



UNIVERSAL APP INSTALLER - IMPLEMENTATION CHECKLIST

Use this checklist to ensure successful deployment of the Universal App Installer.



Package Contents Verification

- ☐ **Universal-AppInstaller.ps1** (879 lines) - Main installer script
- ☐ **Phase4-Applications-Sample.ps1** (645 lines) - 20+ app examples
- ☐ **README.md** (510 lines) - Package overview
- ☐ **Universal-AppInstaller-Documentation.md** (804 lines) - Complete reference
- ☐ **Universal-AppInstaller-QuickStart.md** (461 lines) - 5-minute guide
- ☐ **Architecture-Workflow.md** (550 lines) - Visual architecture guide

Total: 6 files, 122 KB



Pre-Implementation (Day 0)

Documentation Review

- ☐ Read README.md for overview
- ☐ Read QuickStart.md for setup instructions
- ☐ Review sample configurations in Phase4-Applications-Sample.ps1
- ☐ Bookmark Documentation.md for reference

Environment Preparation

- ☐ Identify deployment server/share location
- ☐ Verify network access to deployment location
- ☐ Create Installers\Apps directory structure
- ☐ Test write access to C:\ProgramData\OrchestrationLogs

Application Selection

- ☐ List all applications to be deployed
- ☐ Categorize apps: Simple vs. Complex
- ☐ Identify apps suitable for Universal Installer (80%)

- ☐ Identify apps requiring custom scripts (20%)

Installer Collection

- ☐ Download latest application installers
 - ☐ Verify installer integrity (checksums)
 - ☐ Test each installer on a test machine
 - ☐ Document silent install switches for each app
 - ☐ Organize installers with clear naming convention
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Implementation (Day 1)

File Deployment

- ☐ Copy Universal-AppInstaller.ps1 to `Scripts\` folder
- ☐ Verify script permissions (should be readable by SYSTEM)
- ☐ Copy all application installers to `Installers\Apps\` folder
- ☐ Verify installer file names match configuration

Configuration Update

- ☐ Open Orchestration-Config.ps1
- ☐ Locate \$Phase4_Applications section
- ☐ Add first test application (recommend 7-Zip)
- ☐ Verify all required parameters present:
 - ☐ TaskID (unique)
 - ☐ TaskName (descriptive)
 - ☐ ScriptPath (Scripts\Universal-AppInstaller.ps1)
 - ☐ AppName
 - ☐ InstallerFileName
 - ☐ InstallerType
 - ☐ InstallArguments
 - ☐ DetectionMethod
 - ☐ DetectionPath
- ☐ Save configuration file

Syntax Validation

- ☐ Open PowerShell as Administrator
- ☐ Navigate to script directory

- ☐ Run: `.\Orchestration-Config.ps1` (should load without errors)
 - ☐ Check for syntax errors
 - ☐ Verify configuration object structure
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Testing (Day 2)

Manual Testing

- ☐ Test installer manually on test machine

```
powershell  
  
.\installer.exe /S
```

- ☐ Verify installation completes successfully
- ☐ Document actual installation location
- ☐ Test detection method manually

```
powershell  
  
Test-Path "C:\Program Files\App\app.exe"  
Get-ItemProperty "HKLM:\SOFTWARE\App"
```

- ☐ Verify detection works correctly

Universal Installer Testing

- ☐ Run Universal Installer directly for one app:

```
powershell  
  
.\Universal-AppInstaller.ps1 -AppName "7-Zip" -InstallerFileName "7z.msi" ...
```

- ☐ Check exit code: `$LASTEXITCODE`
- ☐ 0 = Success
- ☐ 10 = Already installed
- ☐ Review log file in C:\ProgramData\OrchestrationLogs\Apps\
- ☐ Verify installation in Programs & Features
- ☐ Launch app to verify functionality

Orchestration Dry Run

- ☐ Run orchestration in dry run mode:

```
powershell
```

```
.\Orchestration-Master.ps1 -Phase Phase4 -DryRun
```

- ☐ Review output for errors
- ☐ Verify task is recognized
- ☐ Check parameter parsing

Phase 4 Execution

- ☐ Run Phase 4 only:

```
powershell
```

```
.\Orchestration-Master.ps1 -Phase Phase4
```

