Production Configuration

Before deploying the system in a production environment, you'll need to customize the following settings:

1. VDA Installation

- Controller addresses
- Component selection
- HDX and real-time transport settings

2. PVS Target Device Installation

- Target device type (Private/Shared)
- Base image configuration

3. WEM Agent Installation

- Broker service address
- Configuration and service ports

4. UberAgent Installation

- Splunk server address
- Splunk token

5. **Domain Join**

- Domain name
- Administrator credentials

These settings can be configured through the UI or by editing the PowerShell script directly. For automated deployments, consider creating a configuration file that can be imported at runtime.## File Structure

When deployed, the Platform Layer Installation system uses the following file structure:

□ Copy

The log file is created on the desktop of the user running the installation, making it easily accessible for review and troubleshooting.# Platform Layer Installation UI Deployment Guide

This guide explains how to deploy and use the Platform Layer Installation UI for production environments, providing a modern web interface for automating Citrix platform layer installation tasks.

Overview

The Platform Layer Installation system consists of three main components:

- 1. HTML/JavaScript UI A modern web interface for administrators
- 2. **PowerShell Installation Script** The core automation script that performs all installation tasks
- 3. UI-PowerShell Bridge A connector that allows the UI to execute PowerShell functions

Deployment Instructions

Step 1: Create the Required Files

Create a new directory to hold all the required files:

Powershell

New-Item -Path "C:\PlatformLayer" -ItemType Directory -Force

Copy the following files to this directory:

- PlatformLayerUI.html The HTML user interface
- PlatformLayerInstall.ps1 The main PowerShell installation script
- **UI-Bridge.ps1** The PowerShell bridge script that connects the UI to the installation script
- **SetupExecution.ps1** Script to set execution policy to Unrestricted

Step 2: Set Execution Policy

Before running any scripts, you need to set the PowerShell execution policy to Unrestricted. Run PowerShell as Administrator and execute:

cd C:\PlatformLayer
.\SetupExecution.ps1

This will set the execution policy to Unrestricted at different scopes to ensure all scripts can run properly.

Step 2: Update the HTML UI File (Optional)

If needed, customize the HTML UI file to match your organization's branding or to adjust default settings:

- Update default file paths in the input fields
- Modify domain name defaults
- Update network paths

Step 3: Launch the UI Server

Open PowerShell with administrative privileges and run:

```
cd C:\PlatformLayer
Import-Module .\UI-Bridge.ps1
Start-UIBridgeServer -Port 8080 -HtmlPath .\PlatformLayerUI.html
```

This will start a local web server accessible at http://localhost:8080

Step 4: Access the UI

Open a web browser and navigate to:

http://localhost:8080

The Platform Layer Installation UI will load, presenting the installation workflow.

Using the Installation UI

Pre-Install Tasks

- 1. Click "Start Tasks" in the Pre-Install section
- 2. The system will map network drives and check for D: drive
- 3. If D: drive is missing, you'll be prompted to add it

Install Stage 1

- 1. Once Pre-Install tasks are complete, click "Start Tasks" in the Install Stage 1 section
- 2. The system will automatically execute all Stage 1 tasks:
 - Install Citrix VDA with selected components
 - Install Citrix PVS Target Device Software
 - Install Citrix WEM Agent
 - Install UberAgent
 - Run Citrix Optimizer
 - Run KMS Licensing Rearm
 - Remove Ghost Devices
 - Move Page File to D: Drive
 - Redirect Event Logs
 - Copy Login Script Files
 - Join Domain
- 3. When complete, you'll be prompted to reboot the system

Stage 2 (Post-Reboot)

- 1. After rebooting, reopen the UI at http://localhost:8080
- 2. Click "Start Tasks" in the Stage 2 section
- 3. The system will automatically execute all Stage 2 tasks:
 - Clear Event Logs
 - Clear Temp Files
 - Empty Recycle Bin
 - Run NGEN Optimization
 - Finalize App Layer
- 4. When all tasks are complete, the platform layer installation is finished

Logging

All installation activity is logged to a file named "PlatformLayerInstall.log" on the desktop of the user running the installation. This log provides detailed information about each task's execution and can be used for troubleshooting if any issues occur.

Troubleshooting

UI Not Loading

- Ensure the PowerShell bridge server is running with administrative privileges
- Check that port 8080 is not being used by another application
- Verify that all files are in the correct location

Task Execution Failures

• Check the log file at (%USERPROFILE%\Desktop\PlatformLayerInstall.log) for detailed error information

- Verify that the system meets all prerequisites for installation
- Ensure network paths are accessible and have correct permissions

PowerShell Execution Policy

The included SetupExecution.ps1 script sets the execution policy to Unrestricted at multiple scopes:

- Process scope (affects only the current PowerShell window)
- CurrentUser scope (affects all PowerShell sessions for the current user)
- LocalMachine scope (affects all PowerShell sessions on the machine, requires Administrator rights)

If you encounter any execution policy issues after running the setup script, you can manually set the policy:

```
# For the current process only

Set-ExecutionPolicy -ExecutionPolicy Unrestricted -Scope Process -Force

# For the current user (recommended)

Set-ExecutionPolicy -ExecutionPolicy Unrestricted -Scope CurrentUser -Force

# For the entire machine (requires Administrator)

Set-ExecutionPolicy -ExecutionPolicy Unrestricted -Scope LocalMachine -Force
```

Note: In a production environment, consider using a more restrictive policy like RemoteSigned after testing is complete.

Advanced Configuration

Running in Silent Mode

For automated deployments, you can run the installation script directly without the UI:

```
# Run all stages with no prompts
.\PlatformLayerInstall.ps1 -Force

# Run only Pre-Install tasks
.\PlatformLayerInstall.ps1 -PreInstall -Force

# Run only Stage 1 tasks
.\PlatformLayerInstall.ps1 -Stage1 -Force

# Run only Stage 2 tasks
.\PlatformLayerInstall.ps1 -Stage2 -Force
```

Customizing Port Number

To use a different port for the UI server:

```
powershell

Start-UIBridgeServer -Port 8888 -HtmlPath .\PlatformLayerUI.html
```

Security Considerations

- The UI server should only be accessible on secure networks or localhost
- Credentials entered in the UI are transmitted to PowerShell but not stored persistently

- For production use, consider implementing TLS/SSL for the web interface
- Always run with least privilege necessary for the installation tasks