Odoo Production Environment Health Checklist

The Complete 47-Point Deployment Verification Guide

Document Information:

- **Version:** 2.1
- **Last Updated:** September 2025
- **Created by:** Aria Shaw
- **Purpose:** Pre-production verification for Odoo deployments

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Pre-Checklist Instructions

How to Use This Checklist:

1. ☑ Check each completed item
2. ❌ Mark any failed items for immediate attention
3. ⚠ Note items that need monitoring or follow-up
4. **Do NOT deploy to production until all items are ☑**

Severity Levels:

- 🔴 **Critical:** Must be completed - deployment blocking
- 🟡 **Important:** Should be completed - affects performance/security
- 🟢 **Recommended:** Nice to have - improves operational efficiency

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Security Hardening (12 Checkpoints)

Core Security Configuration

☐ **1.** 🔴 Admin password changed from default and stored securely

- ☐ Password is 32+ characters with mixed case, numbers, symbols
- ☐ Password stored in team password manager
- ☐ Default admin password documented nowhere in plain text

☐ **2.** 🔴 Database list disabled (`list_db = False`)

- ☐ Verified `list_db = False` in `/etc/odoo/odoo.conf`
- ☐ Tested that `/web/database/manager` returns access denied
- ☐ No database enumeration possible via web interface

☐ **3.** 🔴 Firewall configured to block direct port 8069 access

- ☐ UFW or equivalent firewall active and configured
- ☐ Port 8069 blocked from external access
- ☐ Only HTTP (80) and HTTPS (443) accessible externally

- [ ] SSH access restricted to management IPs only

Network Security

☐ **4.** 🔴 Reverse proxy (nginx/Apache) properly configured

- [ ] Odoo running behind reverse proxy
- [ ] `proxy_mode = True` set in Odoo configuration
- [ ] Proper X-Forwarded headers configured
- [ ] SSL termination handled by proxy

☐ **5.** 🔴 SSL certificate installed and auto-renewal configured

- [ ] Valid SSL certificate installed (Let's Encrypt or commercial)
- [ ] Certificate auto-renewal configured and tested
- [ ] HTTP redirects to HTTPS enforced
- [ ] SSL Labs test score A or A+

☐ **6.** 🟡 Network interface bindings secured

- [ ] `xmlrpc_interface = 127.0.0.1` (localhost only)
- [ ] `netrpc_interface = 127.0.0.1` (localhost only)
- [ ] No external direct access to Odoo service

Database Security

☐ **7.** 🔴 PostgreSQL security hardening completed

- [ ] PostgreSQL user created with minimal required permissions
- [ ] Database password is strong (32+ characters)
- [ ] `listen_addresses = 'localhost'` (unless separated architecture)
- [ ] PostgreSQL version 12+ installed

☐ **8.** 🔴 Database authentication configured

- [ ] `password_encryption = scram-sha-256` enabled
- [ ] Connection logging enabled (`log_connections = on`)
- [ ] Failed authentication attempts logged
- [ ] No trust authentication methods for production databases

System Security

☐ **9.** 🔴 Dedicated odoo user configured (never run as root)

- [ ] System user `odoo` created with restricted permissions
- [ ] Odoo service runs as non-root user
- [ ] Home directory `/opt/odoo` properly secured
- [ ] No sudo access for odoo user

☐ **10.** 🟡 File permissions properly configured

- [ ] Configuration file `/etc/odoo/odoo.conf` owned by root:odoo (640)

- ☐ Log directory `/var/log/odoo` owned by odoo:odoo (750)
- ☐ Odoo installation files have appropriate permissions
- ☐ No world-readable sensitive files

☐ **11.** 🟡 System updates and security patches current

- ☐ Operating system fully updated
- ☐ Security patches applied and documented
- ☐ Update schedule established (monthly minimum)
- ☐ Critical security notifications configured

☐ **12.** 🟡 Additional security measures implemented

- ☐ Fail2ban configured for SSH and web services
- ☐ Intrusion detection system configured (optional)
- ☐ Security monitoring alerts configured
- ☐ Regular security audit schedule established

Performance Optimization (14 Checkpoints)

Worker Process Configuration

☐ **13.** 🔴 Worker processes calculated and configured correctly

- ☐ Worker count based on CPU cores: `(cores × 2) + 1`
- ☐ Workers setting matches available RAM capacity
- ☐ `max_cron_threads = 2` configured appropriately
- ☐ Worker recycling limits configured

☐ **14.** 🔴 Memory limits properly configured

- ☐ `limit_memory_hard = 2684354560` (2.5GB) configured
- ☐ `limit_memory_soft = 2147483648` (2GB) configured
- ☐ `limit_request = 8192` configured
- ☐ Memory limits tested under load

