

# Bizverse Deployment Guide

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## Quick Start - Deploy After GitHub Update

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When you push updates to GitHub and want to deploy them to your Ubuntu machine:

```
cd /home/ubuntu/code_artifacts/bizverse
./deploy.sh
```

That's it! The script will automatically:

- Stop the running application
  - Pull latest changes from GitHub
  - Install dependencies
  - Run database migrations
  - Restart the application
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## Manual Deployment Steps

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If you prefer to deploy manually or need more control:

### 1. Navigate to Project Directory

```
cd /home/ubuntu/code_artifacts/bizverse
```

### 2. Stop Running Application

```
pkill -f "tsx server/index.ts"
# or
pkill -f "node.*bizverse"
```

### 3. Pull Latest Changes

```
# Pull main project
git pull origin main

# Pull submodule (if you have SaaSRooster)
cd SaaSRooster
git pull origin main
cd ..
```

### 4. Install Dependencies

```
npm install
```

## 5. Run Database Migrations

```
npm run db:push
```

## 6. Start Application

```
# Development mode
npm run dev > /tmp/bizverse.log 2>&1 &

# OR Production mode
npm run build
npm start > /tmp/bizverse.log 2>&1 &
```



## Checking Application Status

### Check if Application is Running

```
# Check port 5000
lsof -i :5000

# Check process
ps aux | grep tsx
```

### View Live Logs

```
tail -f /tmp/bizverse.log
```

### Test Application

```
# Check if server responds
curl http://localhost:5000

# Or open in browser
xdg-open http://localhost:5000
```



## Database Management

### PostgreSQL Commands

#### Start PostgreSQL

```
sudo service postgresql start
```

#### Stop PostgreSQL

```
sudo service postgresql stop
```

## Restart PostgreSQL

```
sudo service postgresql restart
```

## Access PostgreSQL

```
sudo -u postgres psql -d bizverse_db
```

## Database Backup

```
# Backup database
sudo -u postgres pg_dump bizverse_db > backup_$(date +%Y%m%d).sql

# Restore database
sudo -u postgres psql bizverse_db < backup_20241030.sql
```



## Admin Account Management

### Admin Credentials

- **Email:** hugenetwork7@gmail.com
- **Password:** admin123
- **Admin URL:** http://localhost:5000/admin/login

### Create/Reset Admin Account

```
cd /home/ubuntu/code_artifacts/bizverse
npx tsx server/scripts/createPlatformAdmin.ts
```

### Initialize Subscription Plans

```
npx tsx server/scripts/initSubscriptionPlans.ts
```



## Production Deployment (with PM2)

For production, it's recommended to use PM2 for process management:

### Install PM2

```
sudo npm install -g pm2
```

## Start Application with PM2

```
cd /home/ubuntu/code_artifacts/bizverse
pm2 start npm --name "bizverse" -- run dev

# OR for production
pm2 start npm --name "bizverse" -- start
```

## PM2 Commands

```
# View status
pm2 status

# View logs
pm2 logs bizverse

# Restart
pm2 restart bizverse

# Stop
pm2 stop bizverse

# Auto-start on system reboot
pm2 startup
pm2 save
```

## PM2 Deployment Script

```
cd /home/ubuntu/code_artifacts/bizverse
git pull origin main
npm install
npm run db:push
pm2 restart bizverse
```



## Setting Up with Your Domain (bizverse.in)

### Step 1: Install Nginx

```
sudo apt-get update
sudo apt-get install -y nginx
```

### Step 2: Create Nginx Configuration

```
sudo nano /etc/nginx/sites-available/bizverse
```

Add this configuration:

```
server {
    listen 80;
    server_name bizverse.in www.bizverse.in;

    location / {
        proxy_pass http://localhost:5000;
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection 'upgrade';
        proxy_set_header Host $host;
        proxy_cache_bypass $http_upgrade;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
    }
}
```

### Step 3: Enable the Site

```
sudo ln -s /etc/nginx/sites-available/bizverse /etc/nginx/sites-enabled/
sudo nginx -t
sudo systemctl restart nginx
```

### Step 4: Configure DNS on Hostinger

1. Go to Hostinger DNS management
2. Add/Update these records:
  - **A Record:** @ pointing to your Ubuntu machine's public IP
  - **A Record:** www pointing to your Ubuntu machine's public IP

