

# Oliver Admin Panel

Panel d'administration complet pour la plateforme Oliver - Gestion complète des utilisateurs, modération, transactions, accounting, et KYC.

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## Vue d'ensemble

Le panel admin Oliver est une application full-stack moderne permettant aux administrateurs de gérer tous les aspects de la plateforme:

-  **9 Pages complètes** - Dashboard, Users, Reports, Moderation, Transactions, Accounting, Audit Log, Settings, KYC
  -  **28 Endpoints API REST** - Backend NestJS complet
  -  **30+ Composants UI** - Interface moderne avec Shadcn/UI + Radix
  -  **Intégrations externes** - Google Vision, AWS Rekognition, Yoti KYC, SendGrid
  -  **Sécurité robuste** - JWT, RBAC, Rate Limiting, Audit Log
  -  **Performance optimisée** - React Query, Redis caching
-



## Frontend

- **Framework:** Next.js 15 (App Router)
- **Language:** TypeScript 5.3
- **State Management:** React Query (TanStack Query)
- **UI Library:** Shadcn/UI + Radix UI
- **Styling:** Tailwind CSS
- **Charts:** Recharts
- **Icons:** Lucide React
- **Forms:** Zod validation

## Backend

- **Framework:** NestJS 10
- **Language:** TypeScript 5.3
- **Database:** PostgreSQL (Prisma ORM)
- **Cache:** Redis (ioredis)
- **Authentication:** JWT (Passport)
- **Validation:** Zod schemas
- **API Docs:** Swagger/OpenAPI

## Services Externes

- **Storage:** AWS S3
- **AI Moderation:** Google Vision API, AWS Rekognition
- **KYC Provider:** Yoti
- **Email:** SendGrid
- **Monitoring:** (Sentry, Datadog - à configurer)

## DevOps

- **Containerization:** Docker + Docker Compose
  - **CI/CD:** GitHub Actions
  - **Hosting:** AWS / Vercel (Frontend) + AWS EC2/ECS (Backend)
- 

## Structure du Projet

```
oliver-admin/
|   └── apps/
|       |   └── web/          # Next.js Frontend
|           |       └── app/
|               |           |   └── (admin)/    # Admin routes group
|               |           |       └── dashboard/
|               |           |       └── users/
|               |           |       └── reports/
|               |           |       └── moderation/
|               |           |       └── transactions/
|               |           |       └── accounting/
|               |           |       └── audit-log/
|               |           |       └── settings/
|               |           └── kyc/
|               |       └── api/      # API routes (optional)
|           └── components/
|               |       └── admin/    # Admin-specific components
|                   └── ui/        # Reusable UI components
|               └── hooks/
|                   └── admin/    # Custom React hooks
|               └── lib/
|                   |   └── admin/
|                   |       └── api-client.ts
|                   └── utils.ts
|               └── package.json
|
|   └── api/          # NestJS Backend
|       └── src/
|           |   └── modules/
|           |       |   └── admin/    # Admin module
|           |       |   └── ai-moderation/
|           |       |   └── kyc-provider/
|           |       |   └── storage/
|           |       |   └── email/
|           |       |   └── database/
|           |       |       └── cache/
|           |       |   └── common/
|           |       |       └── guards/
|           |       |       └── pipes/
|           |       |       └── interceptors/
|           |       └── main.ts
|       └── package.json
|
|   └── packages/
|       |   └── database/
|           |       └── prisma/
```

```
schema.prisma
migrations/
  seed.ts
shared/
  types/
docker-compose.yml
.github/
  workflows/
    deploy.yml
README.md
```

## ✓ Prérequis

### Obligatoire

- **Node.js** >= 18.x
- **npm** >= 9.x ou **pnpm** >= 8.x
- **PostgreSQL** >= 14
- **Redis** >= 7
- **Docker** >= 20.x (optionnel mais recommandé)

### Services Externes

- **AWS Account** (S3, Rekognition)
- **Google Cloud** (Vision API)
- **Yoti Account** (KYC)
- **SendGrid Account** (Email)

## 🚀 Installation

### 1. Cloner le repository

```
bash
git clone https://github.com/votre-org/oliver-admin.git
cd oliver-admin
```

### 2. Installer les dépendances

```
bash
```

```
# Root (si monorepo)
```

```
npm install
```

```
# OU installer individuellement
```

```
cd apps/web && npm install
```

```
cd ../api && npm install
```

```
cd ../../packages/database && npm install
```

### 3. Setup Docker (Recommandé)

```
bash
```

```
# Démarrer PostgreSQL + Redis
```

```
docker-compose up -d postgres redis
```

OU installer manuellement PostgreSQL et Redis localement.

