# Installation Guide for Cisco Industrial Network Director, Release 1.1.x

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This installation guide contains the latest information about installing the Cisco Industrial Network Director (IND) application on a Microsoft Windows Operating System (OS) and details accessing the application after installation.

## Organization

This guide includes the following sections:

■ Conventions

■ System Requirements

■ Installation Notes

■ Logging in to Cisco IND Application

■ Installing IND Device Packs

## Conventions

This document uses the following conventions.

| Conventions | Indication |
|---|---|
| **bold** font | Commands and keywords and user-entered text appear in **bold** font. |
| *italic* font | Document titles, new or emphasized terms, and arguments for which you supply values are in *italic* font. |
| [ ] | Elements in square brackets are optional. |
| {x \| y \| z } | Required alternative keywords are grouped in braces and separated by vertical bars. |
| [ x \| y \| z ] | Optional alternative keywords are grouped in brackets and separated by vertical bars. |
| string | A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks. |
| courier font | Terminal sessions and information the system displays appear in courier font. |
| < > | Nonprinting characters such as passwords are in angle brackets. |
| [ ] | Default responses to system prompts are in square brackets. |
| !, # | An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line. |

**Note:** Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

# System Requirements

**Table 1        System Requirements for the IND Application**

| Desktop Requirements | Minimum Requirement |
|---|---|
| Windows Operating System (OS) | Windows 7 Enterprise or Professional with Service Pack 2 Windows 10 |
| Browser | Chrome: Version 50.0.2661.102 or later Firefox: Version 46.01 or later |
| CPU | Dual Core 2.4Ghz |
| RAM | 8 GB |
| Storage | 50 GB |

# Installation Notes

1.  Download the Cisco Industrial Network Director (IND) software package from Cisco.com to your system from the Cisco Download Software page https://software.cisco.com/download/navigator.html by following the path below to the IND software:

    **Products > Cloud and Systems Management > IoT Management and Automation > Cisco Industrial Network Director**

    **IMPORTANT:** Before you install the IND software package, confirm that:

    ■ No other FTP server is running and listening on port 21

    ■ No other instance of PostgreSQL database is installed on the system

    ■ The following ports are open for both inbound and outbound traffic on the firewall:

        — TCP Ports 5432, 8088, 8443, 443, 80, 21, 50000-50050

2.  If this is a first time you are installing and using the IND Application, follow the steps in New Installation

3.  If you are upgrading your current IND Application, follow the steps in Upgrade an Existing IND Application

4.  If you want to uninstall your current IND application, follow the steps in Uninstall an Existing IND Application

# New Installation

1.  Click the **Download** button to download the IND installer file to your system.

2.  Double-click the installer file (for example, *ind-1.1.1.-49.installer.exe*) or At the User Account Control window that appears, click **Yes** to allow the installer.exe file to be installed on your system.

3.  At the Language Selection window that appears, select the Language option from the drop-down menu. Click **OK**.

    **Note:** You must select the same language option for all future software upgrades.

4.  At the Setup Wizard screen that appears, click **Next**.

5.  At the License Agreement screen, click the **I accept the agreement** radio button; and, then click **Next**.

6.  At the Installation Directory screen, click **Next** to confirm the destination directory. You may specify your own directory or accept the default directory defined in the install script.

7.  At the Ready to Install screen, click **Next** to begin installation of the IND application on your system.

**Note:** For New installs, if the installer detects that TCP port 8443 is already in use, an Error pop-up window appears asking for you to specify a different port. You can enter any available port.

**Note:** During IND installation, a postgres file is installed. If the IND install process attempts to overwrite an existing third-party postgres file, a popup window appears alerting you to the conflict. Additionally, you are instructed to remove that existing postgres file to allow the IND installation to continue.

**IMPORTANT:** When Setup completes, a window appears with:

■  Your initial login information: Username and Password

■  URL for the Application

  —  Be sure to capture this information, **before** you exit the screen by selecting **Finish.**

## Upgrade an Existing IND Application

1. Double-click the installer file (for example, *ind-1.1.1-49.installer.exe*) or click the **Download** button to download the IND installer file to your system.

2. At the Language Selection window that appears, select the desired Language from the drop-down menu. Click **OK**.

   **Note:** Be sure to select the **same** language you selected at the original install. (If you select the wrong language, an error appears and the install will stop.)

3. A pop up window appears, asking you to confirm you want to upgrade your current IND application to a new version. Click **Yes** to upgrade. Click **No** to cancel the upgrade.

