

DeviceOn for TOP SWAP flash BIOS



DeviceOn Cloud Installation

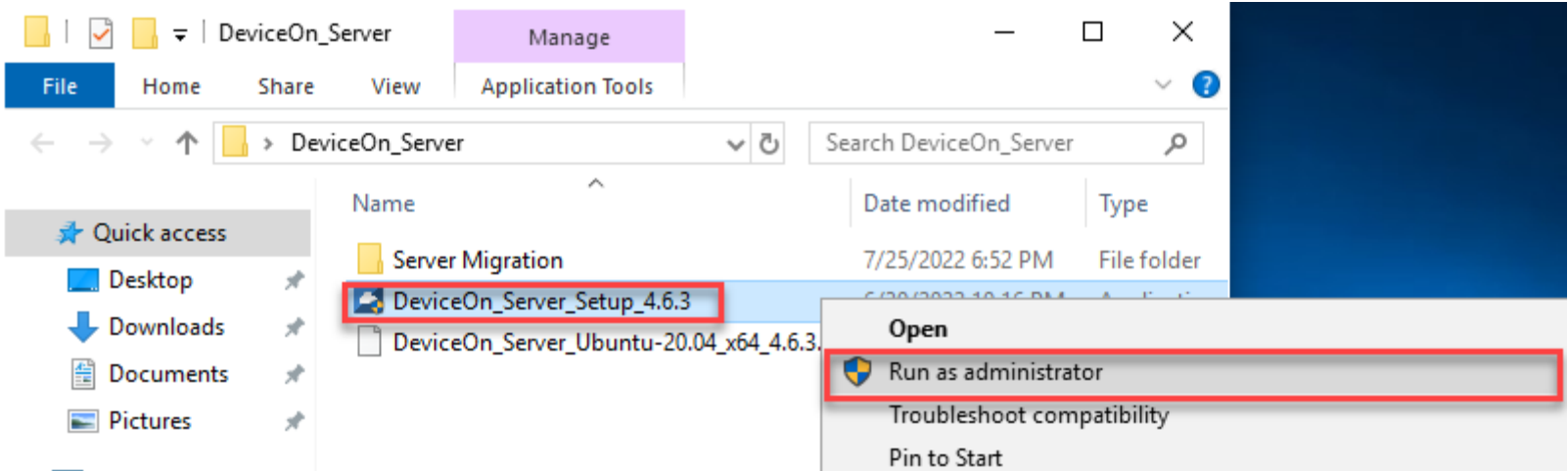
Step 1. Download the WISE-DeviceOn Server file

- https://docs.wise-paas.advantech.com/en/Guides_and_API_References/ApplicationServices/1564727799415968385/1564727878040194797/v1.0.2

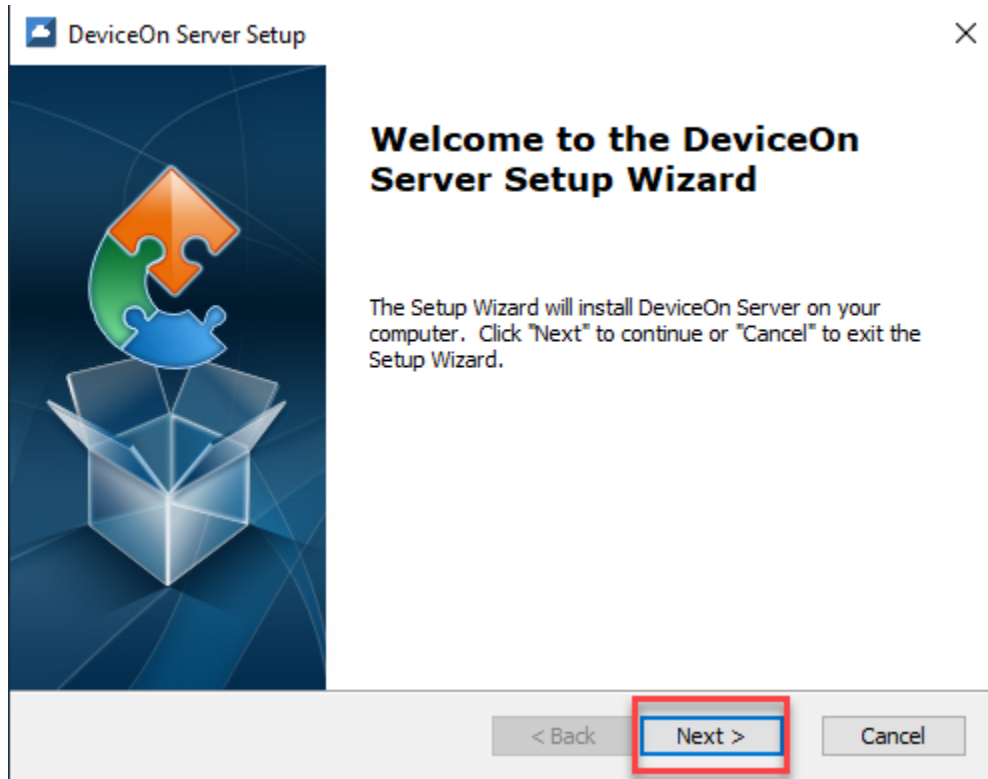
Resources Download & Contact Us

- [User Manual](#) [[Google Drive](#), [Azure Blob](#)]
- [Product Slide](#) [[Google Drive](#)]
- [Sales kit](#) [[Google Drive](#), [Azure Blob](#)]
- [WISE-DeviceOn Server](#)
- [WISE-Agent](#) (Windows & Ubuntu)
- [Embedded Software Technical Support Ticket System](#)
- [Contact Us: DeviceOn.Support](#)

Step 2. Copy the installation file to target system and run it as administrator



Step 3. Click “Next” to start the installation process




Step 4. Select “I Accept the terms in the License Agreement” and click “Next”

DeviceOn Server Setup ×

End-User License Agreement

Please read the following license agreement carefully



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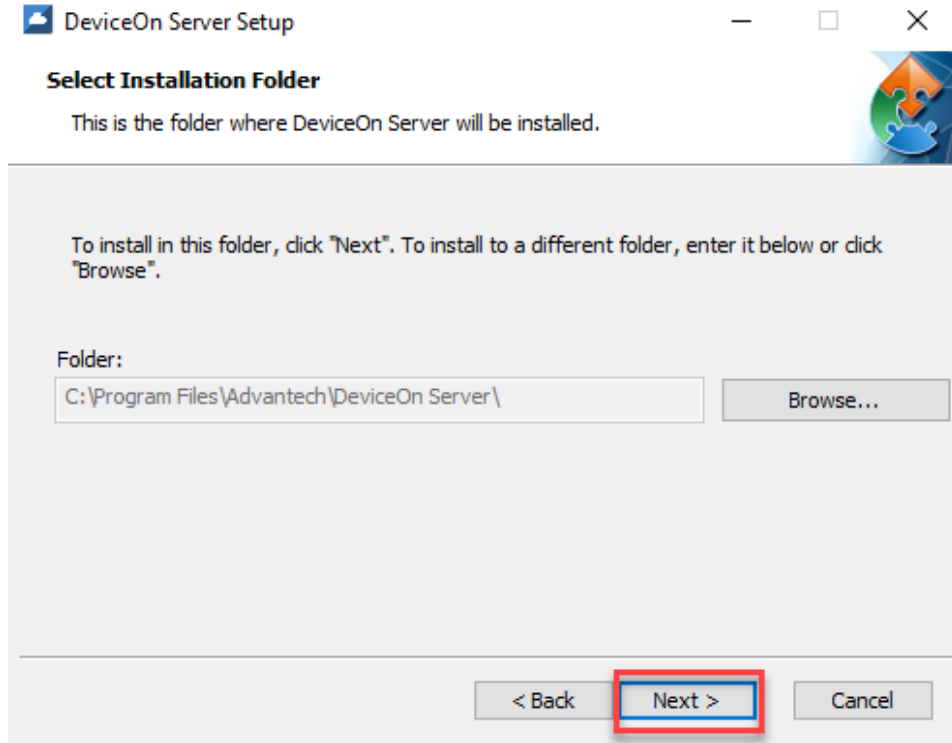
GRANT OF LICENSE:
ADVANTECH CO, LTD. (the “Licensor”) grants to you this limited, non-exclusive, non-transferable, non-assignable license solely to use in a single copy of the Licensed Works on a single product for use by a single concurrent user only and

I accept the terms in the License Agreement

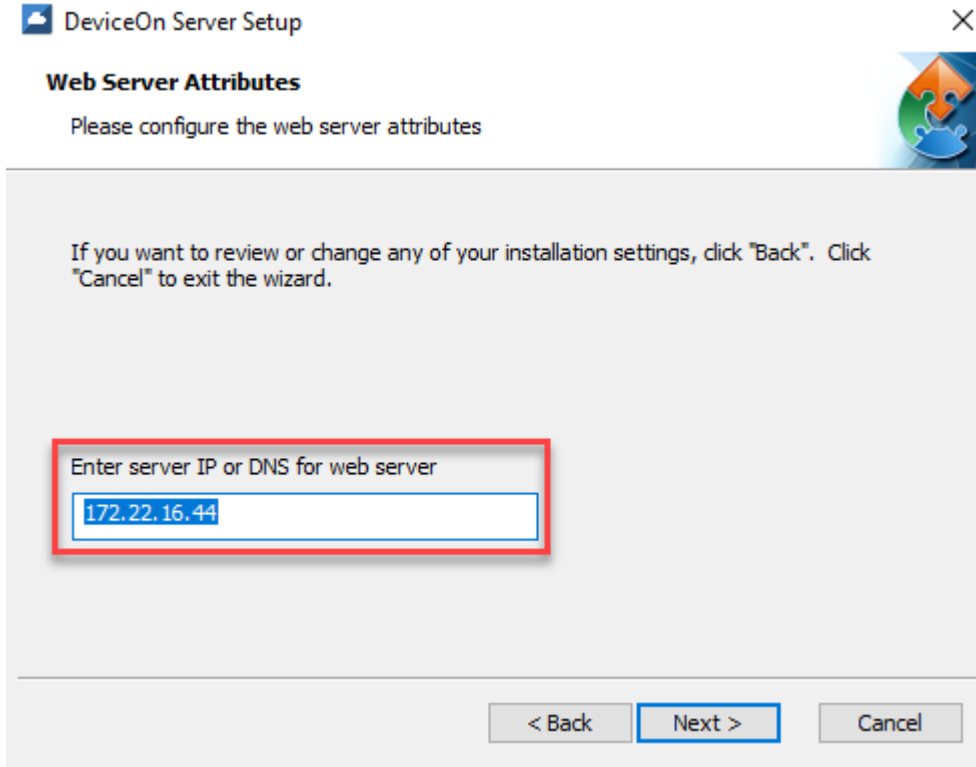
I do not accept the terms in the License Agreement

< Back Next > Cancel

Step 5. Select the “Installation Folder” for DeviceOn Server and click “Next”



Step 6. Enter “Public IP” or “Domain Name” for this physical/virtual machine and click “Next”



DeviceOn Server Setup

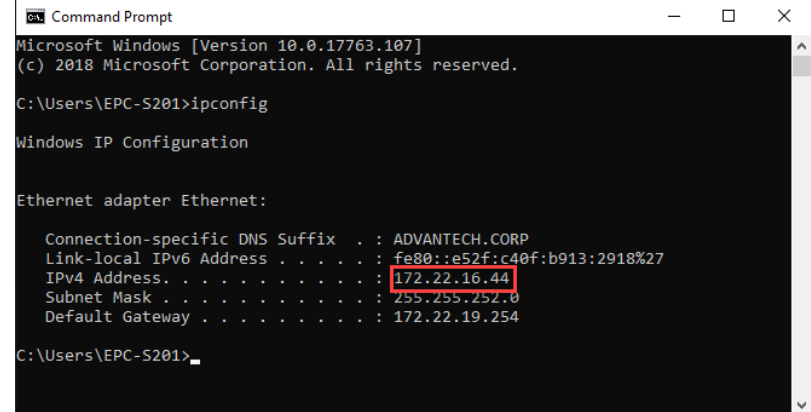
Web Server Attributes

Please configure the web server attributes

If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.

Enter server IP or DNS for web server

< Back Next > Cancel



```
Microsoft Windows [Version 10.0.17763.107]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\EPC-S201>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : ADVANTECH.CORP
    Link-local IPv6 Address . . . . . : fe80::e52f:c40f:b913:2918%27
    IPv4 Address. . . . . : 172.22.16.44
    Subnet Mask . . . . . : 255.255.252.0
    Default Gateway . . . . . : 172.22.19.254

C:\Users\EPC-S201>
```

Note: You can start a Windows command prompt and type “ipconfig” to retrieve your IP address(es) on this physical/virtual machine.

Step 7. configure the HTTP port number , and the default port is 8080

DeviceOn Server Setup ×

Tomcat Server Attributes

Please configure the Tomcat server attributes

If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.

HTTP Port Number

< Back **Next >** Cancel

Step 8. Configure the password of PostgreSQL Service

DeviceOn Server Setup

PostgreSQL Server Setting

Please configure the PostgreSQL server attributes

If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.

