IkeaDocuScan V3 - Deployment Checklist

Quick Reference Guide for IKEA Deployment

Framework: .NET 10.0 **Organization:** IKEA (ikea.com)

Print this checklist and check off items as you complete them during deployment.

Pre-Deployment (Day Before)

- ☐ Backup production database
- ☐ Backup current appsettings.Local.json
- ☐ Backup current secrets.encrypted.json
- ☐ Document current version: _____
- ☐ Verify .NET 10.0 Runtime installed on server
- ☐ Verify ASP.NET Core Hosting Bundle 10.0 installed
- ☐ Schedule maintenance window
- ☐ Notify users of deployment

Version Management

- ☐ Open `IkeaDocuScan-Web.csproj`
- ☐ Update `<VersionPrefix>` to: _____
- ☐ Update `<VersionSuffix>` to: _____
- ☐ Save file
- ☐ Rebuild solution successfully

Publishing

- ☐ Clean solution
- ☐ Rebuild solution (no errors)
- ☐ Right-click IkeaDocuScan-Web → Publish
- ☐ Select/Create publish profile
- ☐ Verify settings: Release, net10.0, Framework-dependent
- ☐ Click Publish
- ☐ Verify publish succeeded
- ☐ Note publish path: _____
- ☐ Copy DbMigration-scripts to publish folder
- ☐ Copy ConfigEncryptionTool to Tools folder
- ☐ Create deployment ZIP file
- ☐ Transfer ZIP to server

Database

- ☐ Production database backup restored
- ☐ OR new database created: `IkeaDocuScan`
- ☐ Migration scripts executed in order (ALL 8 scripts):
  - ☐ 00_Create_Database_And_User.sql
  - ☐ 00A_Restore_And_Migrate_Schema.sql

- [ ] 02_Migrate_FK_Data.sql
- [ ] 03_Finalize_FK_Constraints.sql
- [ ] 04_Create_DocuScanUser_Table.sql
- [ ] 05_Migrate_Users_To_DocuScanUser.sql
- [ ] 06_Add_FK_Constraint_UserPermissions.sql
- [ ] 07_Remove_AccountName_From_UserPermissions.sql

- [ ] Verify docuscanch login exists
- [ ] Verify docuscanch user has database access
- [ ] Connection tested with docuscanch user
- [ ] Database configuration verified (TBD)

File Deployment

- [ ] Stop IIS Application Pool
- [ ] Extract ZIP to: `C:\inetpub\wwwroot\IkeaDocuScan`
- [ ] Verify key files present:
  - [ ] IkeaDocuScan-Web.dll
  - [ ] web.config
  - [ ] wwwroot_framework
  - [ ] DbMigration-scripts*.sql
  - [ ] Tools
- [ ] Create `logs` directory
- [ ] Set file permissions

IIS Configuration

Application Pool

- [ ] Create Application Pool: `IkeaDocuScan`
- [ ] .NET CLR version: No Managed Code
- [ ] Managed pipeline mode: Integrated
- [ ] Advanced Settings:
  - [ ] Identity: ApplicationPoolIdentity (or service account)
  - [ ] Idle Time-out: 0
  - [ ] Load User Profile: True
  - [ ] Start Mode: AlwaysRunning

Website/Application

- [ ] Create website OR application
- [ ] Bind to Application Pool: `IkeaDocuScan`
- [ ] Physical path: `C:\inetpub\wwwroot\IkeaDocuScan`
- [ ] HTTPS binding configured
- [ ] SSL certificate selected

Authentication

- [ ] Anonymous Authentication: **Disabled**
- [ ] Windows Authentication: **Enabled**
- [ ] Extended Protection: Accept
- [ ] Kernel-mode authentication: Enabled

