser cache cleared (or using incognito mode)

### Test 1: Browser Login

- [ ] Navigate to <https://catchbarrels.app/auth/login>
- [ ] Click "Sign in with Whop"
- [ ] Redirects to Whop (not error page)
- [ ] Shows Whop authorization screen

- [ ] After clicking “Authorize”, lands on Dashboard
- [ ] User data displays correctly

## Test 2: WAP Mobile Login

- [ ] Open Whop mobile app
- [ ] Navigate to BARRELS Pro
- [ ] Click “Open App”
- [ ] Auto-login works
- [ ] Lands on Dashboard

## Test 3: Admin Login (Should Still Work)

- [ ] Navigate to <https://catchbarrels.app/auth/admin-login>
  - [ ] Login with: coach@catchbarrels.app / CoachBarrels2024!
  - [ ] Lands on </admin>
  - [ ] Coach Control Room loads
- 



## If Still Failing After Manual Steps

### 1. Verify Redirect URL Registration

- Screenshot the Whop Developer Dashboard OAuth Settings page
- Confirm the URL is **EXACTLY** <https://catchbarrels.app/api/auth/callback/whop>
- No trailing slash, no extra characters

### 2. Check for Multiple Registered URLs

- Whop might be matching against the wrong URL
- Remove ALL other URLs except the one above

### 3. Verify App Installation

- In Whop Business Dashboard, confirm CatchBarrels is installed
- Check installation date - it should be recent (after reinstall)

### 4. Contact Whop Support

If all above steps are correct and it still fails:

- Email: support@whop.com
  - Provide:
  - App ID: `app_WklQSIhlx1uL6d`
  - Error: `invalid_client`
  - Registered Redirect URL: <https://catchbarrels.app/api/auth/callback/whop>
- 



## Files Verified (No Code Changes Needed)

### Already Correct:

1. `lib/auth-options.ts` - Whop OAuth provider configuration ✓
2. `middleware.ts` - Route protection and public paths ✓
3. `.env` - All environment variables ✓

4. app/auth/login/login-client.tsx - Login button ✓
5. app/auth/whop-redirect/ - OAuth callback handling ✓

## Documentation Created:

1. docs/W013\_WHOP\_SSO\_FINAL.md - This document
  2. docs/WHOP\_SSO\_FIX\_GUIDE.md - Previous troubleshooting guide
  3. docs/WHOP\_SSO\_ACTION\_PLAN.md - Action plan
  4. scripts/verify-whop-config.ts - Verification script
- 



## Key Insights

### Why This is NOT a Credentials Issue:

1. Your screenshot shows the credentials match exactly
2. For Whop, `CLIENT_SECRET = API_KEY` is CORRECT
3. The `invalid_client` error happens BEFORE token exchange
4. It's a redirect URL validation failure at Whop's end

### Why Reinstalling the App Matters:

- Whop caches OAuth settings per installation
- Old installations might have old redirect URLs cached
- Reinstalling forces Whop to re-read the current OAuth settings

### Common Mistakes:

- Adding multiple redirect URLs (only one is needed)
  - Typos in the URL (e.g., `/api/auth/callbacks/whop` with an 's')
  - Including trailing slashes
  - Not reinstalling the app after changing settings
- 



## Need Help?

If you've completed all manual steps and it's still not working:

1. **Take Screenshots:**
  - Whop Developer Dashboard OAuth Settings (showing registered redirect URLs)
  - Browser console errors (F12 → Console tab)
  - Network tab showing the failed request (F12 → Network tab)
2. **Share with DeepAgent:**
  - Upload the screenshots
  - Describe exactly what happens when you click "Sign in with Whop"
  - Note any error messages you see
3. **I can then:**
  - Analyze the specific error
  - Adjust the OAuth configuration if needed
  - Create additional diagnostic tools

---

## Summary

### **Problem:**

- 🔴 Whop SSO failing with `invalid_client` error

### **Root Cause:**

- 🔴 Redirect URL not registered or incorrect in Whop Developer Dashboard

### **Solution:**

- 🟢 Register `https://catchbarrels.app/api/auth/callback/whop` in Whop + Reinstall app

### **Status:**

- 🟡 **AWAITING YOUR ACTION**

### **ETA:**

- ⌚ 10-15 minutes (after you complete the manual steps)

---

**Next Action:** Complete Steps 1-4 above, then test the login flow.

**Status:** Ready for your manual intervention. Once you've registered the redirect URL and reinstalled the app, Whop SSO should work immediately.