Username
postgres

Password
●●●●●●●●

Confirm password
●●●●●●●●

< Back Next > Cancel

Step 9. Configure the password of MongoDB Service

DeviceOn Server Setup

MongoDB Server Setting

Please configure the MongoDB server attributes

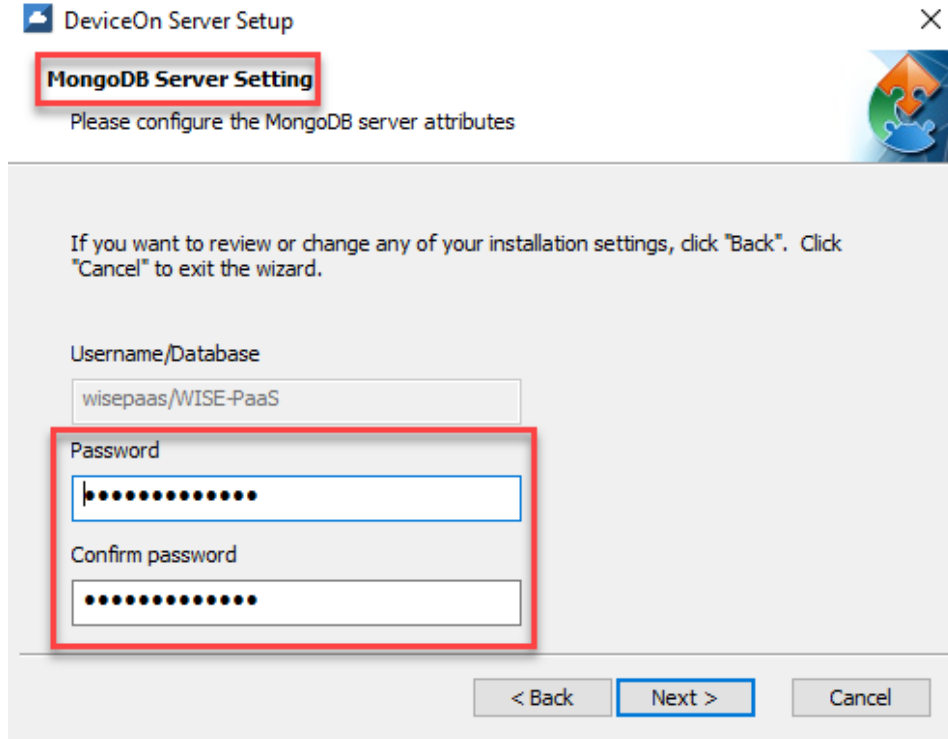
If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.

Username/Database
wisepaas/WISE-PaaS

Password
●●●●●●●●

Confirm password
●●●●●●●●

< Back Next > Cancel



Step 10. Select the database installation path and cache size of MongoDB and click “Next”

DeviceOn Server Setup ×

MongoDB Server Setting

Please configure the MongoDB server attributes

If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.

Maximum cache size (GB) (1 ~ 3)

Database Folder:

Browse...

< Back **Next >** Cancel

Step 11. Enable Capped Collections Size and click “Next”

DeviceOn Server Setup ×

MongoDB Server Setting

Please configure the MongoDB server attributes

If you want to review or change any of your installation settings, click “Back”. Click “Cancel” to exit the wizard.

Enable Capped Collections (Data Recycling)

Capped Collections Size (MB)

10

Capped collections work in a way similar to circular buffers: once a collection fills its allocated space, it makes room for new documents by overwriting the oldest documents in the collection.

Note: The characteristic of capped cannot be disabled, if you enable the collection at first.

< Back **Next >** Cancel

Step 12. Configure the password and suffix domain of the root account and click “Next”

DeviceOn Server Setup

Login Information
Please set administrator user information

If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.

Login account (Please give a suffix domain)

root@ advantech.com.tw

Password

Confirm password

< Back Next > Cancel

This root account has the highest permission level and is used to log in to the DeviceOn web service and create other user accounts.

Step 13. Configure the password and Port Number of Grafana dashboard

DeviceOn Server Setup ✕

Grafana Information

Please configure the Grafana server attributes

If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.

Login account/password

Grafana Port Number

Note: Default account/password is admin/admin, it can be changed after first login.

Step 14. Set up the FTP service port for OTA default storage

DeviceOn Server Setup ×

FTP Information

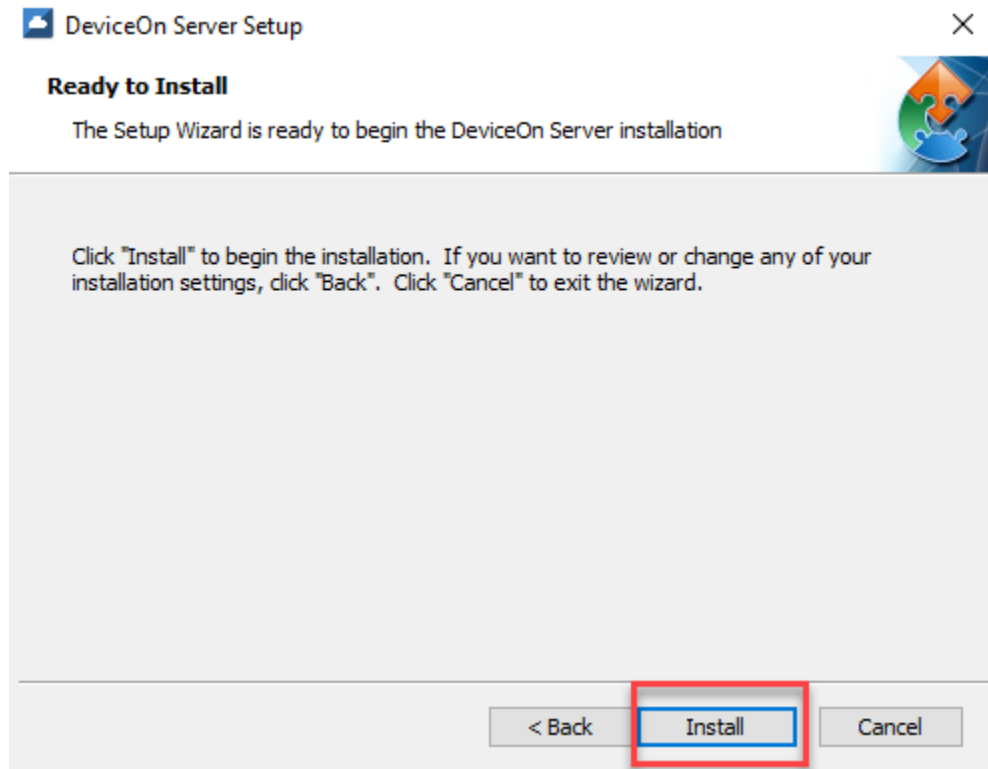
Please configure the FTP server attributes

If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.

FTP Port Number

< Back Next > Cancel

Step 15. Click “Install” to begin the installation




Step 16. Allow all access of Windows Defender Firewall

Windows Security Alert

Windows Defender Firewall has blocked some features of this app

Windows Defender Firewall has blocked some features of Erlang on all public and private networks.

 Name: Erlang
Publisher: Ericsson
Path: C:\program files\advantech\deviceon server\broker\erl\bin\erl.exe

Allow Erlang to communicate on these networks:

Private networks, such as my home or work network

Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)


[What are the risks of allowing an app through a firewall?](#)

Allow access Cancel

Windows Security Alert

Windows Defender Firewall has blocked some features of this app

Windows Defender Firewall has blocked some features of epmd on all public and private networks.

 Name: epmd
Publisher: Unknown
Path: C:\program files\advantech\deviceon server\broker\erl\erts\bin\epmd.exe

Allow epmd to communicate on these networks:

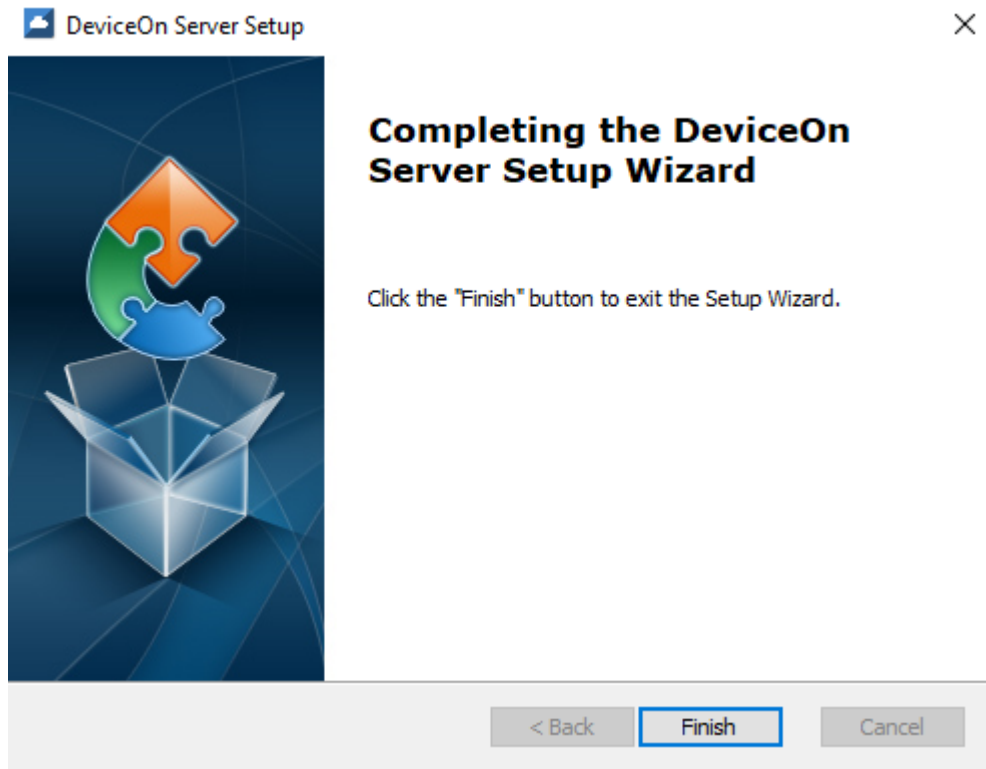
Private networks, such as my home or work network

Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)

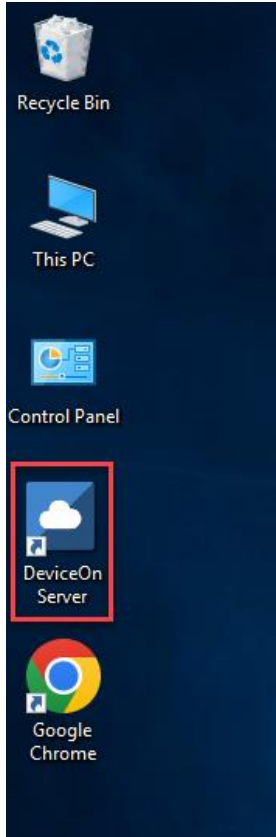
[What are the risks of allowing an app through a firewall?](#)

Allow access Cancel

Step 17. Click “Finish” to exit the program



Step 18. Launch DeviceOn Web Service Shortcut on Desktop




WISE-DeviceOn

IoT Device Operations and Asset Management.

Welcome back!
Login to access the DeviceOn.

Email
root@advantech.com.tw

Password
..... 

Remember me [Forgot password ?](#)

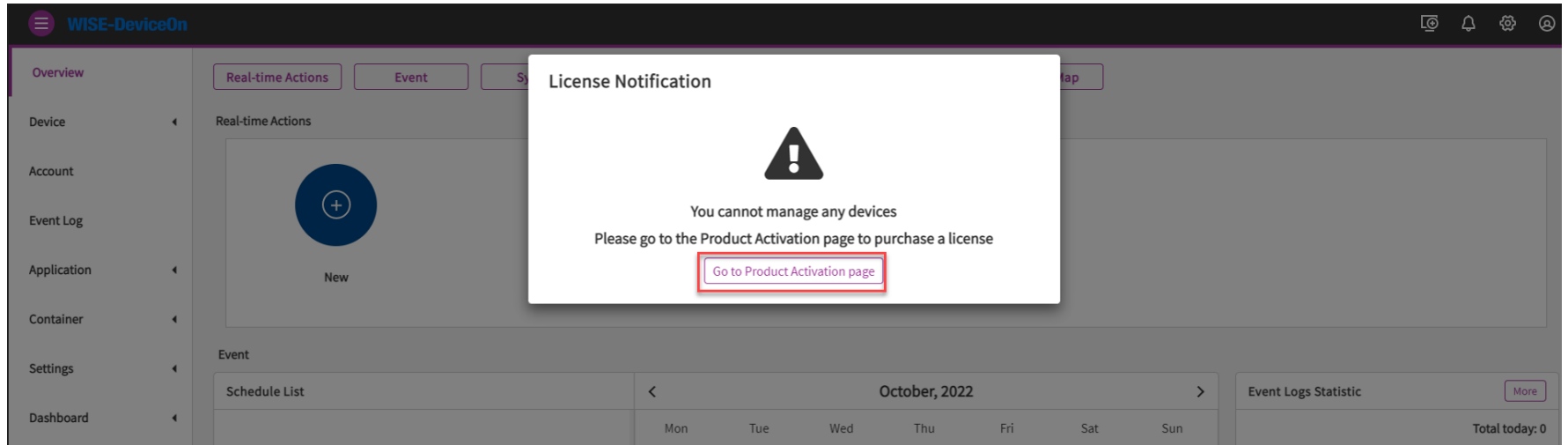
Stay signed in [Sign Up](#)

Login with LDAP account

[Login](#)



Step 19. License Notification : Go to Product Activation page



The screenshot displays the WISE-DeviceOn web application interface. A modal window titled "License Notification" is centered on the screen. The modal contains a warning icon (a black triangle with a white exclamation mark) and the following text: "You cannot manage any devices" and "Please go to the Product Activation page to purchase a license". A button labeled "Go to Product Activation page" is highlighted with a red rectangular border. The background interface shows a sidebar with navigation options: Overview, Device, Account, Event Log, Application, Container, Settings, and Dashboard. The main content area is currently in the "Real-time Actions" tab, featuring a "New" button with a plus sign. Below this, there is an "Event" section with a "Schedule List" table and a calendar for "October, 2022". The calendar shows days from Monday to Sunday. To the right of the calendar, there is an "Event Logs Statistic" section with a "More" button and a "Total today: 0" indicator.

Step 20. Click “Copy Request Code”

Purchase Licenses ×

DeviceOn provides two methods to activate the license, you can directly go to WISE-Marketplace to purchase or go to the Request Form to apply for a trial license.

 Click the button to download the license request file. [Export License Request](#) or [Copy Request Code](#)

Method 1: Go to WISE-Marketplace to purchase DeviceOn license <

Method 2: Please fill in the application form, we will contact you as soon as possible. <

Step 21. Select Method 2 : Go to Request Form fill in information

Purchase Licenses

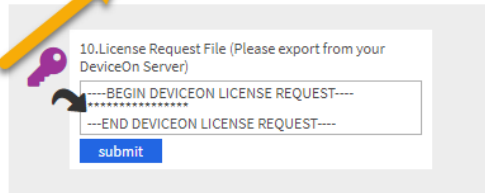
DeviceOn provides two methods to activate the license, you can directly go to WISE-Marketplace to purchase or go to the Request Form to apply for a trial license.