- ☐ Monitor real-time output
- ☐ Check for green success indicators
- ☐ Review main orchestration log
- ☐ Review app-specific logs
- ☐ Verify app installed and functional



Expansion (Day 3)

Add More Applications

For each additional app:

- ☐ Copy installer to Installers\Apps\
- ☐ Test installer silent switches manually
- ☐ Add configuration entry to Phase 4
- ☐ Increment TaskID appropriately
- ☐ Use descriptive TaskName
- ☐ Configure correct detection method
- ☐ Test app individually
- ☐ Verify logging works

Batch Testing

- ☐ Add 5 applications to configuration
- ☐ Run Phase 4 with all apps
- ☐ Monitor for failures
- ☐ Review logs for all apps
- ☐ Verify all apps installed correctly
- ☐ Document any issues encountered

Optimization

- ☐ Review execution times
 - ☐ Adjust timeouts if needed
 - ☐ Optimize detection methods for reliability
 - ☐ Add version checks where needed
 - ☐ Document app-specific requirements
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Pilot Deployment (Day 4)

Pilot Group Selection

- ☐ Select 5-10 test machines
- ☐ Mix of desktop and laptop
- ☐ Different hardware configurations
- ☐ Different user profiles
- ☐ Document pilot machine details

Pilot Execution

- ☐ Deploy to pilot machines
- ☐ Monitor execution in real-time
- ☐ Collect logs from all machines
- ☐ Interview pilot users
- ☐ Document success rate
- ☐ Document issues encountered

Issue Resolution

- ☐ Review all errors/warnings
- ☐ Identify common problems
- ☐ Fix configuration issues

- ☐ Update installers if needed
- ☐ Adjust detection methods
- ☐ Re-test fixes on pilot group

Pilot Validation

- ☐ Verify apps work on all pilot machines
 - ☐ Check app versions installed
 - ☐ Confirm licensing (if applicable)
 - ☐ Test app functionality with users
 - ☐ Get sign-off from pilot users
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Production Rollout (Day 5+)

Ring 1: Early Adopters (50 machines)

- ☐ Deploy to Ring 1
- ☐ Monitor closely for 24 hours
- ☐ Review logs and reports
- ☐ Address any issues immediately
- ☐ Document lessons learned
- ☐ Get go/no-go decision for Ring 2

Ring 2: Main Wave 1 (500 machines)

- ☐ Deploy to Ring 2
- ☐ Monitor for 48 hours
- ☐ Review aggregated reports
- ☐ Address common issues
- ☐ Scale support resources
- ☐ Get go/no-go decision for Ring 3

Ring 3: Main Wave 2 (1000 machines)

- ☐ Deploy to Ring 3
- ☐ Monitor for 1 week
- ☐ Review success rates
- ☐ Fine-tune configuration
- ☐ Update documentation
- ☐ Prepare for full production

Production: Full Deployment (All machines)

- ☐ Deploy to remaining machines
 - ☐ Monitor overall success rate
 - ☐ Provide user support
 - ☐ Document final statistics
 - ☐ Create final report
 - ☐ Archive deployment logs
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Validation & Reporting

Success Metrics

- ☐ Calculate installation success rate (target: >95%)
- ☐ Measure average installation time per app
- ☐ Track retry attempts
- ☐ Document failure reasons
- ☐ Measure user satisfaction

Reporting

- ☐ Generate deployment report
- ☐ Total machines deployed
- ☐ Apps deployed per machine
- ☐ Success/failure breakdown
- ☐ Common issues encountered
- ☐ Time to complete
- ☐ Share report with stakeholders
- ☐ Document lessons learned
- ☐ Update procedures if needed

Quality Assurance

- ☐ Spot-check random machines
 - ☐ Verify all apps present
 - ☐ Test app functionality
 - ☐ Check for errors in logs
 - ☐ Validate app versions
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Ongoing Maintenance

Weekly Tasks

- ☐ Review error logs
- ☐ Check for app updates
- ☐ Update installer versions
- ☐ Test new versions
- ☐ Deploy updates as needed

Monthly Tasks

- ☐ Audit installed applications
- ☐ Review success rates
- ☐ Optimize configurations
- ☐ Update documentation
- ☐ Clean up old logs

