🎯 Solution Summary: Fixing "Bucket not found" Error

📋 Quick Overview

Problem: Logo upload fails with "Bucket not found" error
Root Cause: The `customer-logos` bucket doesn't exist in Supabase Storage
Solution: Manually create the bucket (takes 2 minutes)

🚀 What You Need to Do (Step-by-Step)

Step 1: Go to Supabase Storage

1. Open https://supabase.com/dashboard
2. Select your project (same one used by your app)
3. Click **Storage** in the left sidebar

Step 2: Create the Bucket

1. Click **"New bucket"** button
2. Enter name: `customer-logos` (exactly this!)
3. ✅ **Check "Public bucket"** (IMPORTANT!)
4. Click **"Create bucket"**

Step 3: Verify & Test

1. You should see `customer-logos` with a 🟢 Public badge
2. Go to your app: https://roblox-tool-ruddy.vercel.app/admin
3. Navigate to Customers tab
4. Click "Logo" for any customer
5. Upload an image → Should work! ✅

📚 Available Guides

I've created **3 guides** to help you:

1. FIX_BUCKET_NOT_FOUND.md (Detailed Guide)

- Complete step-by-step instructions
- Troubleshooting tips
- SQL policies (optional but recommended)
- Common mistakes to avoid
- **Use this for:** Full understanding and optional security setup

2. QUICK_FIX_CHECKLIST.md (30-Second Reference)

- Ultra-quick summary
- Just the essential steps
- Perfect for quick fixes

- **Use this for:** Fast reference when you know what to do

3. BUCKET_CREATION_VISUAL_GUIDE.md (Visual Guide)

- Visual indicators and what to expect
- Screenshots descriptions
- Color-coded success/error states
- Project verification steps
- **Use this for:** First-time setup or if confused about what you should see

🎓 Understanding the Issue

Why Did This Happen?

The code **attempts to auto-create** the bucket during deployment, but this can fail due to:
- Permission limitations
- API rate limits
- Network timing issues
- First-time setup requirements

Manual creation is the most reliable solution!

What is the Bucket For?

```
customer-logos bucket
    ├── Stores customer logos uploaded by Super Admin
    ├── Each customer can have their own custom logo
    ├── Files organized: customers/{customerId}/{timestamp}-{filename}
    └── Public URLs generated for displaying logos in the app
```

Why Must it be Public?

- **Public = Anyone can view/read files** (but not upload/delete)
- Needed so customer users can see their company logo
- Your app generates public URLs like: `https://www.shutterstock.com/image-vector/customer-vector-logo-sign-symbol-260nw-2522587743.jpg`
- If private, these URLs would return 403 Forbidden

📊 Verification Checklist

After creating the bucket, verify:

- [ ] Bucket appears in Storage dashboard
- [ ] Bucket name is exactly `customer-logos`
- [ ] Bucket has "Public" badge or 🟢 indicator
- [ ] You're in the correct Supabase project (check DATABASE_URL)
- [ ] Test upload in Supabase dashboard works
- [ ] Test upload in your app works
- [ ] Uploaded logo displays correctly

🔍 How to Verify You're in the Right Project

Check your DATABASE_URL (Vercel → Settings → Environment Variables):

```
postgresql://postgres:PASSWORD@db.rxyfhdfellmsssgsfci.supabase.co:5432/postgres
                               ^^^^^^^^^^^^^^^^^^^
                               This is your project ID
```

In Supabase Dashboard, check the URL or top-left corner:

```
https://supabase.com/dashboard/project/rxyfhdfellmsssgsfci/storage
                                        ^^^^^^^^^^^^^^^^^^^
                                        Should match your DATABASE_URL!
```

💡 Additional Recommendations (Optional)

Add Storage Policies (Recommended)

For better security, run this SQL in Supabase SQL Editor:

```sql
-- Allow public read access
CREATE POLICY "Public Access"
ON storage.objects FOR SELECT
USING (bucket_id = 'customer-logos');

-- Allow authenticated uploads
CREATE POLICY "Authenticated uploads"
ON storage.objects FOR INSERT
TO authenticated
WITH CHECK (bucket_id = 'customer-logos');

-- Allow authenticated updates
CREATE POLICY "Authenticated updates"
ON storage.objects FOR UPDATE
TO authenticated
USING (bucket_id = 'customer-logos');

-- Allow authenticated deletes
CREATE POLICY "Authenticated deletes"
ON storage.objects FOR DELETE
TO authenticated
USING (bucket_id = 'customer-logos');
```

When to add policies:
- If uploads still fail after creating bucket
- For production security
- To restrict who can upload/delete files

🧪 Testing Procedure

Test 1: Supabase Dashboard Upload

1. Go to Storage → customer-logos
2. Click "Upload file"

3. Select any image
4. Should upload successfully ✅

If this fails → Check bucket settings!