Click the button to download the license request file. [Export License Request](#) or [Copy Request Code](#)

Method 1: Go to WISE-Marketplace to purchase DeviceOn license

Method 2: Please fill in the application form, we will contact you as soon as possible.

1. Go to [Request Form](#) fill in your personal information, license request file and submit the form.



10. License Request File (Please export from your DeviceOn Server)

```
-----BEGIN DEVICEON LICENSE REQUEST-----  
.....  
-----END DEVICEON LICENSE REQUEST-----
```

[submit](#)

An orange arrow points to the 'Request Form' link in step 1, and a purple key icon points to the license request file field.

2. After the review, the license file (*.lf) will be sent to your mailbox. Please be sure to fill in a valid mail address.



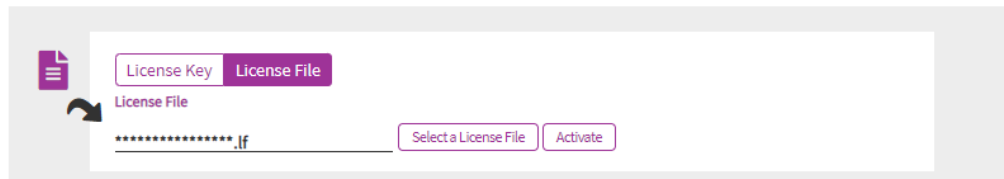
mail

↓

→

The diagram shows a mailbox icon with a download arrow, followed by an arrow pointing to a document icon representing a license file.

3. Upload your license file on DeviceOn's Product Activation page and click Activate.



License Key License File

License File

......lf

[Select a License File](#) [Activate](#)

The screenshot shows a form with two tabs: 'License Key' and 'License File'. The 'License File' tab is active, showing a text input field with a file icon and a file extension '.lf'. Below the field are two buttons: 'Select a License File' and 'Activate'.

Step 22. Fill in information on request form and click “Submit”

Advantech DeviceOn License Request Form

English (United States)

* Required

1. Name (First/Last) *

Wallace.Wu

2. Business E-mail (Please enter the valid email, the license file will be sent back to you after the review.) *

wallace.wu@advantech.com.tw

3. Job Title *

Supervisor

4. Company Name *

Advantech

5. Phone Number *

0227927818

6. Country *

Taiwan

7. Email for your Sales Representative

Enter a valid email address.

8. License Request *

I want to apply a license (3 Month)

9. License Number (1 ~ 1000), for more, please [contact us.](#) *

120

9. License Number (1 ~ 1000), for more, please contact us. *

120

10. License Request File (Please export from your DeviceOn Server) *

```
-----BEGIN DEVICEON LICENSE REQUEST-----  
~lpkFMZoko+x8GZviBBPwwUjVWjQ4dOzWefcDsjb  
osRS0p38mE+339TceWeryJooeRyAy323MPgTswUj  
OTLwrWSPBSyvi4B2HYOGwTmHqcn2m+wQeDV1a7B  
+p68IDThWvak6mab7V594uIR6/9wrVRFr+6ufl  
6tdxj1RZc+57lwPwutv3VLTdxGv4aczfDcXbaD  
0/xBQFR0bO5YKmeWJDj88P9hncqhwWe8hRfJcv  
GvGKw5Yc9JTa75g10CvqH8abbcgaObNBEGXK  
GQwOuGfMdHq3/WOIEGpochPCS0k=  
-----END DEVICEON LICENSE REQUEST-----
```

Submit

Never give out your password. [Report abuse](#)

The feedback you submit will be sent to the creator of this survey.

Powered by Dynamics 365 Customer Voice

Step 23. Once the process is approved, the Licenses file will be received




2022/10/3 (週一) 下午 01:35

DeviceOn.Support@edgecenter.io

[DeviceOn] LicenseKey File

收件者  Wallace.Wu

 按一下這裡下載圖片。為了協助保護您的隱私，Outlook 不會自動下載郵件中的某些圖片。



LicenseFile.lf
677 個位元組

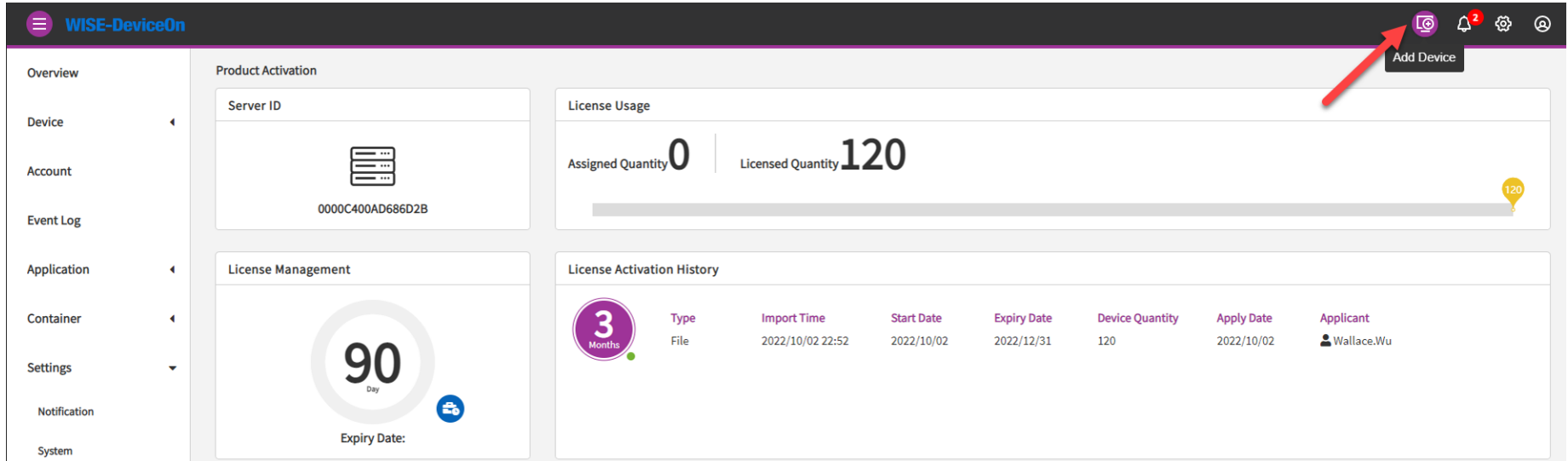
Step 24. Load the Licenses file on DeviceOn Cloud system

The screenshot displays the WISE-DeviceOn web interface. On the left is a navigation menu with items: Overview, Device, Account, Event Log, Application, Container, Settings, Notification, System, Product Activation, and Dashboard. The main content area is titled 'Product Activation' and contains a 'Server ID' field with the value '0000C400AD686D2B'. Below this is the 'License Management' section, which shows a large '0' in a purple circle with 'Day' underneath, and the text 'Expiry Date: Not Activated'. At the bottom of the license management section, there are two tabs: 'License Key' and 'License File'. The 'License File' tab is active, showing a text input field for the license file path, which is currently empty. A red warning icon and the message 'The fileinput field is required.' are visible below the input field. To the right of the input field are two buttons: 'Select a License File' and 'Activate'. An 'Open' file explorer window is overlaid on the right side of the interface, showing the path 'This PC > Desktop > DeviceOn_Server > Licenses'. The file explorer displays a table of files:

Name	Date modified	Type	Size
LicenseFile.lf	10/3/2022 1:37 PM	LF File	1 KB

The file explorer also shows a 'File name' field and a file type dropdown set to 'LF File', with 'Open' and 'Cancel' buttons at the bottom.

Step 25. click “Add Devices”



The screenshot displays the WISE-DeviceOn dashboard interface. The top navigation bar includes a menu icon, the text "WISE-DeviceOn", and several utility icons: a profile icon, a notification bell with a red "2" badge, a settings gear, and a user profile icon. A red arrow points to a purple "Add Device" button located in the top right corner of the dashboard area.

The dashboard content is organized into a sidebar and a main grid of panels:

- Sidebar (Left):** Contains navigation links for Overview, Device, Account, Event Log, Application, Container, Settings, Notification, and System.
- Product Activation Panel (Top Left):** Displays "Server ID" with a server rack icon and the ID "0000C400AD686D2B".
- License Usage Panel (Top Right):** Shows "Assigned Quantity 0" and "Licensed Quantity 120" with a progress bar and a yellow callout bubble containing "120".
- License Management Panel (Bottom Left):** Features a large circular gauge showing "90 Day" and a blue icon with a plus sign. Below it, the text "Expiry Date:" is visible.
- License Activation History Panel (Bottom Right):** Contains a table with the following data:

Type	Import Time	Start Date	Expiry Date	Device Quantity	Apply Date	Applicant
File	2022/10/02 22:52	2022/10/02	2022/12/31	120	2022/10/02	Wallace.Wu

Step 26. click “Download WISE-Agent” to get the WISE-AgentSetup file and Agent.config file

The screenshot shows the 'Device OnBoarding' interface with three steps: 'Set Up' (1), 'Select Devices' (2), and 'Confirm' (3). The 'Set Up' step is active, with the instruction: 'Setup your local device. Try to setup your local device, install WISE-Agent and connect to DeviceOn'. Below this, there are fields for 'Credential URL' (http://172.22.16.44:8080/rmm/v1/iothub/credential) and 'IoT Key' (da70de47149977dc0a2e74805826c6cf). A 'Download WISE-Agent' button with a download icon is highlighted with a red arrow. A 'Next' button is at the bottom right.

Overlaid on the interface is a Windows File Explorer window titled 'Downloads'. The address bar shows 'This PC > Downloads'. The file list contains two items:

Name	Date modified	Type	Size
Agent.config	10/2/2022 11:17 PM	CONFIG File	1 KB
WISE-AgentSetup_1.4.42	10/2/2022 11:19 PM	Application	92,321 KB

The 'WISE-AgentSetup_1.4.42' file is highlighted with a red box.

Step 27. install on Client device

The screenshot shows a Windows File Explorer window titled "WISE-Agent". The address bar shows the path "WISE-Agent" and a search box containing "Search WISE-Agent". The main pane displays a table of files:

Name	Date modified	Type	Size
Agent.config	10/2/2022 10:59 PM	CONFIG File	
WISE-AgentSetup_1.4.42			92,3

The file "WISE-AgentSetup_1.4.42" is selected, and a context menu is open over it. The menu options are:

- Open
- Run as administrator
- Troubleshoot compatibility

The "Run as administrator" option is highlighted with a red box.

Step 28. Add devices

Device OnBoarding ✕

Set Up **1** Select Devices **2** Confirm **3**

Selected Device
Select the devices you want to onboarding.

Device Name

Connected Devices Only Select All

DESKTOP-0D9LI03 ✕

Advanced Option

Device Groups

Select All Demo

Hint:

(1) WISE-Agent: Available for Windows 7 and above. For Ubuntu 18.04 please [contact us](#)

(2) Hint: To fast device onboarding, please put the WISE-Agent and credential file (Agent.config) into same folder.

Step 29. Add devices

Device OnBoarding ✕

1

2

3

Please Confirm

Confirm the information you chose.

Credential URL

`http://172.22.16.44:8080/rmm/v1/iotHub/credential`

IoT Key

`da70de47149977dc0a2e74805826c6cf`

Selected Device

Devices Amount:1



DESKTOP-0D9LI03

Device Groups Assigned

Groups Amount:1



Demo

Confirm

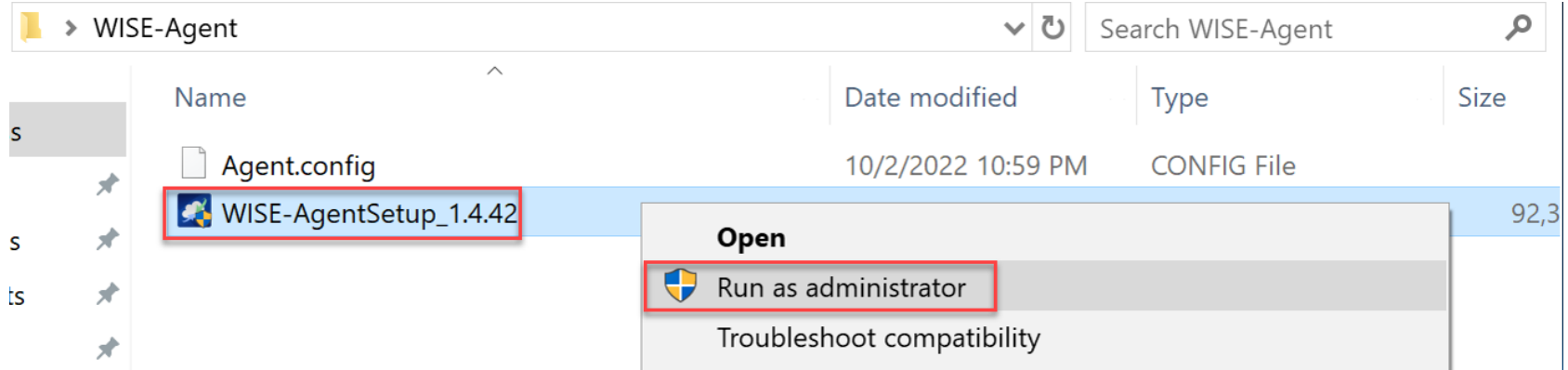
Step 30. check devices status

The screenshot displays the WISE-DeviceOn interface. On the left is a navigation sidebar with options: Overview, Device (selected), List, Monitoring, Remote Control, Data, Group, and Task. The main content area is titled 'List' and features filters for Account (root), Device Groups (All), and Status (All). Below the filters are action icons (add, delete, refresh, share, user), a search bar for 'Device Name' and 'Keyword Search', and summary statistics: 1 Connected, 1 Disconnected, and 0 Abnormal. A table below shows two device records:

STATUS	DEVICE NAME	GROUP COUNT	QUICK FUNCTION	WAKE-ON-LAN	MESSAGE	MORE
●	DESKTOP-KKMK1U4	1	Upgrade Power Protection	More...	Direct Mode	⋮
●	DESKTOP-0D9LI03	1	Upgrade Power Protection	More...	Direct Mode	⋮