4. At the Setup Wizard screen that appears, click **Next**.

5. At the License Agreement page, click the **I accept the agreement** radio button; and, then click **Next**.

6. At the Ready to Install screen, click **Next** to begin installation of the IND application on your system.

**IMPORTANT:** When Setup completes, a window appears with:

■  URL for the Application login

  —  Be sure to capture this information, **before** you exit the screen by clicking **Finish.**

## Uninstall an Existing IND Application

On your system:

1. From the Windows system, go to the Control Panel, choose **Programs > Uninstall a Program > Programs and Features**.

2. In the panel that appears, double-click **Cisco Industrial Network Director.**

3. At the uninstall confirmation window, click **Yes**. A window appears showing removal of the files.

4. When the uninstall completes, a window appears confirming completion.

## Logging in to Cisco IND Application

**Note: Please wait approximately 8 minutes for the system to boot up after an initial install, upgrade or restart, before you log in to the user interface.**
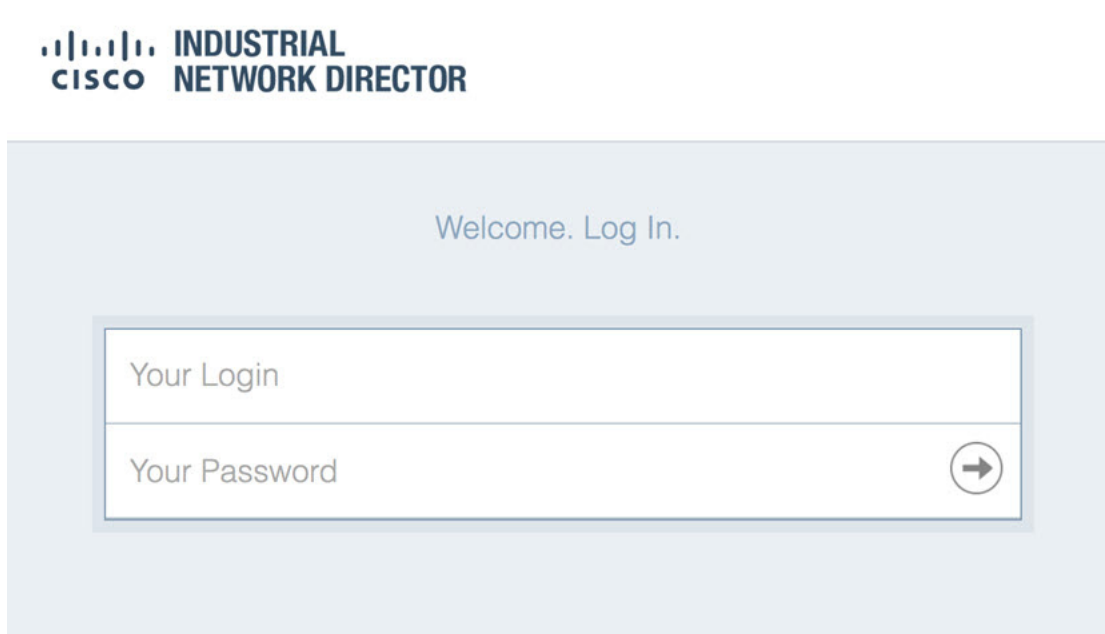
IND is a server application and it can be accessed by any client machine that has connectivity to the system where IND was installed.

Chrome and Firefox are supported browsers. See System Requirements.
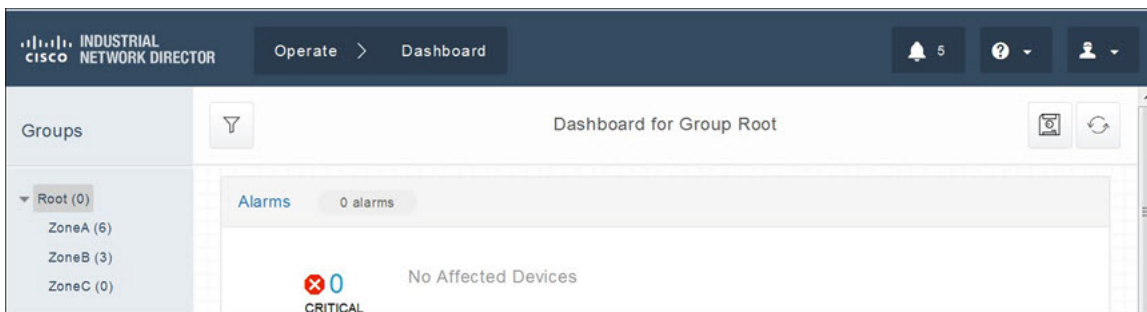
1. On the client machine, open your browser window.