WebSocket

- [ ] WebSocket Protocol feature installed
- [ ] Enabled for application

Application Configuration

- [ ] Run ConfigEncryptionTool as App Pool identity
  - [ ] Enter SQL Server name
  - [ ] Use SQL auth: docuscanch user
  - [ ] Enter docuscanch password
  - [ ] Enter ScannedFilesPath
  - [ ] Verify encryption test succeeds
  - [ ] Copy secrets.encrypted.json to app root
- [ ] Create `appsettings.Local.json`:
  - [ ] IkeaDocuScan → DomainName (ikea.com)
  - [ ] IkeaDocuScan → UserEmail LDAP settings
  - [ ] IkeaDocuScan → EmailGroups LDAP settings
  - [ ] IkeaDocuScan → IKEA AD Groups (3):
    - [ ] ADGroupReader
    - [ ] ADGroupPublisher
    - [ ] ADGroupSuperUser
  - [ ] Email → SmtpHost (smtp-gw.ikea.com)
  - [ ] Email → ApplicationUrl
  - [ ] ExcelExport → ApplicationUrl
- [ ] Verify configuration file permissions

File Permissions

- [ ] Application directory: Read & Execute for App Pool
- [ ] Logs directory: Modify for App Pool
- [ ] Scanned files path: Read & Execute for App Pool
- [ ] Configuration files: Read for App Pool only
- [ ] Test file access as App Pool identity

Windows Authentication

- [ ] Verify IKEA AD groups exist:
  - [ ] UG-DocScanningReaders-CG@WAL-FIN-CH-GEL
  - [ ] UG-DocScanningPublishers-CG@WAL-FIN-CH-GEL
  - [ ] UG-DocScanningSuperUsers-CG@WAL-FIN-CH-GEL
- [ ] Verify LDAP connectivity (LDAP://DC=ikea,DC=com)
- [ ] Add initial admin user(s) to SuperUser AD group
- [ ] Database seeding for initial admin (TBD)

Post-Deployment Verification

Application Status

- [ ] Application Pool started
- [ ] Check stdout logs for startup success
- [ ] Check Event Viewer for errors
- [ ] Browse to application URL successfully

Functionality Tests

- [ ] Home page loads
- [ ] Windows Authentication works automatically
- [ ] User sees correct access based on AD group
- [ ] Documents → Search works
- [ ] View document details
- [ ] Access scanned files
- [ ] Generate Excel export
- [ ] Email notifications work (if enabled)

Health Checks

- [ ] /health returns “Healthy”
- [ ] /health/ready returns JSON
- [ ] /health/live returns JSON

Version Verification

- [ ] Verify version number: _____
- [ ] Check file version of IkeaDocuScan-Web.dll

Common Issues Quick Reference

Pool Stops Immediately: - Check stdout logs - Verify .NET 10.0 Runtime: `dotnet --list-runtimes`

Database Connection Fails: - Verify secrets.encrypted.json exists - Test: `sqlcmd -S SERVER -d IkeaDocuScan -U docuscanch -P [password]` - Verify docuscanch user exists and has access - Re-run ConfigEncryptionTool if password incorrect

Windows Auth Not Working: - Disable Anonymous Authentication - Enable Windows Authentication - Check browser Intranet zone settings

Cannot Access Files: - Test as App Pool identity: `runas /user:"IIS APPPOOL\IkeaDocuScan" "cmd.exe"` - Verify network share permissions

SignalR Not Working: - Install WebSocket Protocol feature - Check ARR proxy settings

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Rollback (If Needed)

- [ ] Stop Application Pool
- [ ] Restore previous files from backup
- [ ] Restore appsettings.Local.json
- [ ] Rollback database (if migrations applied)
- [ ] Start Application Pool
- [ ] Verify functionality

Sign-Off

Role	Name	Signature	Date/Time
Deployer			
Technical Lead			
QA/Tester			

Deployment Notes:

```
[Space for notes about any issues, deviations, or special configurations]
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Next Steps

- [ ] Monitor application logs for 24 hours
- [ ] Review Performance Monitor metrics
- [ ] Schedule smoke testing (see SMOKE_TEST.md when available)
- [ ] Update documentation with any environment-specific details
- [ ] Notify users deployment is complete

Deployment Completed: _____ **Environment:** ☐ Production ☐ Staging ☐ UAT **Version Deployed:** _____