DeviceOn Client Installation

Step 1. Copy those two files (WISE-AgentSetup_1.x.x.exe and Agent.config) to the target device and launch “WISE-AgentSetup_1.x.x.exe” as administrator



Step 2. Click “Next” to set up the WISE-Agent program



Step 3. Select “I Accept the terms in the License Agreement” and click “Next”

WISE-Agent Setup

End-User License Agreement

Please read the following license agreement carefully

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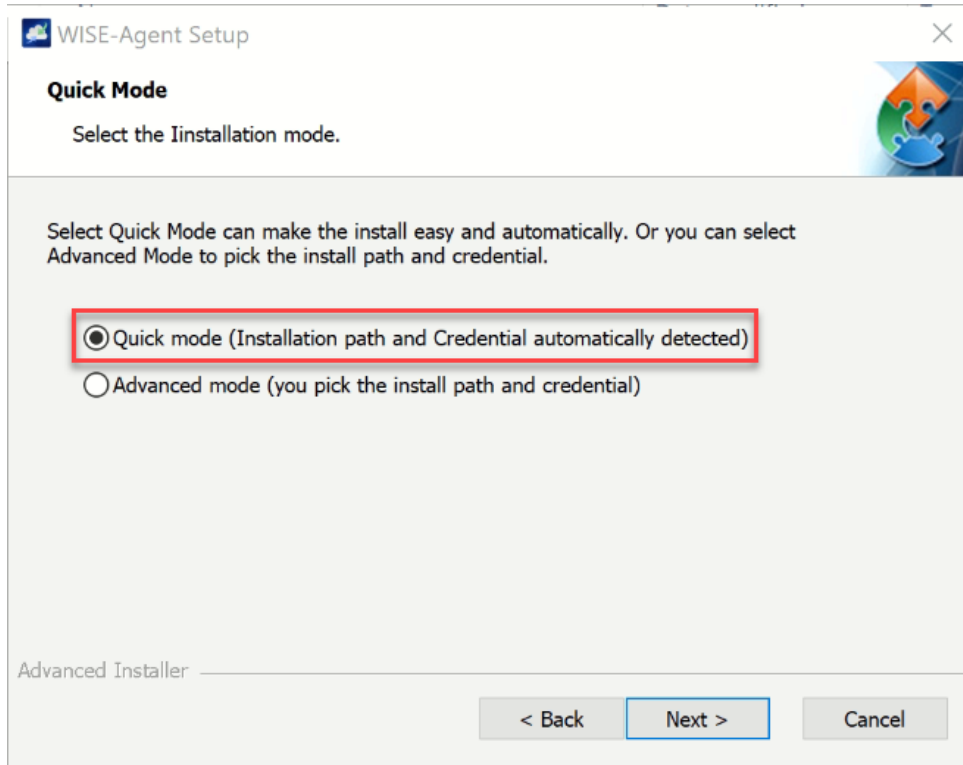
GRANT OF LICENSE:
ADVANTECH CO, LTD. (the "Licensor") grants to you this limited, non-exclusive, non-transferable, non-assignable license solely to use in a single copy of the Licensed Works

I accept the terms in the License Agreement

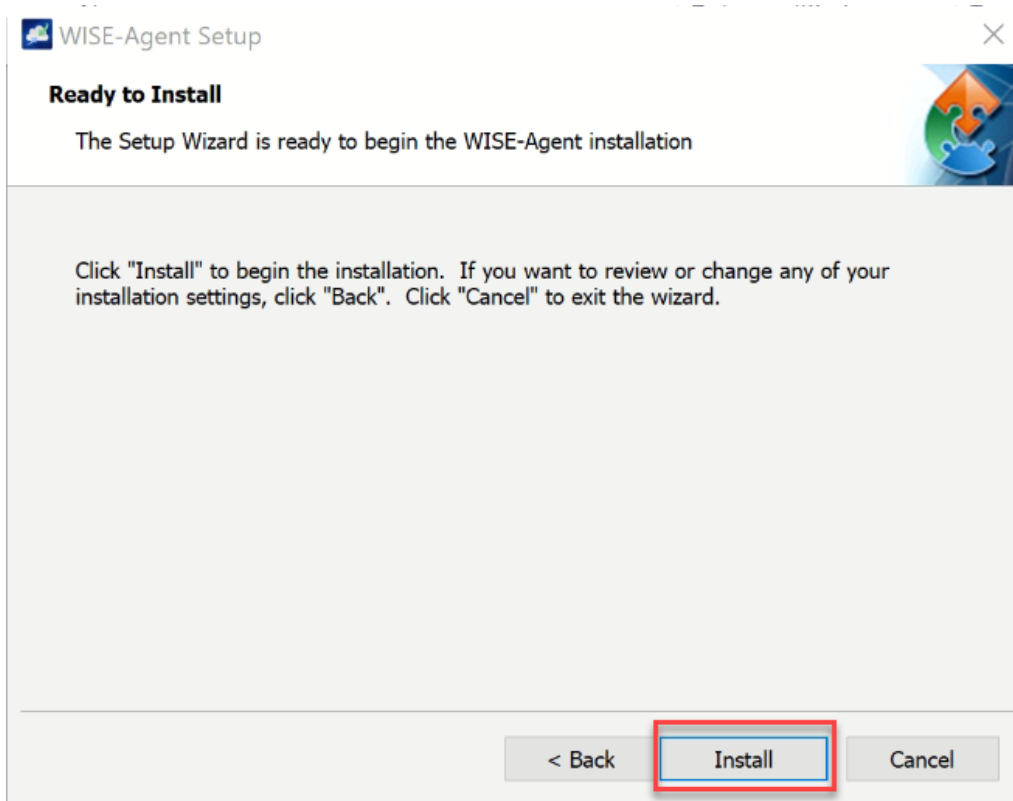
I do not accept the terms in the License Agreement

< Back Next > Cancel

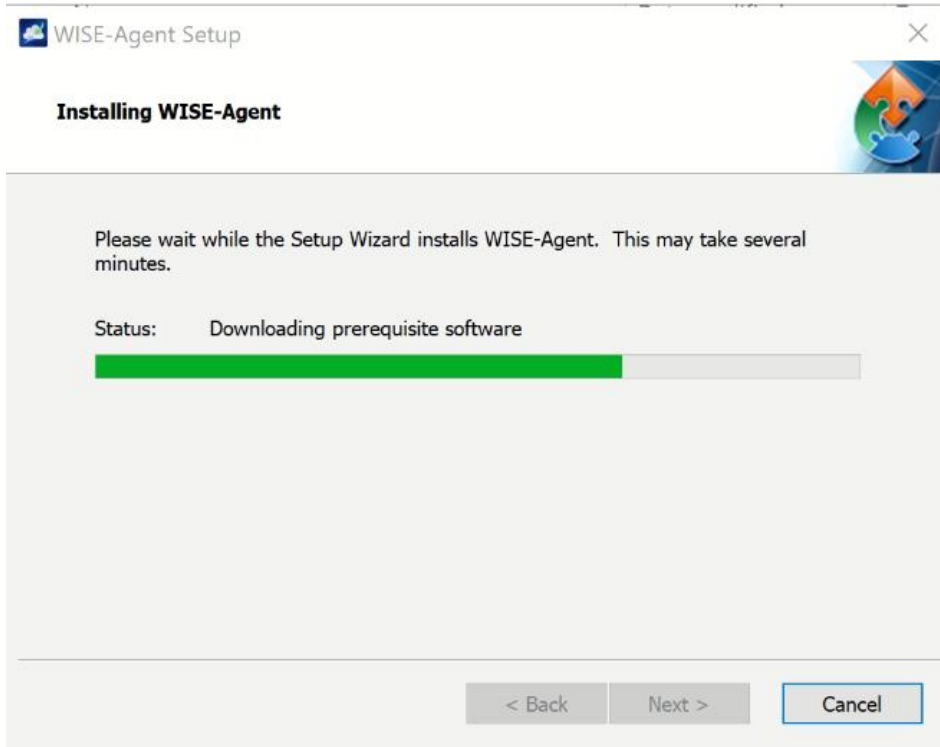
Step 4. select Quick mode as default install setting and click “Next”



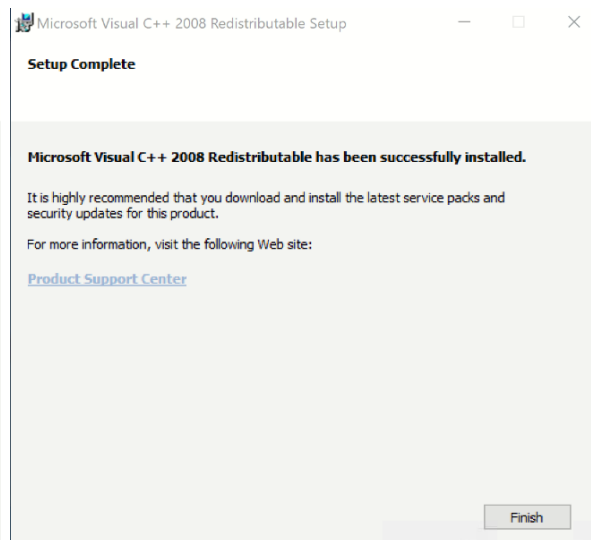
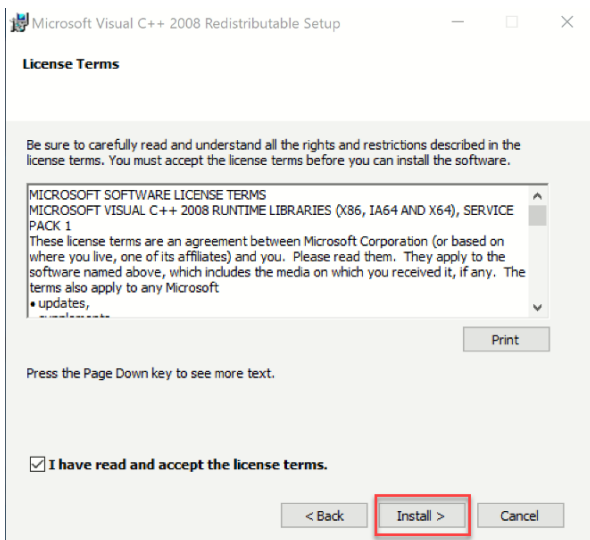
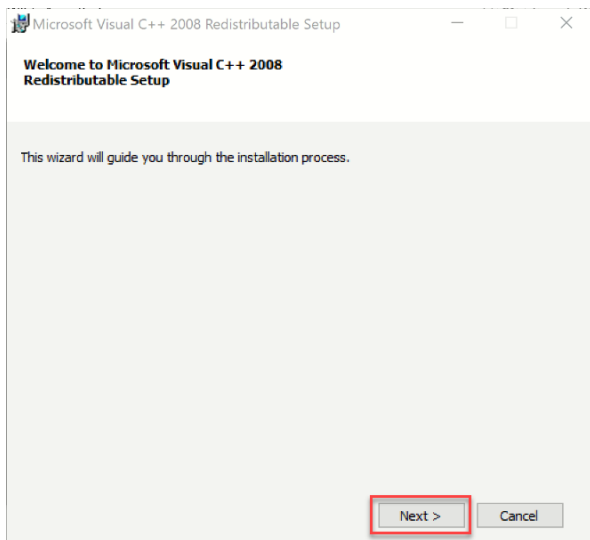
Step 5. Click “Install” to begin the installation



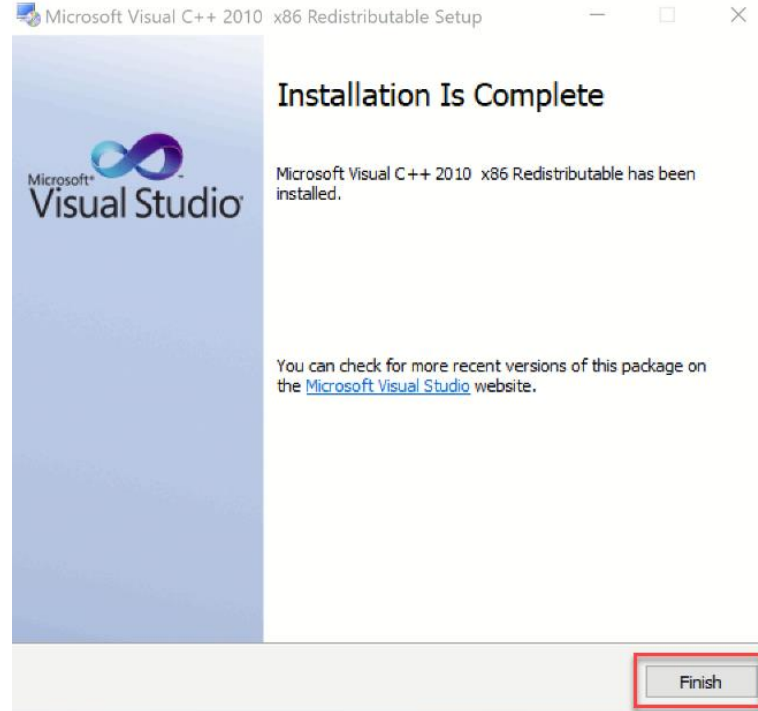
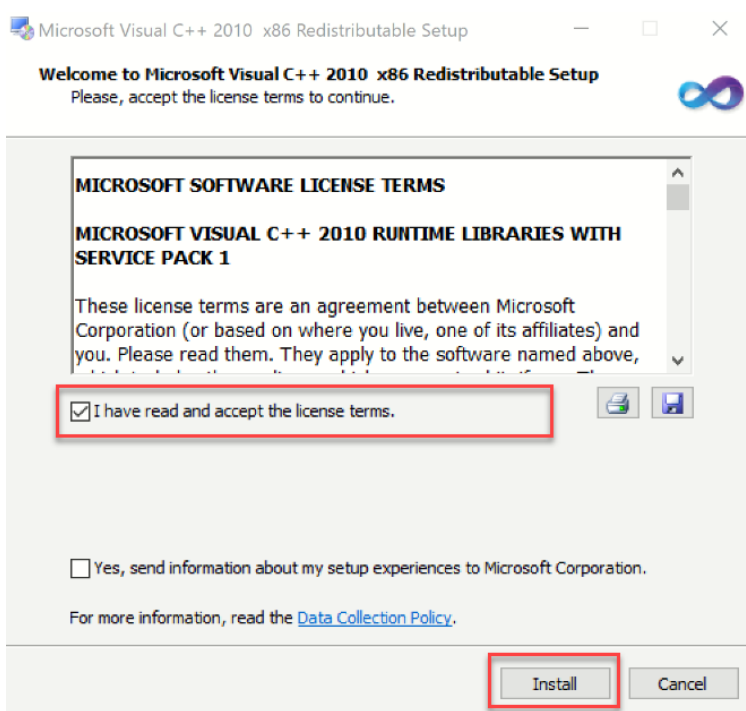
Step 6. Downloading prerequisite software