Quarterly Tasks

- ☐ Major version updates
- ☐ Add new applications
- ☐ Remove deprecated apps
- ☐ Security review
- ☐ Performance optimization

Annual Tasks

- ☐ Full system review
- ☐ Update deployment strategy
- ☐ Evaluate new tools
- ☐ Training for IT staff
- ☐ Update disaster recovery plans

Troubleshooting Checklist

Installation Failures

If installation fails:

- ☐ Check installer file exists in Installers\Apps\

- ☐ Verify file name matches configuration exactly
- ☐ Test installer manually with silent switches
- ☐ Review app-specific log for detailed errors
- ☐ Check network connectivity (if using UNC path)
- ☐ Verify sufficient disk space
- ☐ Check Windows version compatibility
- ☐ Review prerequisites (.NET, Visual C++, etc.)

Detection Failures

If detection fails:

- ☐ Install app manually, note actual installation path
- ☐ Check if registry key exists after installation
- ☐ Verify file path is correct
- ☐ Check for 32-bit vs 64-bit path differences
- ☐ Try alternative detection method
- ☐ Use custom detection script if needed

Performance Issues

If installation is slow:

- ☐ Check network speed (if using UNC path)
- ☐ Verify local cache is being used
- ☐ Increase timeout if legitimate
- ☐ Check for antivirus interference
- ☐ Monitor disk I/O during installation



Support Resources

Internal Documentation

- ☐ Create internal wiki page
- ☐ Document company-specific procedures
- ☐ List internal support contacts
- ☐ Create FAQ document
- ☐ Share known issues and workarounds

External Resources

- ☐ Bookmark Silent Install HQ
- ☐ Save vendor documentation links
- ☐ Join IT admin communities
- ☐ Subscribe to relevant blogs
- ☐ Maintain vendor contact list

Training

- ☐ Train IT staff on Universal Installer
 - ☐ Create training documentation
 - ☐ Conduct hands-on workshops
 - ☐ Create video tutorials
 - ☐ Schedule regular refresher training
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Success Criteria

Your implementation is successful when:

- ☐ **95%+ Success Rate** - Most installations complete successfully
 - ☐ **Fast Deployment** - Average app installs in under 5 minutes
 - ☐ **Reliable Detection** - Apps properly detected when installed
 - ☐ **Good Logging** - Easy to troubleshoot from logs
 - ☐ **User Satisfaction** - Users don't notice deployment
 - ☐ **Easy Maintenance** - Adding new apps takes minutes, not hours
 - ☐ **Scalable** - Works reliably across 3000+ devices
 - ☐ **Automated** - Minimal manual intervention required
 - ☐ **Well Documented** - New IT staff can understand and use
 - ☐ **Cost Effective** - Saves significant time vs. manual deployment
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Knowledge Transfer

Documentation Created

- ☐ Internal deployment guide
- ☐ Troubleshooting procedures
- ☐ App-specific notes

- ☐ Configuration standards
- ☐ Change management procedures

Team Training

- ☐ All IT staff trained
- ☐ Training materials created
- ☐ Lab environment for practice
- ☐ Regular training sessions scheduled
- ☐ Knowledge base updated

Handover Complete

- ☐ Primary owner identified
- ☐ Backup owner identified
- ☐ On-call procedures documented
- ☐ Escalation path defined
- ☐ Support model established

Completion Certificate

Once all items are checked:

UNIVERSAL APP INSTALLER IMPLEMENTATION	
COMPLETE ✓	
Deployed By: _____	
Date: _____	
Total Apps: _____	
Total Devices: _____	
Success Rate: _____	
This deployment follows enterprise best practices and is ready for production use across 3000+ devices.	

Congratulations on completing your Universal App Installer deployment! 🚀

For ongoing support, refer to:

- Universal-AppInstaller-Documentation.md (complete reference)
- Universal-AppInstaller-QuickStart.md (quick reference)
- Architecture-Workflow.md (system design)
- Phase4-Applications-Sample.ps1 (working examples)

Remember: This tool handles 80% of your apps with minimal effort. For the remaining 20% of complex apps, continue using custom scripts. You've just dramatically simplified your application deployment process!