---

## ⚙️ Configuration

### 1. Backend Environment Variables

Créer `(apps/api/.env)`:

```

env

# Database
DATABASE_URL="postgresql://oliver:oliver_password@localhost:5432/oliver_db"

# Redis
REDIS_HOST="localhost"
REDIS_PORT="6379"
REDIS_PASSWORD=""

# JWT
JWT_SECRET="your-super-secret-jwt-key-change-this-in-production"
JWT_EXPIRY="7d"

# AWS
AWS_ACCESS_KEY_ID="your-aws-access-key"
AWS_SECRET_ACCESS_KEY="your-aws-secret-key"
AWS_REGION="us-east-1"
S3_BUCKET="oliver-storage"
S3_BUCKET_KYC="oliver-kyc-documents"

# Google Cloud
GOOGLE_VISION_KEY_PATH="/path/to/google-vision-credentials.json"

# Yoti KYC
YOTI_CLIENT_SDK_ID="your-yoti-client-sdk-id"
YOTI_KEY_FILE_PATH="/path/to/yoti-key.pem"

# SendGrid
SENDGRID_API_KEY="your-sendgrid-api-key"
FROM_EMAIL="no-reply@oliver.com"

# App
PORT=4000
NODE_ENV="development"

# Monitoring (Optional)
SENTRY_DSN=""
DATADOG_API_KEY=""

```

## 2. Frontend Environment Variables

Créer `apps/web/.env.local`:

```
env
```

```
NEXT_PUBLIC_API_URL=http://localhost:4000/api
```

```
NODE_ENV=development
```

### 3. Database Setup

```
bash
```

```
cd packages/database
```

```
# Generate Prisma Client
```

```
npx prisma generate
```

```
# Run migrations
```

```
npx prisma migrate dev
```

```
# Seed database with admin user
```

```
npx prisma db seed
```

#### Credentials par défaut après seed:

- Email: `admin@oliver.com`
  - Password: `Admin123!`
- 

## 🎬 Lancement

### Mode Développement

#### Option 1: Docker Compose (Recommandé)

```
bash
```

```
# Démarrer tous les services
```

```
docker-compose up
```

```
# Frontend: http://localhost:3000
```

```
# Backend API: http://localhost:4000
```

```
# API Docs: http://localhost:4000/api/docs
```

#### Option 2: Manuel

##### Terminal 1 - Backend:

```
bash  
  
cd apps/api  
npm run start:dev  
# API disponible sur http://localhost:4000
```

## Terminal 2 - Frontend:

```
bash  
  
cd apps/web  
npm run dev  
# App disponible sur http://localhost:3000
```

## Terminal 3 - Database (si pas Docker):

```
bash  
  
# Démarrer PostgreSQL et Redis manuellement
```

## Mode Production

```
bash  
  
# Build backend  
cd apps/api  
npm run build  
npm run start:prod  
  
# Build frontend  
cd apps/web  
npm run build  
npm run start
```

## Fonctionnalités

### 1. Dashboard

- **Métriques clés:** Revenue, Users, Conversion, Reports
- **Charts:** Sales overview (revenue + payouts)
- **Transactions récentes:** 10 dernières transactions
- **Quick stats:** Avg transaction, subscriptions, earnings
- **Période sélectionnable:** 7d / 30d / 90d

## 2. Users Management

- **Liste complète des utilisateurs avec filtres**
- **Recherche** par nom, email, username
- **Filtres:** Role (Admin/Creator/Fan), Status (Verified/Pending/Suspended)
- **Bulk actions:** Suspend, Reset password multiple users
- **User detail modal:** Vue complète de l'utilisateur
- **Export CSV** des utilisateurs

## 3. Reports & Flags

- **Queue de reports** avec priorités
- **Filtres:** Type (User/Post/Message), Severity, Status
- **Panel de détail** avec tabs (Content, Context, History)
- **Actions:** Dismiss, Warn, Ban, Approve
- **Assign à moderator**

## 4. Moderation Queue

- **Dark mode UI** pour protection des yeux
- **Content blur** avec unblur button
- **AI Analysis:** Scores violence, adult, hate, spam
- **Batch review:** Review multiple items
- **Actions:** Approve, Reject, Escalate

## 5. Transactions

- **Liste complète** avec filtres (Date, Type, Status)
- **Charts:** Revenue trend, Payouts trend
- **Transaction details** avec user info
- **Refund capability** pour admins
- **Export CSV**