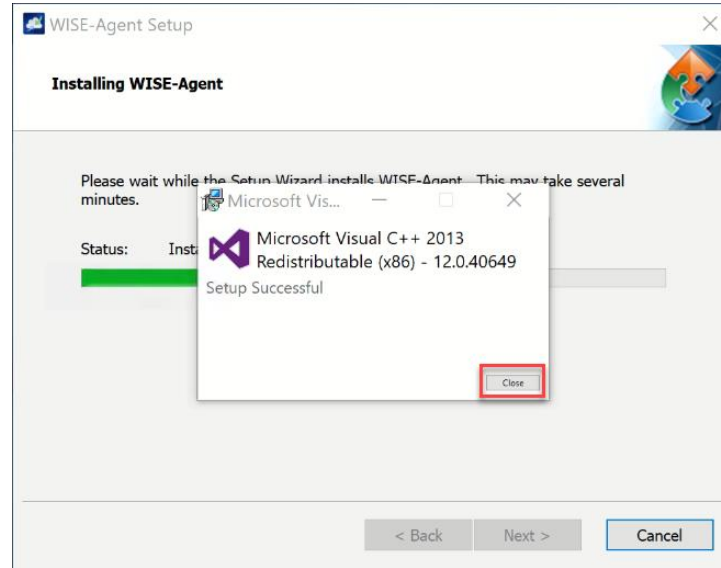
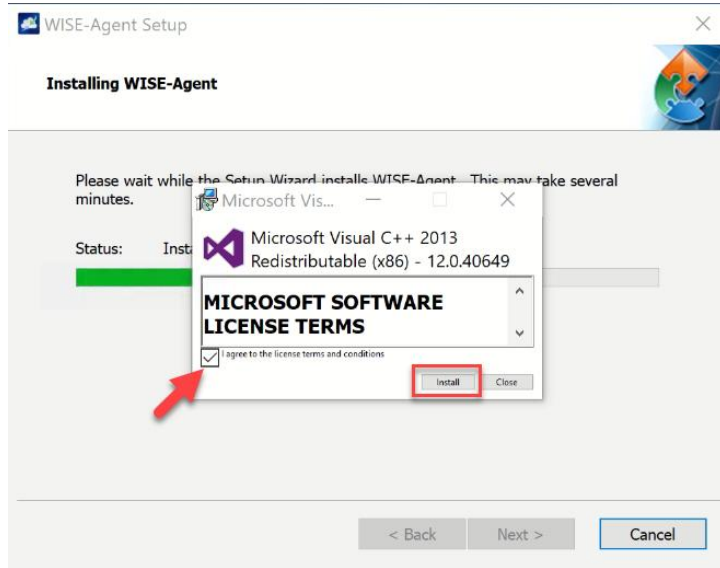
Step 7. WISE-Agent requires the Microsoft Visual C++ Redistributable 2008, 2013, 2015 x86 packages, which will be downloaded from the Internet and set up during the installation process. Click “Next” and “Install” to begin the installation



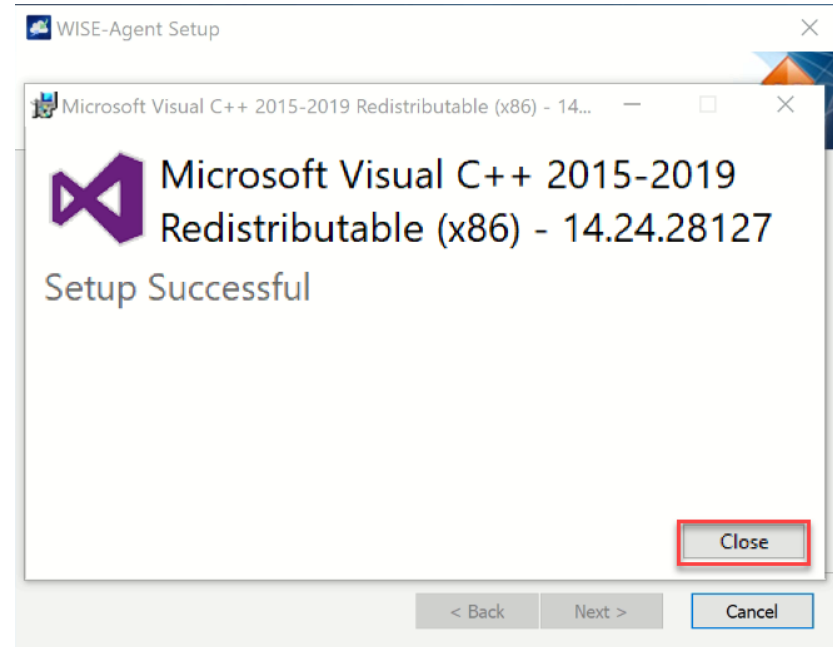
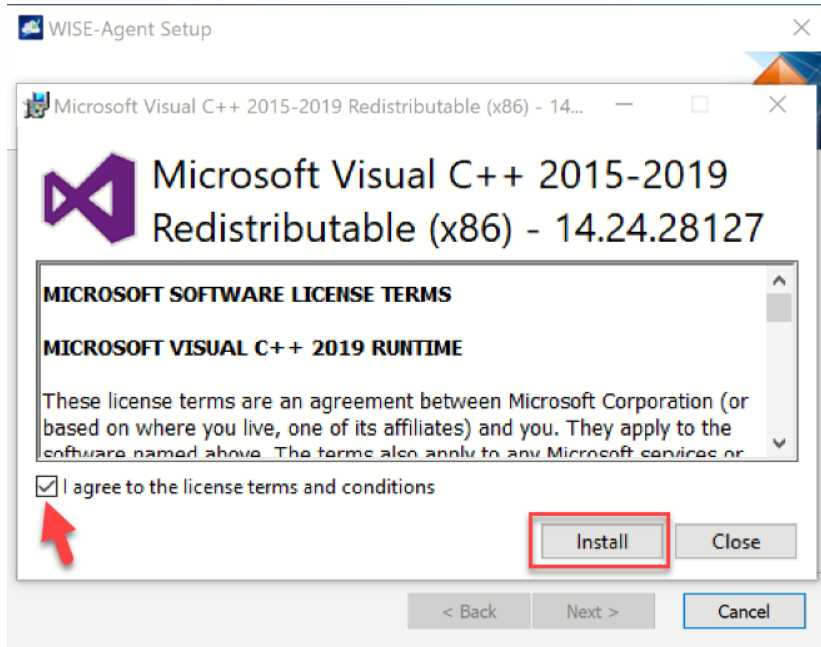
Step 8. Click “Install” to begin the installation



Step 9. Click “Install” to begin the installation



Step 10. Click “Install” to begin the installation




Step 11. select “Launch WISE-Agent” and Click “Finish” to exit the program



Step 12. check connection status

Service Connection

WISE-Agent



Agent ID:
00000001-0000-0000-0000-C400AD702B3B

Device Name:
DESKTOP-KKMK1U4

Credential URL:
<http://172.22.16.44:8080/rmm/v1/iothub/credential>

IoTKey:
f959bf7d16b6f8b9e97fd59e048b1bce

Connected

Disconnect

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Add App Script for AfuWin to flash BIOS

Step 1. The program must be command mode, and the program can only be executed through the inatall.bat and uninstall.bat scripts

This PC > Desktop > DeviceOn_Server > App > Flash BIOS > bin

Name	Date modified	Type	Size
5373000U060V111.BIN	2/8/2021 6:25 PM	BIN File	32,768 KB
AFUWINx64.exe	3/21/2022 5:47 PM	Application	1,088 KB
amifdrv64.sys	8/6/2021 7:50 PM	System file	29 KB
amigendrv64.sys	8/6/2021 7:50 PM	System file	35 KB
install.bat	10/3/2022 6:04 PM	Windows Batch File	1 KB
uninstall.bat	10/4/2022 12:55 AM	Windows Batch File	1 KB


Step 2. inatall.bat script

install.bat - Notepad

File Edit Format View Help

```
start AFUWINx64.exe 5373000U060V111.BIN /p /b /n /x /reboot
```


Step 3. uninstall.bat script

 uninstall.bat - Notepad









File Edit Format View Help

```
shutdown -r -t 10
```

Add App Script for TOP SWAP to flash BIOS

Step 1. The program must be command mode, and the program can only be executed through the inatall.bat and uninstall.bat scripts

DeviceOn_Server > App > Flash BIOS > bin_TOP SWAP > 5.15.02.783

Name	Date modified	Type	Size
 AFUWINx64.exe	3/21/2022 2:47 AM	Application	1,088 KB
 amifldr64.sys	8/6/2021 4:50 AM	System file	29 KB
 amigendr64.sys	8/6/2021 4:50 AM	System file	35 KB
 C301.ROM	10/4/2022 1:13 AM	ROM File	10,240 KB
 C301000U060XE15.BIN	10/4/2022 1:13 AM	BIN File	32,768 KB
 install.bat	10/10/2022 7:43 PM	Windows Batch File	1 KB
 readme.txt	3/4/2022 1:05 AM	Text Document	6 KB
 uninstall.bat	10/3/2022 10:50 PM	Windows Batch File	1 KB

Step 2. inatall.bat script

 install.bat - Notepad

File Edit Format View Help

```
xcopy C301.ROM C:\ /y  
AFUWINx64.exe C301000U060XE15.BIN /p /b /n /capsule /q
```

Step 3. uninstall.bat script

 uninstall.bat - Notepad

File Edit Format View Help

```
|shutdown -r -t 10
```

Add App on DeviceOn Cloud

Step 1. Select Repositories page to Add App


The screenshot displays the WISE-DeviceOn interface. On the left is a navigation sidebar with the following items: Overview, Device, Account, Event Log, Application, App Store, My devices, Repositories (highlighted in purple), Container, Settings, and Dashboard. The main content area is titled "App management" and shows a dropdown menu for "Repository" currently set to "Default_FTP". To the right of the dropdown are icons for a key and a lock. Below the dropdown is a toolbar with buttons for "App", "Solution Package", "Custom Layout", a plus sign (with a tooltip that says "Add App"), an upload icon, a trash icon, and a refresh icon. A "Keyword Search" input field is also present. The main area lists two installed applications:

App Name	Version	Last Update	Architecture
WISE-Agent	v 1.4.42.0	Update yesterday	Windows (x86)
IMX8WISEAgentSetup	v 1.4.1.0	Update yesterday	FSL Yocto (iMX8)

Step 2. Key-in App name

Add App ✕

App Information **1** Upload Your App **2** Confirm **3**



App Name
AMI AfuWin

App Type
 Application

Make Your App Available to the Public ⓘ

App Description ⓘ
No text content

App Image ⓘ
No Image

App Keywords (Max: 10) ⓘ +

Category Name (Max: 3) ⓘ
Select Category

Offered by ⓘ +
Advantech

Contact Support ⓘ +
N/A

Next

Step 3. Select App Icon Image

Add App

App Information

1



App Name

AMI AfuWin

App Type

Application

App Description

No text content

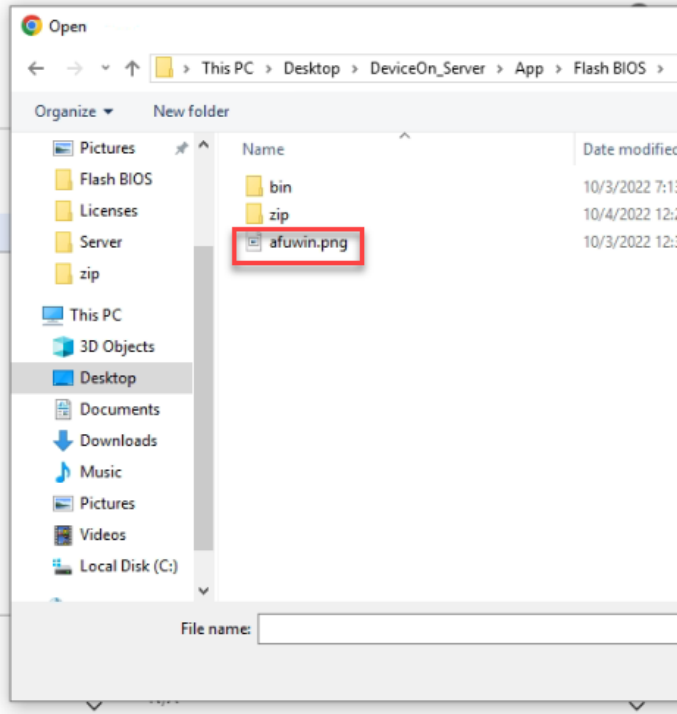
App Keywords (Max: 10) +

Category Name (Max: 3)

Select Category

Offered by +

Advantech



Next

Step 4. Key-in App Description

The image shows a two-part screenshot of the 'Add App' process. The left part shows the 'Add App' wizard at the 'App Information' step (1 of 3). The 'App Name' is 'AMI AfuWin'. The 'App Type' is 'Application'. The 'App Description' field is empty, with a red arrow pointing to an 'Edit App Description' button. The 'App Image' is 'No Image'. The 'App Keywords' field is empty. The 'Category Name' is 'Select Category'. The 'Offered by' is 'Advantech'. The 'Contact Support' is 'N/A'. A 'Next' button is at the bottom right.

The right part shows the 'Edit App Description' dialog box. It has a text area with the following content:

B I U [List Icon] [Menu Icon] [Link Icon]

AFU (AMI Firmware Update) is a package of utilities used to update the system BIOS under various operating systems. AFU only works for APTIO with SMI FLASH support.

