

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
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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
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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
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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!