Test 2: App Upload

1. Go to your admin dashboard
2. Customers tab
3. Click "Logo" for any customer
4. Select an image file
5. Should see: "Logo uploaded successfully" ✅

If this fails → Check browser console for errors

⚠️ Common Mistakes to Avoid

1. ❌ **Wrong bucket name**
   - Must be exactly `customer-logos` (lowercase, with dash)
   - Not `customer-logo`, `customerlogos`, or `Customer-Logos`

2. ❌ **Bucket not public**
   - Must enable "Public bucket" checkbox
   - Check for 🟢 green badge or "Public" indicator

3. ❌ **Wrong Supabase project**
   - Bucket must be in the same project as DATABASE_URL
   - Verify project ID matches

4. ❌ **Typos in bucket name**
   - Use copy-paste: `customer-logos`
   - No spaces before/after

🎉 Success Indicators

You'll know it's working when:

1. ✅ Bucket exists with "Public" badge
2. ✅ Test upload in Supabase dashboard succeeds
3. ✅ Logo upload in app shows success message
4. ✅ Uploaded logo displays in customer profile
5. ✅ Logo persists after page reload
6. ✅ No "Bucket not found" errors

🚨 Still Having Issues?

Check These:

1. **Environment Variables** (Vercel Dashboard):
   - `DATABASE_URL` exists and points to Supabase
   - `NEXT_PUBLIC_SUPABASE_ANON_KEY` exists (if required)

2. **Supabase Project**:
   - You're in the correct project
   - Project is active (not paused)
   - Billing is okay (free tier is fine)

3. **Bucket Configuration**:
   - Name: `customer-logos`
   - Public: Yes
   - No file type restrictions

4. **Browser Console**:
   - Open DevTools (F12)
   - Check for JavaScript errors
   - Look for network request failures

Get Help:

- **Supabase Docs**: https://supabase.com/docs/guides/storage
- **Check existing guides**: `SUPABASE_STORAGE_SETUP.md`
- **Review logs**: `vercel logs` or Vercel Dashboard

📈 What Happens After Setup

Once the bucket is created and working:

1. **Super Admin** can upload customer logos
2. **Logos are stored** in Supabase cloud storage
3. **Each customer** has their own dedicated logo
4. **Customer users** see their company logo throughout the app
5. **Logos persist** across deployments (no data loss)
6. **Public URLs** allow logos to display everywhere

💰 Cost Impact

Storage Usage:
- Free tier: 1 GB storage
- Typical logo: 50-200 KB
- 100 customers = ~5-20 MB total
- **Conclusion: Free tier is more than enough!**

Bandwidth:
- Free tier: 2 GB/month
- Logo views: ~50-200 KB per view
- 10,000 views = ~1 GB
- **Conclusion: Free tier sufficient for most use cases**

🔒 Security Notes

Public Bucket = Safe?
- Yes! "Public" only means **read access**
- Only authenticated users can **upload/delete**

- File URLs are unpredictable (hard to guess)
- No sensitive data in filenames
- Use storage policies for extra security

What's Protected:
- Upload: Requires authentication
- Delete: Requires authentication
- Update: Requires authentication
- Read: Public (intentional - for displaying logos)

✅ Final Checklist

Before closing this issue:

- [ ] Bucket created in Supabase Storage
- [ ] Bucket name is `customer-logos`
- [ ] Bucket is marked as Public
- [ ] Test upload in Supabase dashboard succeeded
- [ ] Test upload in app succeeded
- [ ] Logo displays correctly
- [ ] No "Bucket not found" errors
- [ ] (Optional) Storage policies added
- [ ] Verified correct Supabase project

🎯 Next Steps

1. **Create the bucket** (2 minutes)
2. **Test an upload** (1 minute)
3. **Verify it works** (1 minute)
4. **Close this issue** ✅

📞 Need More Help?

Quick References:
- **Fast fix**: See `QUICK_FIX_CHECKLIST.md`
- **Detailed guide**: See `FIX_BUCKET_NOT_FOUND.md`
- **Visual guide**: See `BUCKET_CREATION_VISUAL_GUIDE.md`
- **Full setup**: See `SUPABASE_STORAGE_SETUP.md`

🎊 Summary

You need to:
1. Go to Supabase Storage
2. Create a bucket named `customer-logos`
3. Make it public
4. Test upload

That's it! Takes about 2 minutes. 🚀

Created: October 2025
Status: Ready to fix
Estimated Time: 2-5 minutes
Difficulty: Easy