Version : 5_15_02_0078

Note: AFU only works for APTIO with SMI FLASH support.
Compatible with [Aptio 5](#).

To run, extract all of the files from the folder with the name corresponding to the desired operating system.

Commands
The mandatory field is used to select an operation mode.

- /P Program Main BIOS.

At the bottom of the dialog, there are two buttons: 'Confirm' (highlighted with a red box) and 'Cancel'.

Step 5. Add App Keywords

Add App

1 App Information 2 Upload Your App 3 Confirm

App Name
AMI AfuWin

App Type
Application

Make Your App Available to the Public

App Description
AFU (AMI Firmware Update) is...

App Image
No Image

App Keywords (Max: 10) **+**

Category Name (Max: 3)
Select Category

Offered by **+**
Advantech

Contact Support **+**
N/A

Add Keywords

Flash BIOS, BIOS update, AfuWin

Flash BIOS + BIOS update + AfuWin +


Save Cancel

Next

Step 6. Add Category Classification

Add App ✕

App Information **1** Upload Your App **2** Confirm **3**



App Name
AMI AfuWin

App Type
 Application

Make Your App Available to the Public ⓘ

App Description ⓘ
AFU (AMI Firmware Update) is...

App Image ⓘ
No Image

App Keywords (Max: 10) ⓘ +
Flash BIOS ✕ BIOS update ✕ AfuWin ✕

Category Name (Max: 3) ⓘ

DES


Desktop applications

- Desktop Applications
- Illustration and Design

Step 7. Add App provider information

Add App

App Information **1** Upload Your App **2** Confirm **3**

 **App Name**
AMI AfuWin

App Type
Application **Make Your App Available to the Public**

App Description
AFU (AMI Firmware Update) is...

App Image
No Image

App Keywords (Max: 10)
Flash BIOS X BIOS update X AfuWin X

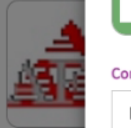
Category Name (Max: 3)
Add App provider information

Offered by +
Advantech

Contact Support +
N/A

Next

Add App provider information

 **Company Name**
AMI

Company Website
<https://www.ami.com/>

Company Bio

B I U [List Icons] [Link Icon]

AFU (AMI Firmware Update) is a package of utilities used to update the system BIOS under various operating systems. AFU only works for APTIO with SMI FLASH support.

Version : 5_15_02_0078

Note: AFU only works for APTIO with SMI FLASH support.
Compatible with Aprio 5.

To run, extract all of the files from the folder with the name corresponding to the desired operating system.

Commands
The mandatory field is used to select an operation mode.


-/P Program Main BIOS.

Confirm Cancel

Step 8. Click “Next” to continue

Add App ✕

App Information 1 Upload Your App 2 Confirm 3



App Name
AMI AfuWin

App Type
 Application

Make Your App Available to the Public ?

App Description ?
AFU (AMI Firmware Update) is...

App Image ?
No Image

App Keywords (Max: 10) ? +
Flash BIOS ✕ BIOS update ✕ AfuWin ✕

Category Name (Max: 3) ?
Desktop Applica... ✕

Offered by ? +
Advantech ▼

Contact Support ? +
N/A ▼

Next

Step 9. Add App Version information

Add App ✕

App Information 1 Upload Your App 2 Confirm 3

Version
5.15.02.786

Operating System
Select OS ▼

Change Log 📄
No text content

Save to 📁
Local ▼

Source Directory 📁 Select Directory

Install Script ▼ **Uninstall Script**

Advanced Option


Back Next


Step 10. Add App Operation System information


Add App ✕

App Information **1** Upload Your App **2** Confirm **3**

Version: 5.15.02.786

Change Log  No text content

Save to  Local

Source Directory  Select Directory

Install Script Uninstall Script

Advanced Option

Back Next

Step 11. Select Save to “Local”

Add App ✕

App Information 1 **Upload Your App** 2 **Confirm** 3

Version
5.15.02.786

Operating System
Windows (x64) ✕

Change Log [✎](#)
No text content

Save to [?](#)

Keyword Search

Local

Default_FTP

Advanced Option

[Back](#) [Next](#)

Step 12. Click “Select Directory” to upload Application files

Add App ✕

App Information Upload Your App Confirm

1 **2** **3**

Version: 5.15.02.786

Operating System: Windows (x64) ✕

Change Log [✎](#)
No text content

Save to [?](#)
Local

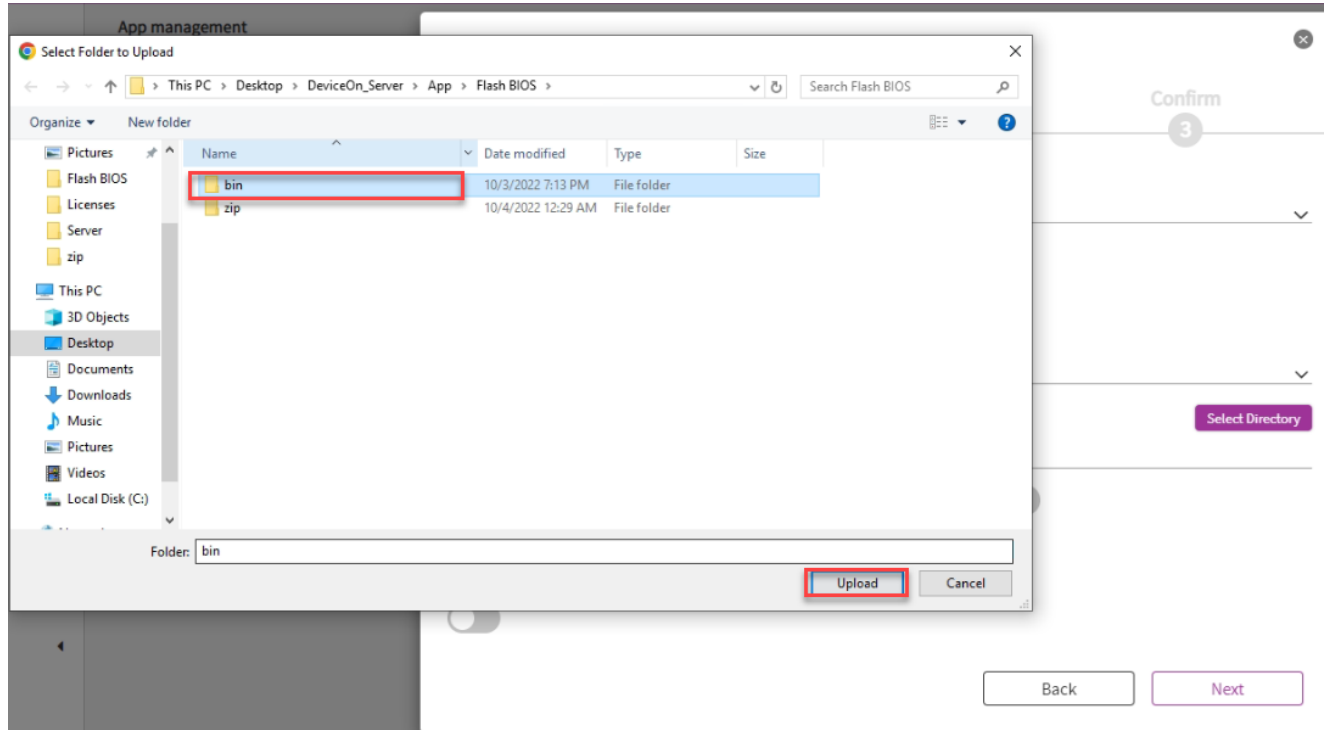
Source Directory [?](#) Select Directory

Install Script Uninstall Script

Advanced Option

Back Next

Step 13. upload Application files



Step 14. upload Application files

Upload 6 files to this site?
This will upload all files from "bin". Only do this if you trust the site.


Upload Cancel


Add App


App Information **1** Upload Your App **2** Confirm **3**

Version
5.15.02.786

Operating System
Windows (x64) ×

Change Log 
No text content

Save to 
Local

Source Directory  **Select Directory**

Install Script **Uninstall Script**

Advanced Option

Back **Next**

Step 15. Select install Script to “install.bat”

Add App ✕

App Information **1** Upload Your App **2** Confirm **3**

Version
5.15.02.786

Operating System
Windows (x64) ✕

Change Log [✎](#)
No text content

Save to [?](#)
Local

Source Directory [?](#) [Select Directory](#)
bin

Install Script **Uninstall Script**

AFUWINx64.exe

install.bat

uninstall.bat

[Back](#) [Next](#)

Step 16. Click "Uninstall Script" and select "uninstall.bat"

Add App ✕

1 App Information 2 Upload Your App 3 Confirm

Version
5.15.02.786

Operating System
Windows (x64) ✕

Change Log [📄](#)
No text content

Save to [?](#)
Local

Source Directory [?](#) Select Directory
bin

Install Script
install.bat

Uninstall Script

Advanced Option

AFUWINx64.exe

install.bat **uninstall.bat**

uninstall.bat

Step 17. Click “Next” to continue

Add App ✕

App Information **1** Upload Your App **2** Confirm **3**

Version
5.15.02.786

Operating System
Windows (x64) ✕

Change Log 📄
No text content

Save to ?
Local

Source Directory ? Select Directory
bin

Install Script
install.bat

Uninstall Script
uninstall.bat


Advanced Option

Back Next

Step 18. Click “Confirm” to complete the process

Add App ✕

App Information **1** Upload Your App **2** Confirm **3**

 App Name
AMI AfuWin

App Type
APP

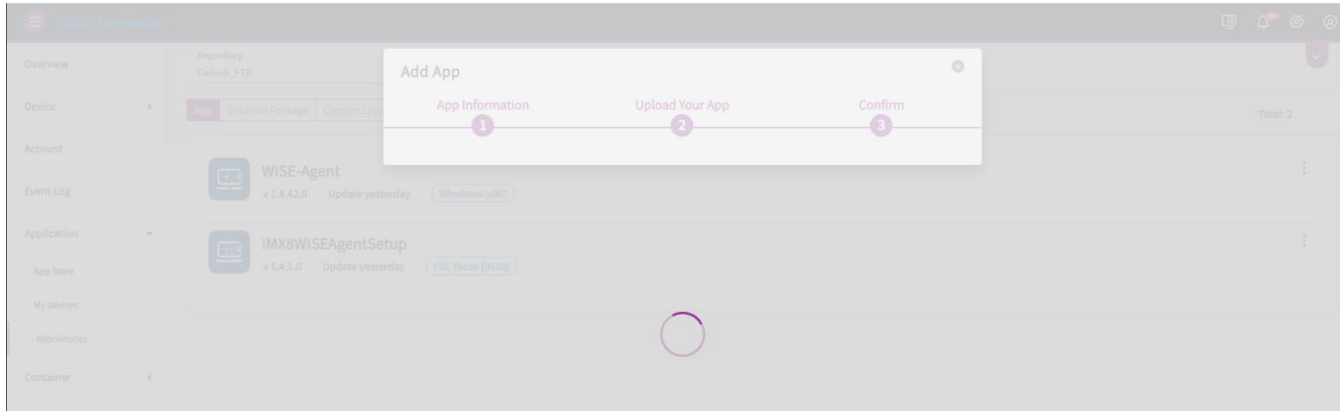
App Information | App Content

App Image
No Image

App Description
-/N Program NVRAM.
-/X Don't Check ROM ID.

Rules
- Any parameter enclosed by <> is a mandatory field.
- Any parameter enclosed by [] is an optional field.
- <Commands> cannot co-exist with any [Options].
- Main BIOS image is default flashing area if no any option present.
[PSP00] [A] and [G] will enable [B] function automatically.

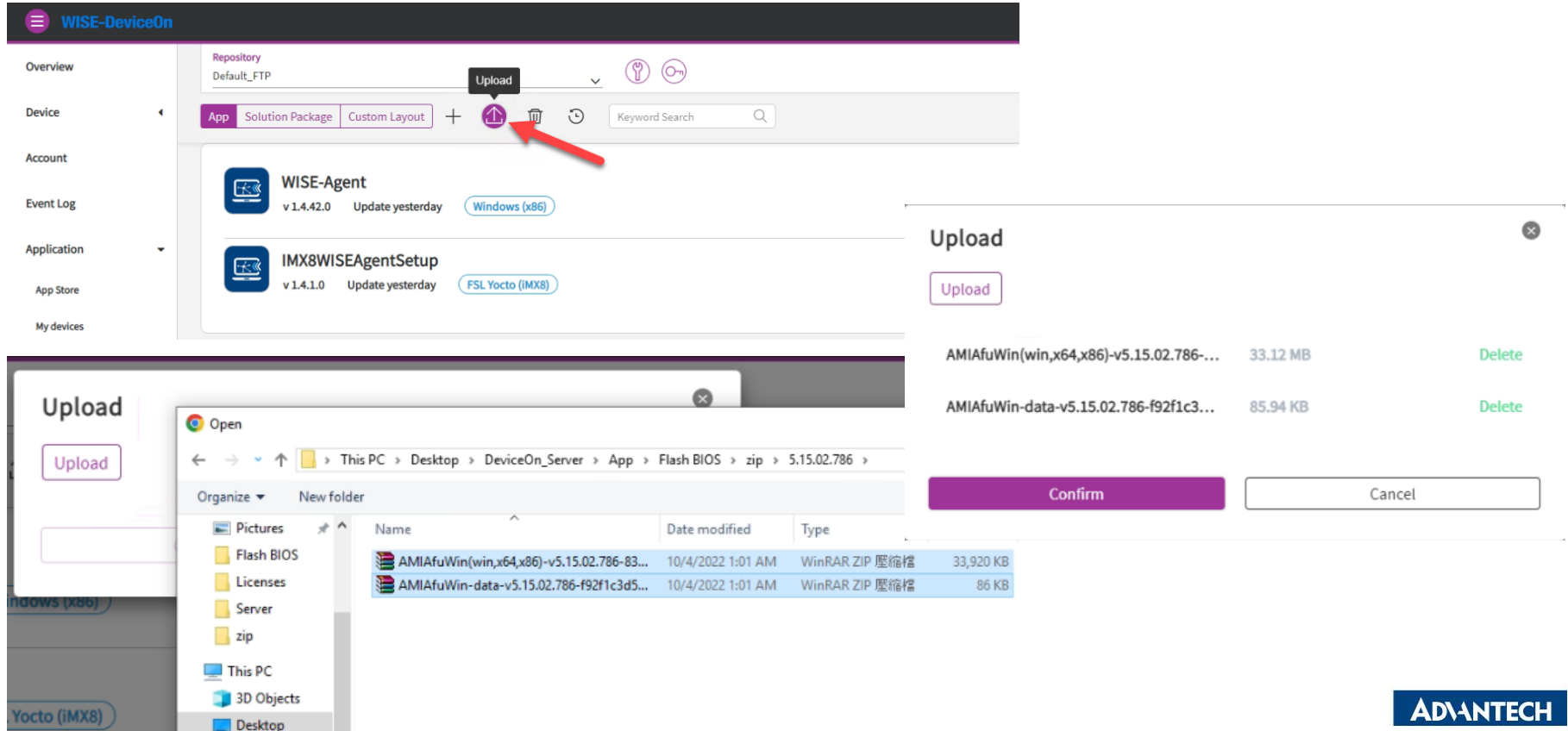
Step 19. there will be two zip files download to your local machine



The screenshot shows a Windows File Explorer window displaying the Downloads folder. The table below lists the files in the folder, with the two WinRAR ZIP files highlighted by a red border.