### Step 5: Install SSL Certificate (Let's Encrypt)

```
sudo apt-get install -y certbot python3-certbot-nginx
sudo certbot --nginx -d bizverse.in -d www.bizverse.in
```



## Troubleshooting

### Application Won't Start

Check if port 5000 is in use:

```
lsof -i :5000
# If something is using it, kill it:
kill -9 <PID>
```

Check logs:

```
tail -50 /tmp/bizverse.log
```

### Database Connection Issues

Check if PostgreSQL is running:

```
sudo service postgresql status
```

#### Test database connection:

```
sudo -u postgres psql -d bizverse_db -c "SELECT 1;"
```

#### Check database URL in .env:

```
cat /home/ubuntu/code_artifacts/bizverse/.env | grep DATABASE_URL
```

## Git Pull Conflicts

#### Reset to GitHub version:

```
cd /home/ubuntu/code_artifacts/bizverse
git fetch origin
git reset --hard origin/main
```

#### Stash local changes:

```
git stash --include-untracked
git pull origin main
```

## Permission Issues

#### Fix file permissions:

```
sudo chown -R $USER:$USER /home/ubuntu/code_artifacts/bizverse
chmod +x /home/ubuntu/code_artifacts/bizverse/deploy.sh
```



## Application URLs

- **Main Application:** <http://localhost:5000>
- **User Login:** <http://localhost:5000/login>
- **User Signup:** <http://localhost:5000/signup>
- **Admin Login:** <http://localhost:5000/admin/login>
- **Admin Dashboard:** <http://localhost:5000/admin>



## Update Workflow

#### Recommended Workflow:

1. **Make changes locally or via GitHub**
2. **Commit and push to GitHub**

```
bash
```

```
git add .
git commit -m "Your changes"
git push origin main
```

### 3. Deploy on Ubuntu server

```
bash
ssh your-server
cd /home/ubuntu/code_artifacts/bizverse
./deploy.sh
```

### 4. Verify deployment

- Check logs: `tail -f /tmp/bizverse.log`
- Test in browser: `http://localhost:5000`
- Test admin: `http://localhost:5000/admin/login`



## Environment Variables

Key environment variables in `.env` :

```
# Database
DATABASE_URL=postgresql://bizverse_user:bizverse_secure_password_2024@localhost:5432/bizverse_db

# Application
PORT=5000
NODE_ENV=development

# Authentication
JWT_SECRET=your-jwt-secret-key-change-in-production

# Admin
SUPPORT_EMAIL=hugenetwork7@gmail.com






# Payment (PayUMoney)
PAYUMONEY_KEY=your-key
PAYUMONEY_SALT=your-salt
PAYUMONEY_MODE=test

# Email (Resend API)
RESEND_API_KEY=your-resend-key
```



## Features Checklist

- ☒ JWT-based Authentication
- ☒ Multi-tenant Organization System
- ☒ Subscription Management (Free, Basic, Pro, Enterprise)
- ☒ Admin Panel for Managing Organizations
- ☒ Admin Can Change Plans & Extend Validity
- ☒ Subscription Expiry Date on Dashboard
- ☒ Rate Limiting for Security

-  PayUMoney Integration (ready)
-  Resend Email API (ready)
-  PostgreSQL Database
-  Docker Support
-  Professional UI/UX

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## Support

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For issues or questions:

- Email: [hugenetwork7@gmail.com](mailto:hugenetwork7@gmail.com)
- Check logs: `/tmp/bizverse.log`
- GitHub Issues: [Your Repository]

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## Additional Resources

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- [Node.js Documentation](https://nodejs.org/docs/) (<https://nodejs.org/docs/>)
- [PostgreSQL Documentation](https://www.postgresql.org/docs/) (<https://www.postgresql.org/docs/>)
- [PM2 Documentation](https://pm2.keymetrics.io/docs/) (<https://pm2.keymetrics.io/docs/>)
- [Nginx Documentation](https://nginx.org/en/docs/) (<https://nginx.org/en/docs/>)
- [Let's Encrypt](https://letsencrypt.org/) (<https://letsencrypt.org/>)

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**Last Updated:** October 30, 2024