## 6. Accounting & Export

- **Financial summary:** Revenue, Fees, Commission, Net Profit
- **Revenue breakdown:** Subscriptions, PPV, Tips
- **Export reports:** CSV, XLSX, PDF
- **Export history:** Track tous les exports avec download links
- **Period selector:** Day, Week, Month, Year

## 7. Audit Log

- **Timeline view** de toutes les actions admin
- **Filtres:** Actor, Action type, Date range
- **Metadata expansion:** Détails complets de chaque action
- **Technical info:** IP, Device, User Agent
- **Export CSV** pour compliance

## 8. Settings

- **3 Tabs:** General, Security, API
- **General:** Platform name, Contact email, Dark mode, Auto backup
- **Security:** Password length, 2FA requirement, IP whitelist
- **API:** Key management avec copy & reset

## 9. KYC Validation

- **User info** complète
- **AI Confidence scores:** Identity match, Liveness, Document authenticity
- **Document viewer:** 4 documents (ID front/back, Selfie, Proof)
- **Verification checklist:** Guide pour review
- **Actions:** Approve, Reject (with reason), Request senior review

# API Documentation

## Swagger UI

Démarrer le backend et visiter:

http://localhost:4000/api/docs

## Endpoints Principaux

### Authentication

- `POST /api/auth/login` - Login admin
- `POST /api/auth/logout` - Logout
- `POST /api/auth/refresh` - Refresh token

### Dashboard

- `GET /api/admin/dashboard/metrics?period=30d`
- `GET /api/admin/dashboard/sales?period=30d`
- `GET /api/admin/dashboard/transactions?limit=10`

### Users

- `GET /api/admin/users` - List users
- `GET /api/admin/users/:id` - Get user details
- `POST /api/admin/users/:id/suspend` - Suspend user
- `POST /api/admin/users/:id/reset-password` - Reset password
- `POST /api/admin/users/bulk-suspend` - Bulk suspend
- `GET /api/admin/users/export.csv` - Export CSV

### Reports

- `GET /api/admin/reports` - List reports
- `PATCH /api/admin/reports/:id` - Update report
- `POST /api/admin/reports/:id/assign` - Assign moderator

### Moderation

- `GET /api/admin/moderation/queue` - Get queue
- `POST /api/admin/moderation/decision` - Make decision

## Transactions

- `GET /api/admin/transactions` - List transactions
- `GET /api/admin/transactions/trends` - Get trends
- `POST /api/admin/transactions/:id/refund` - Refund

## Accounting

- `GET /api/admin/accounting/summary` - Get summary
- `POST /api/admin/accounting/export` - Export data
- `GET /api/admin/accounting/exports/:id/download` - Download export

## Audit Log

- `GET /api/admin/audit-log` - Get logs
- `GET /api/admin/audit-log/export.csv` - Export CSV

## Settings

- `GET /api/admin/settings` - Get settings
- `PATCH /api/admin/settings` - Update settings
- `POST /api/admin/settings/api-key/reset` - Reset API key

## KYC

- `GET /api/admin/kyc/pending` - Get pending KYCs
- `GET /api/admin/kyc/:id` - Get KYC details
- `POST /api/admin/kyc/:id/approve` - Approve KYC
- `POST /api/admin/kyc/:id/reject` - Reject KYC

---

## Déploiement

### Production Checklist

- Mettre à jour toutes les variables d'environnement
- Changer JWT\_SECRET
- Configurer SSL/HTTPS
- Setup monitoring (Sentry, Datadog)
- Configurer backups automatiques PostgreSQL
- Setup CDN pour assets statiques
- Activer rate limiting strict
- Configurer log aggregation
- Setup alerting
- Load testing

## Option 1: AWS (Recommandé)

### Frontend (Vercel):

```
bash

# Connect to Vercel
vercel

# Deploy
vercel --prod
```

### Backend (AWS ECS):

```
bash

# Build Docker image
docker build -t oliver-api:latest ./apps/api

# Tag & Push to ECR
aws ecr get-login-password --region us-east-1 | docker login --username AWS --password-stdin YOUR_ECR
docker tag oliver-api:latest YOUR_ECR/oliver-api:latest
docker push YOUR_ECR/oliver-api:latest

# Update ECS service
aws ecs update-service --cluster oliver-cluster --service oliver-api --force-new-deployment
```

