Netflix Clone - Docker & Git Deployment Summary

Weight of the Complete Deployment Package Created

I've created a comprehensive deployment package for your Netflix clone that includes everything needed to deploy on your own server using Docker and Git.

☐ Files Created for Deployment

Core Docker Files

- Dockerfile Multi-stage build configuration for optimized production deployment
- **docker-compose.yml** Complete container orchestration with health checks and networking
- nginx.conf Production-ready web server configuration with security headers
- **.dockerignore** Optimized build context (excludes unnecessary files)

Deployment Tools

- deploy.sh Automated deployment script with error handling and progress indicators
- **DEPLOYMENT_GUIDE.md** Comprehensive 30+ section deployment documentation
- QUICK_START.md Fast-track deployment instructions for quick setup
- **.gitignore** Git configuration to exclude sensitive and build files

Three Deployment Options

Option 1: Automated Deployment (Recommended)

```
chmod +x deploy.sh
./deploy.sh
```

- Automatically checks and installs Docker/Docker Compose
- Builds and deploys your Netflix clone
- Provides status updates and final access information

Option 2: Docker Compose (Manual)

```
docker-compose up -d
```

- One-command deployment for users with Docker already installed
- · Includes health checks, restart policies, and optimized networking

Option 3: Traditional Docker

```
docker build -t netflix-clone .
docker run -d -p 80:80 --name netflix-clone-app netflix-clone
```

• Basic Docker deployment for advanced users

* Key Features Included

Production-Ready Configuration

• W Multi-stage Docker build for optimized image size

- Winx reverse proxy with gzip compression and security headers
- W Health checks and automatic restart policies
- Container networking with isolated bridge network
- Resource limits and monitoring capabilities

Security & Performance

- **Security headers** (XSS protection, content type sniffing prevention)
- **Gzip compression** for faster loading
- **Static asset caching** with 1-year expiration
- React Router support with fallback to index.html
- **Firewall configuration** examples in documentation

Development & Maintenance

- **Git workflow** with proper .gitignore configuration
- **Update procedures** for seamless application updates
- **Backup strategies** with automated scripts
- Monitoring commands for health checking and troubleshooting

Server Requirements

Minimum Requirements

- OS: Ubuntu 20.04+ / CentOS 8+ / Debian 10+
- RAM: 1GB (2GB+ recommended)
- Storage: 5GB free space
- CPU: 1 core minimum
- Network: Public IP or domain name

Software Dependencies (Auto-installed by deploy.sh)

- Docker Engine 20.10+
- Docker Compose 2.0+
- Git 2.0+
- curl/wget

@ Deployment Steps Summary

- 1. Server Setup: Run the deployment script or manually install Docker
- 2. **Code Transfer**: Clone/copy your Netflix clone files to the server
- 3. **Deploy**: Execute ./deploy.sh or docker-compose up -d
- 4. Access: Visit http://localhost or http://YOUR_SERVER_IP
- 5. Configure (Optional): Set up domain, SSL, monitoring

Access Points After Deployment

- Local Access: http://localhost
- Server IP Access: http://YOUR_SERVER_IP
- **Domain Access**: http://your-domain.com (after DNS configuration)
- HTTPS Access: https://your-domain.com (after SSL setup)

☆ Management Commands

```
# View application status
docker-compose ps

# View real-time logs
docker-compose logs -f netflix-clone

# Stop application
docker-compose down

# Restart application
docker-compose restart

# Update application
git pull && docker-compose up -d --build

# System cleanup
docker system prune -f
```

III Monitoring & Health Checks

The deployment includes built-in monitoring:

- Container health checks every 30 seconds
- Automatic restart on failure
- Resource monitoring with Docker stats
- Log rotation to prevent disk space issues

Garage Security Features

- Firewall configuration examples for common platforms
- Security headers in Nginx configuration

- Non-root container execution for enhanced security
- Network isolation with Docker bridge networks
- SSL/TLS ready configuration for HTTPS deployment

Documentation Structure

- 1. QUICK_START.md Get up and running in 5 minutes
- 2. **DEPLOYMENT_GUIDE.md** Complete deployment documentation with:
 - Server setup and prerequisites
 - Docker installation and configuration
 - SSL certificate setup with Let's Encrypt
 - Domain configuration and DNS setup
 - Production optimizations and security hardening
 - Monitoring, logging, and backup strategies
 - Troubleshooting guide with common issues
 - Update and maintenance procedures

🎉 Ready to Deploy!

Your Netflix clone is now fully equipped for professional deployment. The package includes:

- Production-ready containerization
- Automated deployment scripts
- Comprehensive documentation
- Security best practices
- Monitoring and maintenance tools
- **☑** Git workflow integration

Simply transfer these files to your server and run the deployment script to have your Netflix clone live on the internet!

Support Resources

- Quick Issues: Check QUICK_START.md troubleshooting section
- Detailed Problems: Refer to DEPLOYMENT_GUIDE.md Step 8: Monitoring & Troubleshooting
- **System Diagnostics**: Use the provided diagnostic commands in the documentation
- Container Logs: docker-compose logs netflix-clone for applicationspecific issues