Name	Date modified	Type	Size
Agent.config	10/2/2022 11:17 PM	CONFIG File	1 KB
WISE-AgentSetup_1.4.42.exe	10/2/2022 11:19 PM	Application	92,321 KB
AMIAfuWin-data-v5.15.02.786-f92f1c3d5ede40f5c2dd7fedd57caedc.zip	10/4/2022 1:01 AM	WinRAR ZIP 壓縮檔	86 KB
AMIAfuWin(win,x64,x86)-v5.15.02.786-8380b985015c66a12f1b3a0f804b794c.zip	10/4/2022 1:01 AM	WinRAR ZIP 壓縮檔	33,920 KB

Step 20. Upload the ZIP file on Application/Repository page



The screenshot shows the WISE-DeviceOn interface. On the left is a navigation menu with items: Overview, Device, Account, Event Log, Application, App Store, and My devices. The main area displays a repository for 'Default_FTP' with an 'Upload' button. Below this, two applications are listed: 'WISE-Agent v 1.4.42.0' (Windows (x86)) and 'IMX8WISEAgentSetup v 1.4.1.0' (FSL Yocto (IMX8)). A red arrow points to the 'Upload' button in the application list.

An 'Upload' dialog box is open, showing a list of files to be uploaded:

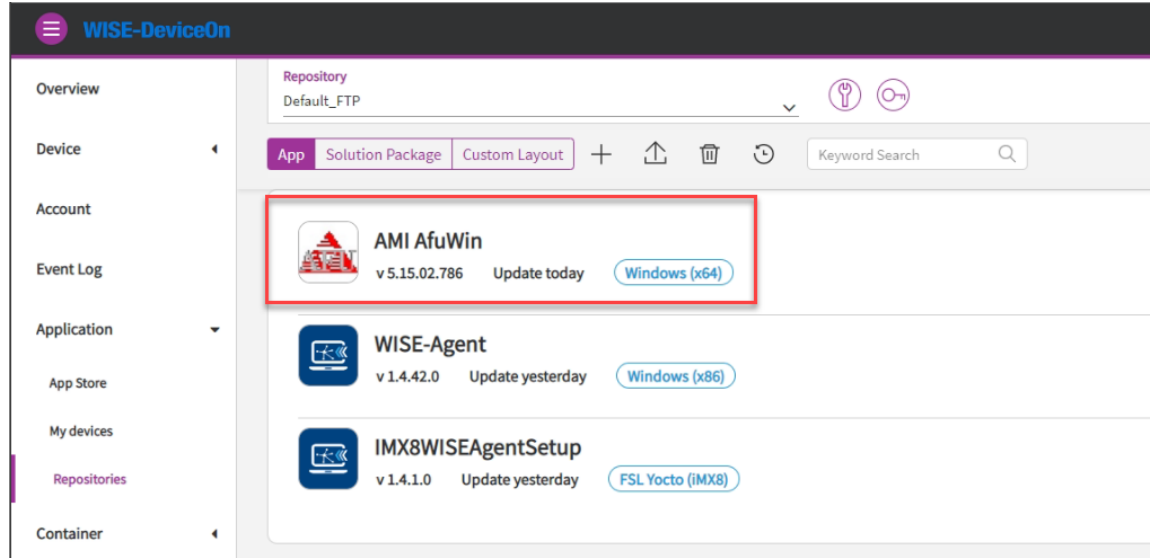
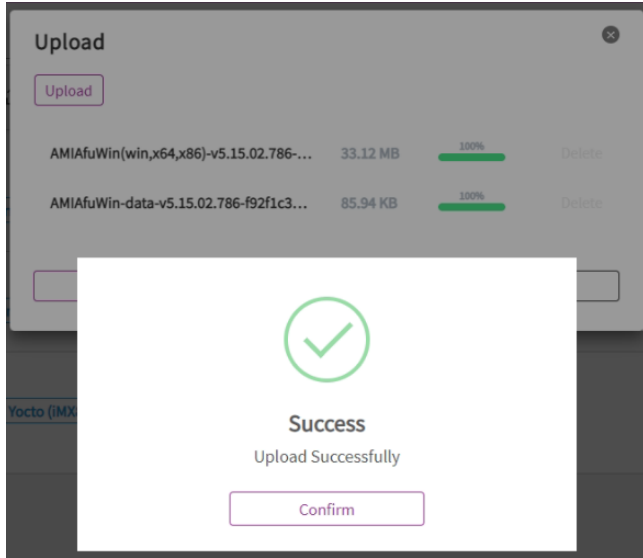
File Name	Size	Action
AMIAfuWin(win,x64,x86)-v5.15.02.786-...	33.12 MB	Delete
AMIAfuWin-data-v5.15.02.786-f92f1c3d5...	85.94 KB	Delete

At the bottom of the dialog are 'Confirm' and 'Cancel' buttons.

A Windows File Explorer window is open, showing the path: This PC > Desktop > DeviceOn_Server > App > Flash BIOS > zip > 5.15.02.786 >. The file list shows:

Name	Date modified	Type	Size
AMIAfuWin(win,x64,x86)-v5.15.02.786-83...	10/4/2022 1:01 AM	WinRAR ZIP 壓縮檔	33,920 KB
AMIAfuWin-data-v5.15.02.786-f92f1c3d5...	10/4/2022 1:01 AM	WinRAR ZIP 壓縮檔	86 KB

Step 21. The App has already upload to DeviceOn Cloud machine



Execute application on the cloud machine to issue commands to client device

Step 1. Check the Client device on Application/My devices page

The screenshot displays the WISE-DeviceOn web interface. On the left is a navigation sidebar with the following items: Overview, Device, Account, Event Log, Application (highlighted with a red underline), App Store, My devices (highlighted with a red underline), and Repositories. The main content area is titled 'Upgrade' and contains three dropdown menus: 'Account' (set to 'root'), 'Select Type' (set to 'Device'), and 'Select Device Group' (set to 'Default'). Below these is a 'Keyword Search' input field. The primary content is a list of devices, with one device, 'DESKTOP-KKMK1U4', highlighted by a red rectangular box. This device has a green status indicator and the text 'Installing App: 0' below its name.

Step 2. Clicks device and enter into App install page

DESKTOP-KKMK1U4 Device Details

Device Name

DESKTOP-KKMK1U4

Device ID

00000001-0000-0000-0000-C400AD702B3B

Last Connected At

2022/10/06 01:06:38

Product

Manufacturer

More

Memory

Installed

Suggested for the device



WISE-Agent
Version 1.4.42.0

Upgrade

Uninstall

Last update time: 24 minutes ago

Upgrade

Account

root

Keyword Search



● **DESKTOP-KKMK1U4**

Installing App: 0




Step 3. select “Suggested for the device”

DESKTOP-KKMK1U4 Device Details ✕


Device Name	Device ID	Last Connected At
DESKTOP-KKMK1U4	00000001-0000-0000-0000-C400AD702B3B	2022/10/06 01:06:38
Product	Manufacturer	Memory
	More	

Installed **Suggested for the device**

Keyword Search



AfuWin_TOP SWAP



AMI AfuWin

Step 4. select “AfuWin_TOP SWAP”

DESKTOP-KKMK1U4 Device Details ✕

Device Name

DESKTOP-KKMK1U4

Device ID

00000001-0000-0000-0000-C400AD702B3B

Last Connected At

2022/10/06 01:06:38

Product

Manufacturer

[More](#)

Memory

Installed

Suggested for the device

Keyword Search

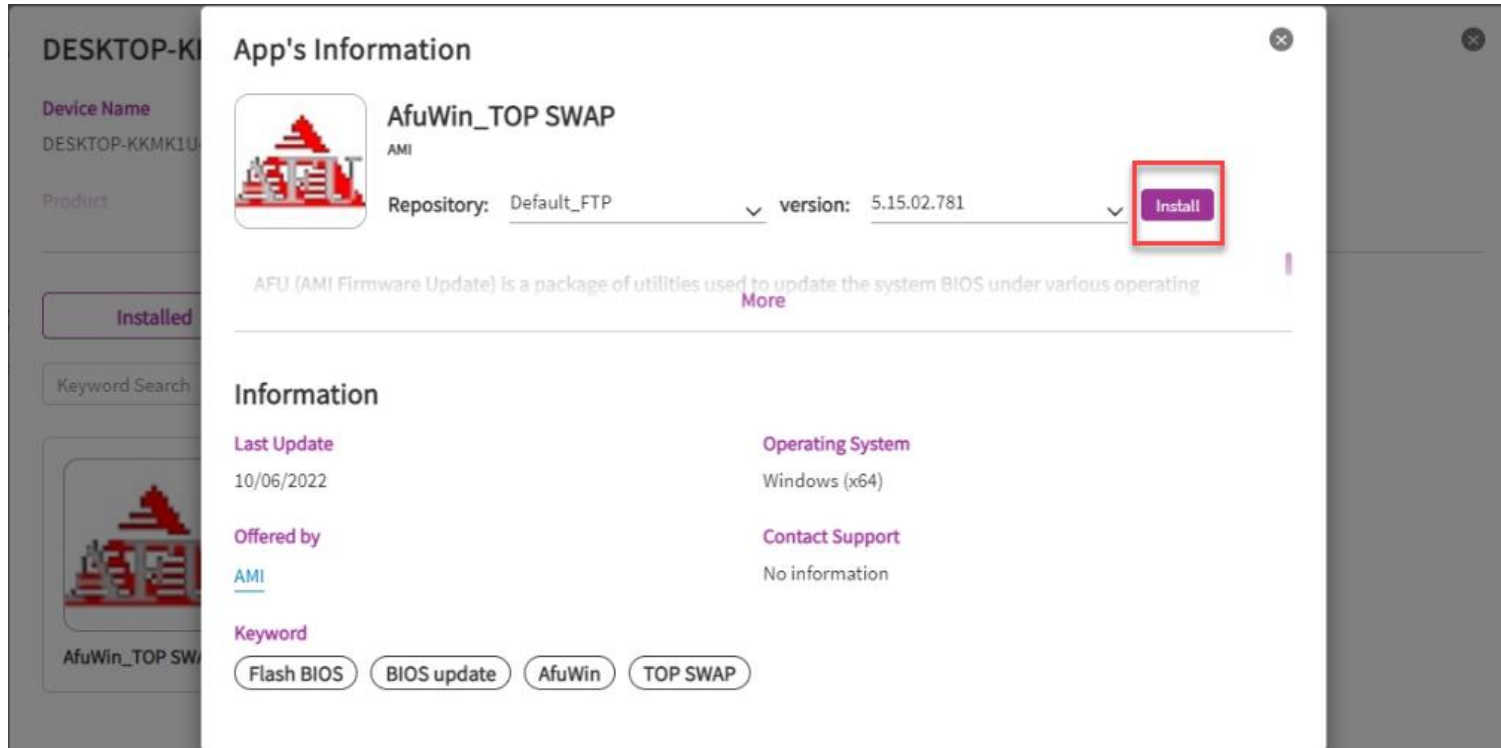


AfuWin_TOP SWAP




AMI AfuWin

Step 5. Click “Install”



App's Information

 **AfuWin_TOP SWAP**
AMI

Repository: Default_FTP version: 5.15.02.781 **Install**

AfuWin (AMI Firmware Update) is a package of utilities used to update the system BIOS under various operating systems. [More](#)

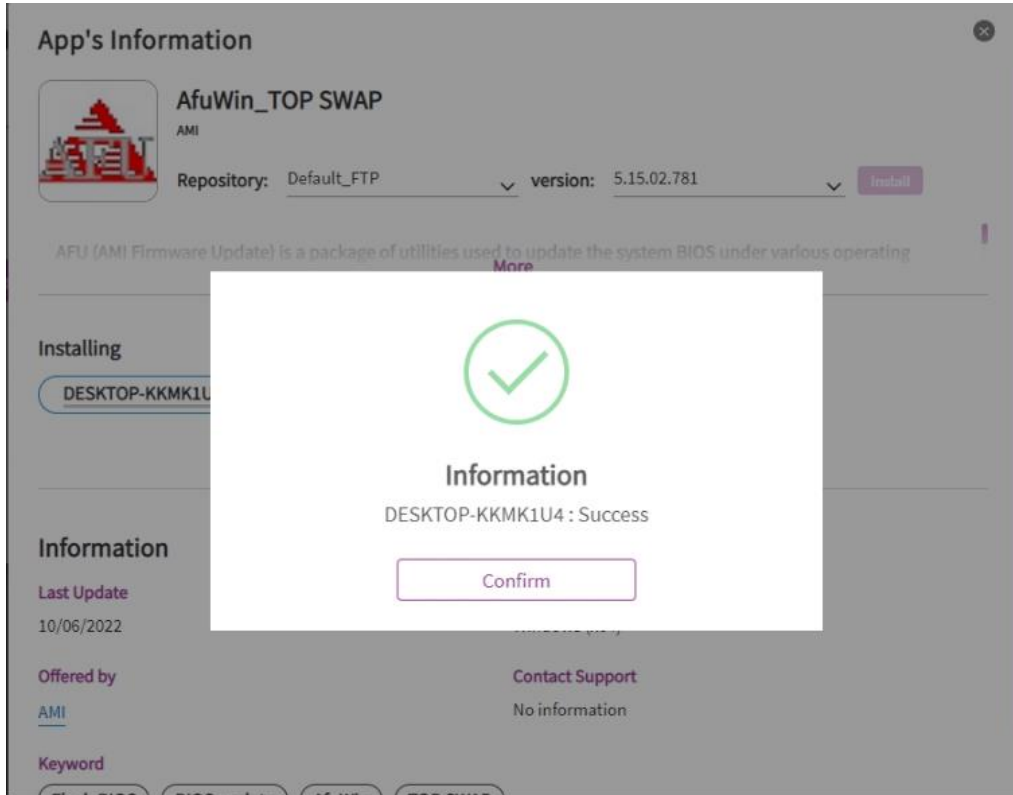
Information

Last Update 10/06/2022	Operating System Windows (x64)
Offered by AMI	Contact Support No information