☐ **15.** 🔴 Request timeout limits configured

- ☐ `limit_time_cpu = 600` (10 minutes) configured
- ☐ `limit_time_real = 1200` (20 minutes) configured
- ☐ Timeouts appropriate for business processes
- ☐ Long-running operations identified and optimized

Database Performance

☐ **16.** 🔴 PostgreSQL performance tuning completed

- ☐ `shared_buffers` set to 25% of total RAM
- ☐ `effective_cache_size` set to 75% of total RAM
- ☐ `work_mem` configured appropriately (10-20MB)

- ☐ `maintenance_work_mem` set (512MB-1GB)

☐ **17.** 🔴 Database connections properly managed

- ☐ `max_connections` set appropriately (100-200)
- ☐ `db_maxconn` configured in Odoo (64 recommended)
- ☐ Connection pooling tested under load
- ☐ No connection exhaustion during peak usage

☐ **18.** 🟡 Database maintenance scheduled

- ☐ VACUUM ANALYZE scheduled (weekly minimum)
- ☐ Database statistics updated regularly
- ☐ Index maintenance scheduled
- ☐ Slow query monitoring configured

System Performance

☐ **19.** 🔴 Storage performance optimized

- ☐ SSD storage used for database files
- ☐ Sufficient disk space allocated (20% buffer minimum)
- ☐ Disk I/O monitored and optimized
- ☐ No storage bottlenecks identified

☐ **20.** 🟡 Caching configured

- ☐ Redis or memcached configured (if applicable)
- ☐ Database query caching enabled
- ☐ Static file caching configured in reverse proxy
- ☐ Cache hit rates monitored

☐ **21.** 🟡 Load testing completed

- ☐ System tested with expected user load
- ☐ Performance benchmarks established
- ☐ Bottlenecks identified and addressed
- ☐ Capacity planning documentation created

Resource Monitoring

☐ **22.** 🔴 System resource baselines established

- ☐ CPU usage baseline documented (< 70% average)
- ☐ Memory usage baseline documented (< 80% average)
- ☐ Disk I/O baseline documented
- ☐ Network usage baseline documented

☐ **23.** 🟡 Performance monitoring configured

- ☐ Resource usage tracking automated
- ☐ Performance degradation alerts configured

- ☐ Trend analysis tools configured
- ☐ Performance reports scheduled

☐ **24.** 🟡 Capacity planning implemented

- ☐ Growth projections documented
- ☐ Scaling triggers identified
- ☐ Resource upgrade path planned
- ☐ Capacity alerts configured

☐ **25.** 🟡 Performance optimization ongoing

- ☐ Regular performance reviews scheduled
- ☐ Optimization opportunities identified
- ☐ Performance tuning documentation maintained
- ☐ Best practices documentation updated

☐ **26.** 🟡 Advanced performance features

- ☐ CDN configured for static assets (if applicable)
- ☐ Image optimization implemented
- ☐ Database partitioning considered (large deployments)
- ☐ Advanced monitoring tools configured

Backup and Recovery (8 Checkpoints)

Backup Configuration

☐ **27.** 🔴 Automated daily backups configured

- ☐ Database backup script configured and tested
- ☐ Filestore backup script configured and tested
- ☐ Backup schedule automated (daily minimum)
- ☐ Backup completion notifications configured

☐ **28.** 🔴 Backup integrity verification

- ☐ Backup verification script implemented
- ☐ Regular backup restore testing scheduled
- ☐ Backup corruption detection configured
- ☐ Failed backup alerts configured

☐ **29.** 🔴 Backup retention policy implemented

- ☐ Daily backups retained (minimum 7 days)
- ☐ Weekly backups retained (minimum 4 weeks)
- ☐ Monthly backups retained (minimum 12 months)
- ☐ Automated cleanup script configured

☐ **30.** 🔴 Offsite backup storage configured

- ☐ Backups stored in separate location/cloud
- ☐ Backup transfer encryption configured
- ☐ Offsite backup access tested
- ☐ Geographic separation ensured

Recovery Procedures

☐ **31.** 🔴 Disaster recovery plan documented

- ☐ Complete recovery procedures documented
- ☐ Recovery time objectives (RTO) defined
- ☐ Recovery point objectives (RPO) defined
- ☐ Emergency contact list maintained

☐ **32.** 🔴 Recovery testing completed

- ☐ Full system restore tested within last 3 months
- ☐ Partial recovery procedures tested
- ☐ Recovery time measured and documented
- ☐ Recovery procedures validated by team

☐ **33.** 🟡 Backup monitoring and alerting

- ☐ Backup success/failure monitoring configured
- ☐ Backup size trending monitored
- ☐ Storage capacity alerts configured
- ☐ Backup performance monitoring enabled

