

PowerSyncPro Migration Agent:

Get Started Guide

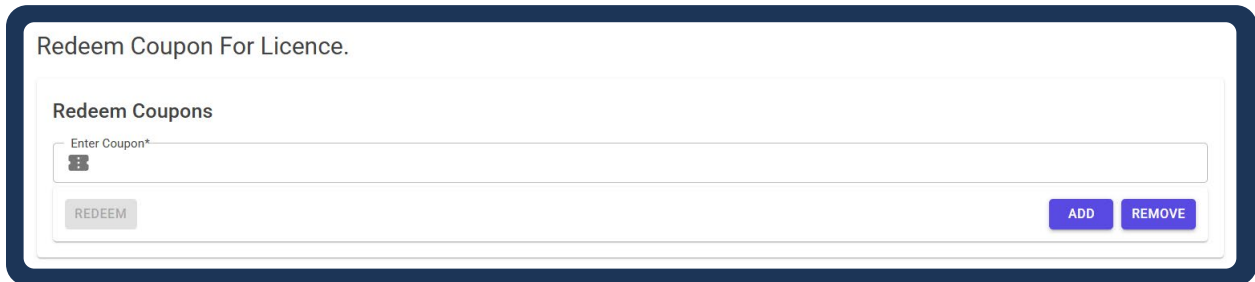
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Overview

The PowerSyncPro Migration Agent automates workstation transitions by managing device reconfiguration, user profile handling, and application adjustments. This Getting Started Guide describes prerequisites, server requirements, installation procedures, and configuration steps to deploy the Migration Agent at scale.

Install via Microsoft (Azure) Marketplace

You can have the prerequisite software installed for Migration Agent via the PowerSyncPro image in Microsoft Marketplace. [Follow this link](#).

Server Requirements for Hosting the Migration Agent Service

To set up your PowerSyncPro Server manually follow the instructions below. These requirements apply to the PowerSyncPro Server that the Migration Agents connect to for runbooks, enrollment, logging, and orchestration.

Supported Operating Systems

- Windows Server 2016 or later

Hardware Requirements

Server sizing depends on the expected number of Migration Agents checking in. Each end user needs 1 Migration Agent.

Up to 1,000 Migration Agents

- 2 vCPU
- 16 GB RAM
- 100 GB additional data drive
- SQL Express acceptable

Up to 10,000 Migration Agents

- 4 vCPU
- 32 GB RAM
- 250 GB additional data drive
- Full SQL Server required

Required Software

- .NET ASP.NET Core Runtime 8.x hosting bundle
- Microsoft Visual C++ Redistributable
- SQL Server Management Studio (Optional)

PowerSyncPro Service Installation Requirements

The Migration Agent requires a functioning PowerSyncPro Service instance, which must be installed on the server.

- Install PowerSyncPro Service on the target server
- Choose a service account
 - A service account can also be the SYSTEM account
 - gMSA (optional)
 - AD or local accounts supported
- Provide SQL connection details
- Confirm the service starts successfully

Network Requirements

The server must be reachable by all Migration Agents.

- Ensure only /agent URL is accessible over the internet
- Publish the PowerSyncPro endpoint securely through firewall or reverse proxy
- Required SSL certificate from public certificate authority
- Use HTTPS with TLS 1.2 or higher
- Open necessary inbound ports for workstation runbook retrieval and logging
 - Typically TCP 443 if published via HTTPS
- Disable older SSL protocols and weak ciphers

Remote Agent Support Components

Syncing users is critical to executing a successful device and profile move using Migration Agent.

- Remote Proxy Agent
 - Requires .NET 8.x Core Runtime
- Remote Sync Agent
 - Requires .NET 8.x Desktop Runtime

- Remote Password Agent
 - Requires Visual C++ Redistributable
- Use port 5001 for Remote Agents over gRPC

Migration Agent Prerequisites

Beyond server requirements. There are several workstation and network requirements for Migration Agent.

Workstation Requirements

- Windows 10 version 1803 or later (64 bit)
- Windows 11 supported
- .NET Desktop Runtime 8.x unless using the bundled MSI

Network Requirements

For Migration Agent to be effective in device and user profile moves. The PowerSyncPro service needs to collect and sync users.

- Directory Sync Profiles must exist and contain matching identities
- Device join actions must be validated manually in all locales for the users before automating
- Workstations must resolve required DNS entries for the PSP server, DC for AD domain join or Microsoft for Entra Join
- Workstations must have been imported by the source directory to become successfully registered, consuming a license.

Supporting Infrastructure Requirements

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Installation

Installation can be performed in different ways, choose the one that fits your situation.

Obtain the Installer

Choose from:

- MSI with .NET self-contained bundle (recommended)
- MSI without .NET

Security Configuration

- Configure Pre Shared Keys
- Configure certificates for secure communication

Deployment Methods

- Push deployment using enterprise software tools
- Local attended interactive installation
- Remote Password Agent
 - Supports logging

Silent Install Example

```
msiexec /i ".\PSPMigrationAgentInstaller.msi" PSK="<your PSK>" URL="https://<your SSL endpoint>/agent" /quiet
```

Installation Verification

- Confirm PSP endpoint is accessible from workstations over the internet and internally on the LAN
- Confirm Migration Agent service exists
- Verify Program Files and ProgramData directories
- Confirm server registration in the PowerSyncPro console
- Check Windows Event Logs for initialization logs
- Confirm certificate installation

Bulk Enrollment

- Only applicable for going Entra Joined
- Create BPRT in directory config
- Renew before expiration

Transition Table

The transition table maps source users to their target accounts, providing the link needed for a successful transition. When the Migration Agent runs, it relies on this mapping to re-permission user profiles, files, and applications.

- Import users
- Create a sync Profile
- Check translation table

Runbooks

The execution of runbooks and batches is coordinated by the workstation itself, Migration Agent only communicates with the PSP server to ascertain and download the runbooks which are allocated to it. Import the translation table into the correct runbook directory on the local machine.

Components

Runbooks define each step of the workstation migration process:

- Startup
- Device state evaluation
- Permission updates
- Application reset
- Completion tasks
- User experience can be configured for different languages

Runbook Creation

- Define migration steps
- Set lock screen image
- Add reconfiguration modules

Assigning Runbooks

- Create batches
- Assign runbooks
- Configure scheduling windows

Self Service Migration

Users may initiate migration independently:

- Start migration
- Review about and status dialogs

Monitoring

Monitor agent activity through:

- Agent Progress
- Agent Details
- Logs
- Failed communications
- Event Logs

Log Locations

- Logs are uploaded to the PowerSyncPro server for centralized review
- Windows Application Event Logs contain local agent events
- Runbook step level results are available in the console

Best Practices

- Validate directory mappings and account objects before deploying the Migration Agent
- Test workstation join scenarios manually in a lab before running migrations at scale
- Begin with a small pilot batch to identify environment specific issues
- Monitor runbook execution during and after migration
- Maintain sufficient network bandwidth and avoid peak congestion periods

Conclusion

The PowerSyncPro Migration Agent provides an efficient and centrally managed approach for large scale workstation transitions. By following the prerequisites, installation guidance, configuration steps, and monitoring recommendations in this Quick Start Guide, organizations can accelerate migrations while minimizing user impact.



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