Keyword

Flash BIOS BIOS update AfuWin TOP SWAP

Step 6. The system will start executing the program to Client device



The screenshot displays a software management window titled "App's Information" for the application "AfuWin_TOP SWAP" by AMI. The repository is set to "Default_FTP" and the version is "5.15.02.781". An "Install" button is visible. Below the application details, a description states: "AFU (AMI Firmware Update) is a package of utilities used to update the system BIOS under various operating systems." A modal dialog box is overlaid on the screen, featuring a green checkmark icon and the text "Information" and "DESKTOP-KKMK1U4 : Success". A "Confirm" button is located at the bottom of the dialog. The background interface also shows sections for "Installing" (with a button for "DESKTOP-KKMK1U4"), "Information" (with "Last Update" as 10/06/2022 and "Offered by" as AMI), and "Keyword" (with terms like "Flash BIOS", "BIOS update", "AFU Win", and "TOP SWAP").

Step 7. Client device will reboot and begin to update BIOS

Once BIOS update completed, it will reboot into the OS



Step 8. Once you need to execute the program again, you must first execute the uninstall program

DESKTOP-KKMK1U4 Device Details

Device Name

DESKTOP-KKMK1U4

Device ID

00000001-0000-0000-0000-C400AD702B3B

Last Connected At

2022/10/06 01:44:23

Product

Manufacturer

More

Memory

Installed

Suggested for the device



AfuWin_TOP SWAP
Version 5.15.02.781

Upgrade

Uninstall



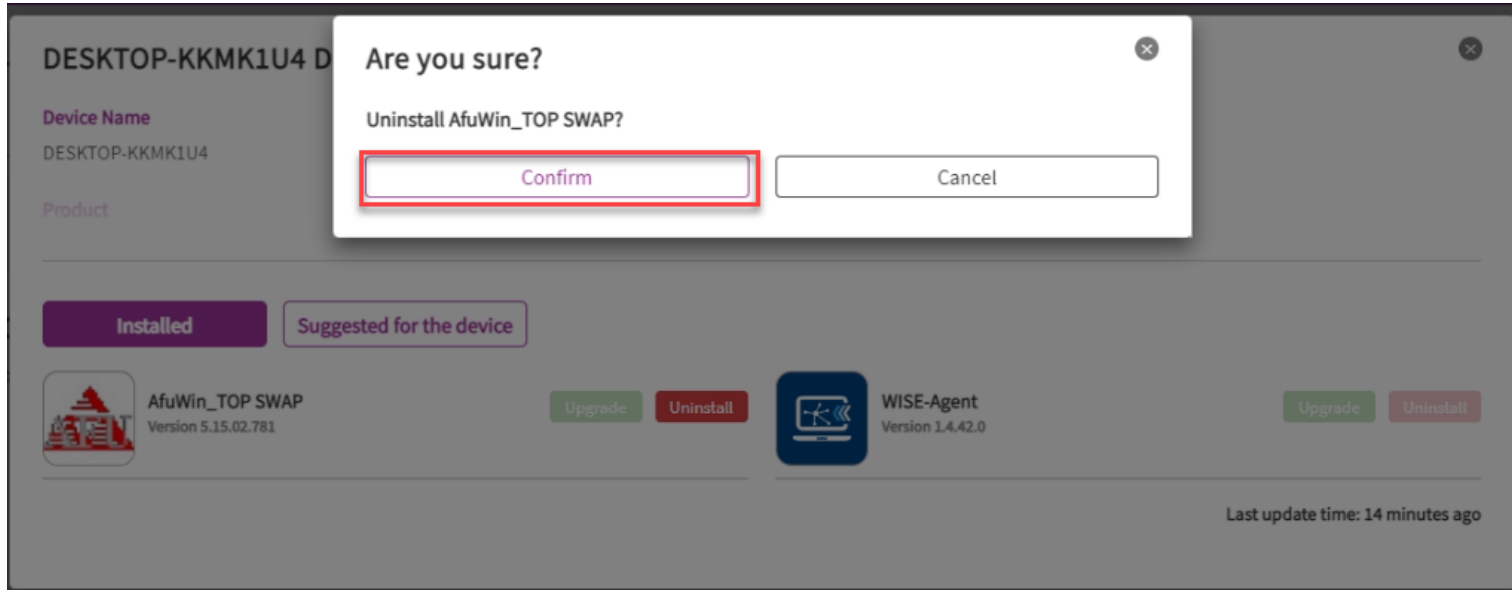
WISE-Agent
Version 1.4.42.0

Upgrade

Uninstall

Last update time: 11 minutes ago

Step 9. Click “Confirm” to uninstall program



The screenshot displays a software management interface for a device named "DESKTOP-KKMK1U4 D". A modal dialog box is open, asking "Are you sure?" to "Uninstall AfuWin_TOP SWAP?". The "Confirm" button is highlighted with a red border, indicating the next step in the process. The background interface shows a list of installed software, including "AfuWin_TOP SWAP" (Version 5.15.02.781) and "WISE-Agent" (Version 1.4.42.0). The "AfuWin_TOP SWAP" entry has "Upgrade" and "Uninstall" buttons, while "WISE-Agent" has "Upgrade" and "Uninstall" buttons. The "Uninstall" button for "AfuWin_TOP SWAP" is currently disabled. The "Last update time" is shown as "14 minutes ago".

DESKTOP-KKMK1U4 D

Device Name
DESKTOP-KKMK1U4

Product

Installed Suggested for the device

AfuWin_TOP SWAP
Version 5.15.02.781

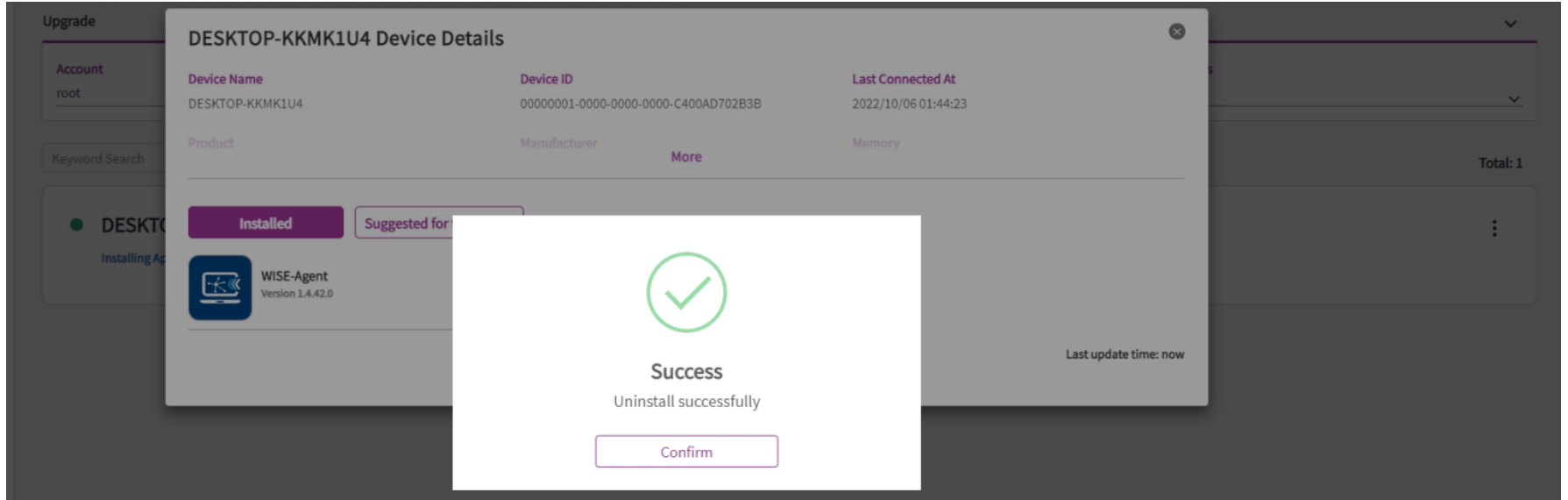
WISE-Agent
Version 1.4.42.0

Upgrade Uninstall Upgrade Uninstall

Last update time: 14 minutes ago

Step 10. Click “Confirm” to uninstall program

Once uninstall program completed, the system will reboot into the OS



The screenshot displays a device management interface with a modal window titled "DESKTOP-KKMK1U4 Device Details". The modal contains the following information:

Device Name	Device ID	Last Connected At
DESKTOP-KKMK1U4	00000001-0000-0000-0000-C400AD702B3B	2022/10/06 01:44:23

Below the table, there are sections for "Product", "Manufacturer", "More", and "Memory". A purple "Installed" button is visible. A "Suggested for" section is partially visible.

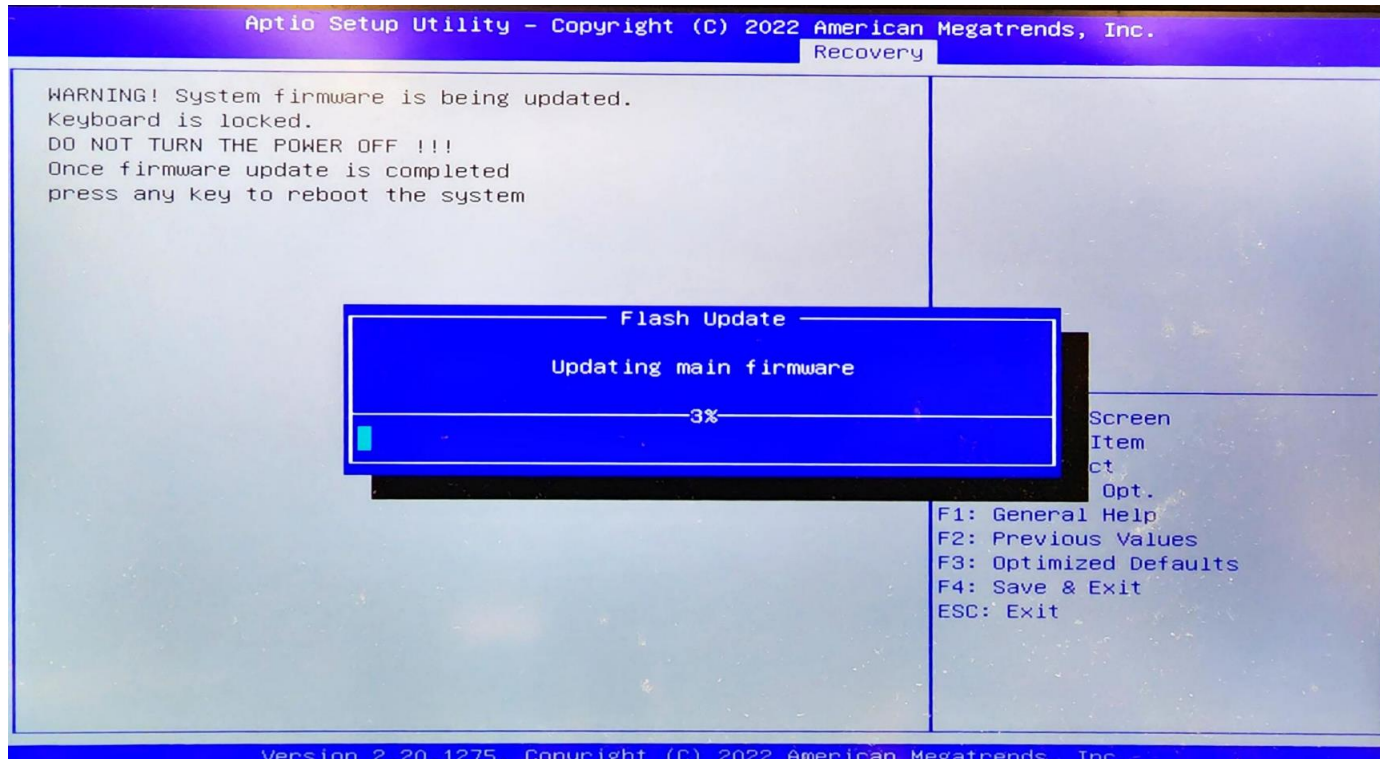
In the foreground, a white success message box is displayed with a green checkmark icon. The text reads:

Success
Uninstall successfully

A "Confirm" button is located at the bottom of the success message box.

At the bottom right of the modal, it says "Last update time: now".

Step 11. If the system is powered off during the BIOS update or fails to update the BIOS due to other reasons, the system will beep twice after reboot and enter Recovery mode to update the BIOS



Update App Version on DeviceOn Cloud

Update App Version

Once user need to modify the content of the App that has been uploaded to the cloud service, it must add an App version.

Add App

App Information Upload Your App Confirm

1 2 3

Version
5.15.02.783

Operating System
Select OS

Change I 5.15.02
No text c 5.15.02.781
Save to 5.15.02.782
Local 5.15.02.783
Source 5.15.02.785

1

Install Script Uninstall Script

Advanced Option

Back Next

*Go Together,
We Go Far and Grow Big*

