

Troubleshooting Guide

Rate Limiting Issues

Problem: “Too many login attempts” error

Symptoms:

- Unable to login to admin portal (/admin/login)
- Unable to login to organization portal (/login)
- Error message: “Too many login attempts, please try again after 15 minutes”

Root Cause:

The application uses an in-memory rate limiter to protect authentication endpoints from brute force attacks. After multiple failed login attempts, the rate limiter blocks further login attempts for 15 minutes.

Configuration:

- **Development Mode:** 50 attempts per 15-minute window
- **Production Mode:** 5 attempts per 15-minute window
- Rate limiter configuration: `server/middleware/security.ts`

Solution 1: Restart the Application (Quick Fix)

```
# Stop all Node.js processes
kill -9 node

# Restart the application
npm run dev
```

Solution 2: Wait for Rate Limit Window to Expire

Wait 15 minutes for the rate limit window to reset automatically.

Solution 3: Adjust Rate Limiter for Testing

The rate limiter is already configured to be more lenient in development mode (50 attempts vs 5 in production). To further increase the limit, edit `server/middleware/security.ts` :

```
export const authRateLimiter = rateLimit({
  windowMs: 15 * 60 * 1000, // 15 minutes
  max: process.env.NODE_ENV === 'production' ? 5 : 100, // Increase to 100 for development
  // ... rest of configuration
});
```

Prevention:

- Use correct credentials during testing
 - In development, the rate limiter allows 50 attempts per 15 minutes
 - For load testing, consider temporarily disabling or increasing the rate limit
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Environment Variables Not Loading

Problem: Application crashes with "DATABASE_URL must be set" error

Solution:

1. Ensure `.env` file exists in the project root
 2. Verify `dotenv` package is installed: `npm install dotenv`
 3. Verify `dotenv.config()` is called at the top of `server/db.ts`
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Database Connection Issues

Problem: Cannot connect to PostgreSQL database

Solution:

1. Verify PostgreSQL is running:

```
bash
```

```
ps aux | grep postgres
```

1. Test database connection:

```
bash
```

```
PGPASSWORD=your_password psql -U bizverse_user -d bizverse_db -h localhost -c "SELECT 1;"
```

2. Check `DATABASE_URL` in `.env` file matches your PostgreSQL configuration
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Login Credentials

Platform Admin Portal (`/admin/login`)

- Email: `hugenetwork7@gmail.com`
- Password: `admin123`

Organization Portal (`/login`)

- Email: `testuser@example.com`
 - Password: `test123`
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Common Issues After Code Changes

Problem: Application not reflecting changes

Solution:

1. Clear build cache: `rm -rf dist/`
 2. Restart development server: `npm run dev`
 3. Clear browser cache or use incognito mode
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Port Already in Use

Problem: Error: “Port 5000 is already in use”

Solution:

```
# Find process using port 5000
lsof -i :5000

# Kill the process
kill -9 <PID>

# Or kill all Node.js processes
pkill -9 node
```

Getting Help

If you encounter issues not covered in this guide:

1. Check the application logs: `tail -f /tmp/bizverse.log`
 2. Check browser console for client-side errors
 3. Review server logs for detailed error messages
 4. Verify all environment variables are set correctly in `.env`
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