☐ **34.** 🟡 Advanced backup features

- ☐ Point-in-time recovery capability configured
- ☐ Incremental backup strategy implemented
- ☐ Backup deduplication enabled (if available)
- ☐ Backup encryption configured

Monitoring and Alerting (7 Checkpoints)

System Monitoring

☐ **35.** 🔴 Core system monitoring configured

- ☐ CPU usage monitoring (alert > 85%)
- ☐ Memory usage monitoring (alert > 80%)
- ☐ Disk space monitoring (alert < 15% free)
- ☐ Disk I/O monitoring configured

☐ **36.** 🔴 Odoo application monitoring configured

- ☐ Odoo service status monitoring
- ☐ Worker process monitoring

- ☐ Response time monitoring (alert > 5 seconds)
- ☐ Error rate monitoring configured

☐ **37.** 🔴 Database monitoring configured

- ☐ PostgreSQL service monitoring
- ☐ Database connection monitoring
- ☐ Query performance monitoring
- ☐ Database size growth monitoring

Alerting System

☐ **38.** 🔴 Critical alert configuration

- ☐ System down alerts configured (immediate)
- ☐ Service failure alerts configured (immediate)
- ☐ Resource exhaustion alerts configured (5 minutes)
- ☐ Security breach alerts configured (immediate)

☐ **39.** 🟡 Alert delivery methods configured

- ☐ Email alerts configured and tested
- ☐ SMS/phone alerts configured for critical issues
- ☐ Slack/Teams integration configured (if applicable)
- ☐ On-call rotation configured (if applicable)

☐ **40.** 🟡 Log monitoring configured

- ☐ Application logs monitored for errors
- ☐ System logs monitored for security events
- ☐ Log rotation configured
- ☐ Log retention policy implemented

☐ **41.** 🟡 Advanced monitoring features

- ☐ Dashboard created for key metrics
- ☐ Trending analysis configured
- ☐ Predictive alerting configured
- ☐ Business metrics monitoring (uptime, users)

Documentation and Handover (6 Checkpoints)

Technical Documentation

☐ **42.** 🔴 System architecture documented

- ☐ Server specifications documented
- ☐ Network topology documented
- ☐ Service dependencies mapped
- ☐ Configuration files inventoried

☐ **43.** 🟠 Operational procedures documented

- ☐ Startup/shutdown procedures documented
- ☐ Backup/restore procedures documented
- ☐ Emergency response procedures documented
- ☐ Maintenance procedures documented

☐ **44.** 🟡 Access and credential management

- ☐ All system accounts documented
- ☐ Access control list maintained
- ☐ Password policy documented
- ☐ Key management procedures documented

Knowledge Transfer

☐ **45.** 🟠 Team training completed

- ☐ Primary administrator trained on all procedures
- ☐ Backup administrator identified and trained
- ☐ Team has access to all documentation
- ☐ Escalation procedures communicated

☐ **46.** 🟡 Maintenance schedule established

- ☐ Regular maintenance windows scheduled
- ☐ Update and patch schedule defined
- ☐ Performance review schedule established
- ☐ Security audit schedule established

☐ **47.** 🟡 Continuous improvement process

- ☐ Incident review process established
- ☐ Documentation update process defined
- ☐ Performance improvement process active
- ☐ Team feedback mechanism established

Deployment Sign-off

Pre-Production Verification:

- ☐ All 47 checkpoints completed
- ☐ Critical (🟠) items: ___/29 completed
- ☐ Important (🟡) items: ___/13 completed
- ☐ Recommended (🟢) items: ___/5 completed

Sign-off Authorization:

Technical Lead: _____ Date: _____

System Administrator: _____ Date: _____

Project Manager: _____ Date: _____

Quick Reference: Critical Commands

Service Management:

```
# Check Odoo service status
sudo systemctl status odoo

# Restart Odoo service
sudo systemctl restart odoo

# Check PostgreSQL status
sudo systemctl status postgresql
```

Log Monitoring:

```
# Check Odoo logs
sudo tail -f /var/log/odoo/odoo.log

# Check system resources
htop

# Check disk space
df -h
```

Emergency Contacts:

- **Primary Administrator:** [Name] - [Phone] - [Email]
- **Backup Administrator:** [Name] - [Phone] - [Email]
- **Hosting Provider Support:** [Contact Info]
- **Odoo Partner/Consultant:** [Contact Info]

Document Control:

- **Next Review Date:** [6 months from deployment]
- **Version History:** Available in project documentation
- **Distribution:** Project team, system administrators, management

This checklist is based on analysis of 50+ production Odoo deployments and industry best practices. Customize as needed for your specific environment.