# **Configuration Annotation Summary**

## **Task Completed Successfully**

All configuration files in the microservices setup have been annotated with clear instructional comments for credentials, API keys, domain names, and other environment-specific settings.

#### **Statistics**

- Total annotations added: 254 "CHANGE THIS TO" comments
- Files annotated: 19 configuration files
- Backup files created: 28 original files backed up to /tmp/config-backups/

### **Breakdown by File Type:**

- Environment files (.env): 106 annotations
   Docker Compose files: 58 annotations
   Nginx configuration files: 16 annotations
- Shell scripts: 18 annotationsOther config files: 56 annotations

### **Files That Were Annotated**

## **Environment Configuration Files**

- 1. .env Main environment file
- 2. .env.microservices.example Microservices environment template
- 3. app/.env Main website environment
- 4. app/.env.example Main website environment template
- 5. services/admin-backend/.env.example Admin backend configuration
- 6. services/blog-backend/.env.example Blog backend configuration
- 7. services/payment-service/.env.example Payment service configuration

#### **Docker Compose Files**

- 1. docker-compose.microservices.yml Production microservices setup
- 2. docker-compose.prod.yml Production single-container setup
- 3. docker-compose.staging.yml Staging environment setup
- 4. docker-compose.dev.yml Development environment setup

## **Nginx Configuration Files**

- 1. nginx/microservices.conf Microservices reverse proxy
- 2. nginx/prod.conf Production nginx configuration
- 3. nginx/staging.conf Staging nginx configuration
- 4. nginx/dev.conf Development nginx configuration
- 5. nginx/common.conf Common nginx settings

## **Deployment and Database Scripts**

- 1. scripts/deploy-microservices.sh Microservices deployment
- 2. scripts/deploy.sh Main deployment script
- 3. scripts/deploy\_staging.sh Staging deployment
- 4. scripts/deploy\_dev.sh Development deployment
- 5. scripts/server\_init.sh Server initialization
- 6. scripts/backup.sh Database backup script
- 7. scripts/db\_migrate.sh Database migration script
- 8. scripts/rollback.sh Rollback script
- 9. scripts/init-db.sql Database initialization
- 10. scripts/init-multiple-databases.sh Multi-database setup
- 11. scripts/postgres.conf PostgreSQL configuration
- 12. scripts/redis.conf Redis configuration

## **Cloud Configuration**

1. cloud-init/cloud-init.yaml - Cloud server initialization

## **Types of Settings Annotated**

### 1. Database Configuration

- · PostgreSQL connection strings and credentials
- · Database names and user accounts
- Connection parameters

#### 2. Security Secrets

- JWT secret keys
- Session secrets
- NextAuth secrets
- Internal webhook secrets

#### 3. Payment Integration

- YooKassa Shop ID and Secret Key
- YooKassa Webhook Secret
- · Payment service URLs

#### 4. Email Configuration

- SMTP server settings (host, port, security)
- Email credentials and app passwords
- From addresses and sender configuration

#### 5. Domain and URL Configuration

- Main domain names
- Subdomain configurations (admin, blog)
- · API endpoints and service URLs
- CORS allowed origins

## 6. Analytics and Tracking

- Google Analytics 4 Measurement IDs
- Facebook Pixel IDs
- · Microsoft Clarity Project IDs

#### 7. SSL and Security

- · SSL certificate paths
- · Certificate email addresses
- · Security headers configuration

## 8. Redis Configuration

- Redis connection URLs
- · Redis authentication passwords
- Cache configuration

## 9. File Upload Settings

- · Maximum file sizes
- · Allowed file types
- Upload directories

### 10. Monitoring and Logging

- · Health check intervals
- Monitoring email addresses
- · Log levels and retention

## **Tools Created**

## 1. Configuration Guide ( CONFIGURATION\_GUIDE.md )

Comprehensive guide explaining:

- How to obtain each type of credential
- Step-by-step configuration instructions
- Environment-specific considerations
- Security best practices
- Testing procedures

## 2. Verification Script ( verify\_config.py )

Automated script that:

- Checks for unchanged default values
- Identifies missing critical configurations
- Validates domain names and URLs
- Provides actionable feedback
- Generates configuration reports

## **Example Annotations Added**

#### **Environment Variables**

```
# CHANGE THIS TO: A strong PostgreSQL password (generate with: openssl rand -base64 32)
POSTGRES_PASSWORD=secure_postgres_password_change_this

# CHANGE THIS TO: Your YooKassa Shop ID (get from: https://yookassa.ru/my/shop/integration)
YOOKASSA_SHOP_ID=your_yookassa_shop_id

# CHANGE THIS TO: Your email app password (Gmail: generate at https://myaccount.google.com/apppasswords)
SMTP_PASS=your_app_password
```

#### **Nginx Configuration**

```
# CHANGE THIS TO: Your actual domain names
server_name localhost courseplatform.local;

# CHANGE THIS TO: Path to your SSL certificate file
ssl_certificate /etc/nginx/ssl/yourdomain.com.crt;
```

#### **Docker Compose**

```
# CHANGE THIS TO: Use strong password from .env file
POSTGRES_PASSWORD: ${POSTGRES_PASSWORD:-postgres123}

# CHANGE THIS TO: Your main website URL (with https://)
- NEXTAUTH_URL=${NEXTAUTH_URL:-http://localhost:3000}
```

## **Next Steps for Users**

- 1. Review the Configuration Guide: Read CONFIGURATION\_GUIDE.md for detailed instructions
- 2. Copy Environment Files: Copy .example files to actual .env files
- 3. Update All Values: Replace all values marked with "CHANGE THIS TO" comments
- 4. Run Verification: Use python3 verify\_config.py to check your configuration
- 5. Test Configuration: Deploy to staging environment first
- 6. Deploy to Production: Once verified, deploy to production

## **Security Notes**

- · All original files backed up before modification
- No actual credentials were added (only instructional comments)
- Users must generate their own secure secrets
- · Verification script helps ensure no defaults remain
- · Guide includes security best practices

# **Support**

If users encounter issues:

- 1. Check the verification script output
- 2. Review the configuration guide
- 3. Examine application logs
- 4. Verify external service configurations
- 5. Test individual components

The annotation system provides clear, actionable guidance for every configuration value that needs to be changed, making the setup process much more user-friendly and reducing the chance of configuration errors.