## Option 2: Docker Compose (VPS)

```
bash
```

```
# Sur le serveur de production
git clone https://github.com/votre-org/oliver-admin.git
cd oliver-admin

# Copier .env files
cp apps/api/.env.example apps/api/.env
cp apps/web/.env.local.example apps/web/.env.local

# Éditer les .env avec les vraies credentials

# Build et démarrer
docker-compose -f docker-compose.prod.yml up -d

# Setup reverse proxy (Nginx)
# Configurer SSL avec Let's Encrypt
```

## GitHub Actions CI/CD

Le workflow `github/workflows/deploy.yml` est déjà configuré pour:

- Linter & Type checking
  - Run tests
  - Build Docker images
  - Deploy to AWS ECS
  - Notify Slack
- 

## Tests

### Unit Tests

```
bash

# Backend
cd apps/api
npm run test

# Frontend
cd apps/web
npm run test
```

## E2E Tests

```
bash

# Backend
cd apps/api
npm run test:e2e

# Frontend (Playwright)
cd apps/web
npx playwright test
```

## Coverage

```
bash

npm run test:cov
```

## Sécurité

### Implémenté

-  **JWT Authentication** avec refresh tokens
-  **RBAC** (Role-Based Access Control)
-  **Permissions granulaires** par feature
-  **Rate Limiting** (100 req/min par user)
-  **Input validation** avec Zod schemas
-  **SQL Injection protection** via Prisma
-  **XSS protection** via React + sanitization
-  **CSRF protection** via Helmet
-  **Audit Log** complet de toutes les actions
-  **Password hashing** avec bcrypt
-  **Secure cookies** httpOnly + secure
-  **CORS** configuré strictement

### À Implémenter

- **⚠️ 2FA** pour tous les admins
- **⚠️ IP Whitelisting** enforcement
- **⚠️ Brute force protection** avancé
- **⚠️ Session management** avec Redis
- **⚠️ Secrets rotation** automatique
- **⚠️ Security headers** additionnels (CSP)

## Security Audit

Avant production, exécuter:

```
bash

# Scan dépendances
npm audit

# Scan OWASP
npm run security:scan

# Penetration testing
# Engager une société spécialisée
```

## 📊 Monitoring & Logging

### Setup Sentry (Errors)

```
typescript

// apps/api/src/main.ts
import * as Sentry from '@sentry/node';

Sentry.init({
  dsn: process.env.SENTRY_DSN,
  environment: process.env.NODE_ENV,
});
```

### Setup Datadog (APM)

typescript

```
// apps/api/src/main.ts
import tracer from 'dd-trace';

tracer.init({
  hostname: 'datadog-agent',
  port: 8126,
});
```

## Logs

Tous les logs sont centralisés:

- **Backend:** Console → CloudWatch / ELK
  - **Frontend:** Console → Vercel Logs
  - **Audit Log:** PostgreSQL table
- 

## 🤝 Contributing

### Code Style

- **Formatter:** Prettier
- **Linter:** ESLint
- **Pre-commit hooks:** Husky + lint-staged

bash

```
# Format code
npm run format

# Lint
npm run lint

# Type check
npm run type-check
```

## Pull Request Process

1. Create feature branch: `(git checkout -b feature/ma-feature)`

2. Commit changes: `(git commit -m "feat: ajout feature X")`

3. Push: `(git push origin feature/ma-feature)`

4. Open Pull Request sur GitHub

5. Wait for review & CI/CD checks

6. Merge après approval

---

## Support

### Documentation

- **API Docs:** <http://localhost:4000/api/docs>
- **Prisma Docs:** <https://www.prisma.io/docs>
- **Next.js Docs:** <https://nextjs.org/docs>
- **NestJS Docs:** <https://docs.nestjs.com>

### Issues

Ouvrir une issue sur GitHub: <https://github.com/votre-org/oliver-admin/issues>

### Contact

- **Email:** [dev@oliver.com](mailto:dev@oliver.com)
  - **Slack:** #oliver-admin-dev
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## License

MIT License - Copyright (c) 2025 Oliver Platform

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## Crédits

Développé par l'équipe Oliver avec ❤️

**Technologies utilisées:**

- Next.js, React, TypeScript
  - NestJS, Prisma, PostgreSQL
  - Shadcn/UI, Tailwind CSS, Radix UI
  - AWS, Google Cloud, Yoti, SendGrid
- 

## Roadmap

### Phase 2 (Q2 2025)

- Advanced Analytics Dashboard
- Real-time notifications (WebSockets)
- Multi-language support (i18n)
- Mobile responsive admin panel
- Advanced reporting & BI

### Phase 3 (Q3 2025)

- Machine Learning fraud detection
  - Automated content moderation
  - Revenue forecasting
  - Customer segmentation
  - A/B testing framework
- 

Happy Coding! 