2. Enter the URL <https://a.b.c.d:portNum> provided at the end of the IND install, where <a.b.c.d> is the IP address of the system where IND was installed.

   **Note:** By default, portNum is 8443. If the 8443 value is not available during install, you can enter any available port number.
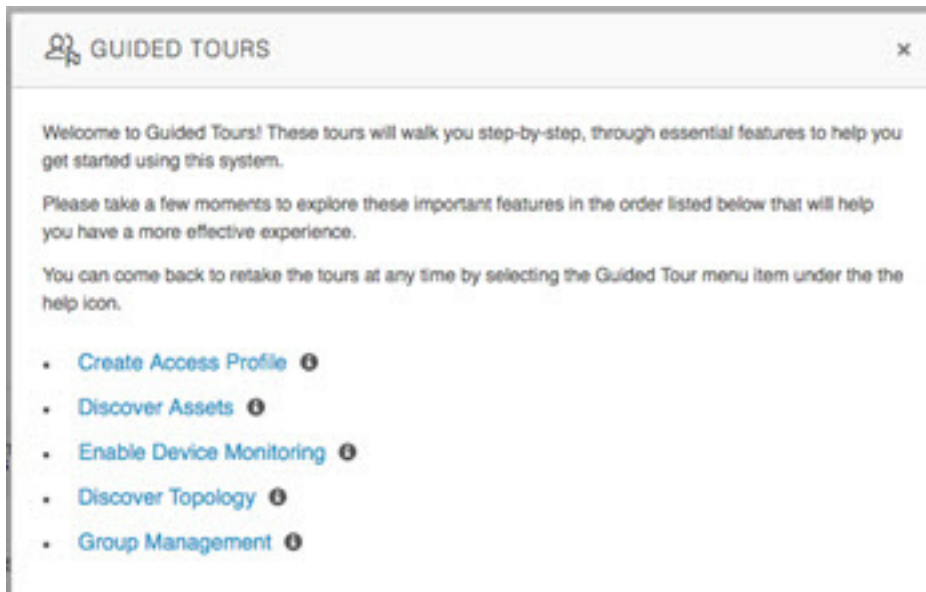
3. At the log in window that displays, enter the initial Login and Password values provided at completion of the application install.



4. Click the arrow in the Your Password field. A window appears requesting you to define a new password.

5. After you define a new password, the application automatically logs you out. You must reenter your login and password to reenter the application.

6. When the IND opens, the **Operate > Dashboard** for Group Root page appears.



7. To set up the system:

   a. Click on the Online Help question (**?**) mark icon in the top right-hand corner of the screen to display menu options: *Group-dashboard Help, Guided Tours, Download Logs, API Tool*

   b. Click on the **Guided Tours** option to access step-by-step setup instructions for the system.

# Installing IND Device Packs

**Note:** IND Device Packs can only be installed with the IND application that has a matching *version* number, and the *release number* **must be** the same or greater than the IND release number.

For example, in release 1.1.1-49, 1.1.1 is the version number and 49 is the release number.

A new device pack must be version 1.1.1 and the release must be 49 or higher.

**Note:** You can verify the Device Pack version and PID at the **Settings > Device Pack** page.

# Installation Options

You can install the IND Device Pack through the IND Application Web User Interface *or* directly from an executable file present on the Windows system on which the IND Application is installed. The benefit of installing the Device Pack through the Web User Interface is that the device support is available immediately without having to restart the IND application.

**Option 1:** To install the Device Pack using the IND Application User Interface:

1. Choose **Settings > Device Pack** page.

   The page displays the current version and release number of the installed Device Pack, when it was installed, and the supported Product ID (PID) list.

2. To install a new Device Pack, click **Install New Device Pack**. Browse the IND device pack executable list, select the desired device pack, and click **Upload and Install**.

   When installation is complete, support for the new devices is available immediately on the IND application. No restart of the application is required.

**Option 2:** To install the Device Pack executable file directly from the Windows system:

1. Click on the executable file to start installation of the Device Pack.

2.  When installation successfully completes, restart the Cisco IND application to activate the new Device Pack.