upKeeper Manager 5.2

Installation instructions

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Prerequisites

Prerequisites are described in the document "upKeeper 5.0 - Installation Prerequisites".

Report management

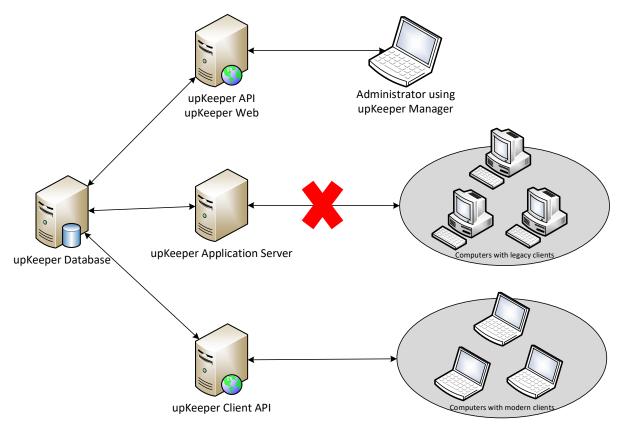
Management of reports is described in the document "upKeeper 3.9 – SQL Reporting"



System overview

Server components can all be installed on the same server or spread on different servers (see picture below). If you are new to the system or want advice, please consult with an upKeeper expert.

Notice! Older upKeeper Manager Clients and upKeeper Manager SOS that requires WCF (Windows Communication Framwork) is no longer supported. upKeeper Manager Clients and upKeeper Manager SOS must be of upKeeper version 4.0 or newer.





Installing Server Components

Note that before installing, you must notify your provider or upKeeper Solutions to activate the license.

Installation – upKeeper Database

- Sign in with administrative rights to the server that will be used for the upKeeper database.
- Execute the file upKeeper.DB.4.3.0.msi
- Select server\instance.
- Enter the name of the upKeeper database.
- Specify if you want to use Integrated Security or SQL Server Authentication.

Note! The rest of this document will assume that SQL Server Authentication is used

😸 upKeeper Database 3.0 S	ietup			
Database Settings				~
Click Next for default se	ttings			5.
Server Name:	(local)			
Database Name:	upkeeper			
Use Integrated	Security			
<u>U</u> ser Name:	upkeeper			
Password:	password]	
		Back	Next	Cancel

• Run each database update script to reach current version.



Installation – upKeeper API

Sign in with administrative rights to the server that will be used for the upKeeper API.

Create a folder named "upKeeper" in the path "C:\Program Files\".

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Quick access		Name	ng serves	Date modi		ype	Size	
Desktop	*	Microsoft Visual Studio 10.0		2021-01-09	9 19:37 F	ile folder		
Downloads	*	Microsoft.NET		2021-01-09	9 19:36 F	ile folder		
Documents		Mozilla Firefox		2022-11-29	9 19:50 F	ile folder		
	*	MSBuild		2021-01-10		ile folder		
Pictures	A	Notepad++		2022-03-11		ile folder		
Install		Reference Assemblies		2021-01-10		ile folder		
Postinst		upKeeper		2022-11-29		ile folder		
📙 SQL Server Management Stud	io	uvnc bvba		2021-04-16		ile folder		
Temp		Windows Admin Center		2022-08-03		ile folder		
-	_	Windows Defender		2021-01-17		ile folder		
💻 This PC		Windows Defender Advance	d Threat Pro	2022-11-29		ile folder		
🔿 Network		Windows Mail		2021-08-23		ile folder		
*		Windows Media Player		2022-08-03		ile folder		
		Windows Multimedia Platfor	m	2018-09-15		ile folder		
		windows nt		2018-09-15		ile folder		
		Windows Photo Viewer		2021-01-17	7 21:01 F	ile folder		



📙 🛃 🧮 🖛 upKeeper				- 0	×
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	n (C:) > Program Files > upKeeper >			upKeeper	Q
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🖈 Quick access		2022-11-2		Size	
Desktop		2022-11-2	.9 20.02 File folder		
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Pictures	A.				
Install					
Postinst					
SQL Server Management Studio					
💻 This PC					
💣 Network					
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1 item 1 item selected					:==

Create a folder named "API" in the path "C:\Program Files\upKeeper".



Extract the content of the file "upKeeper Admin API 5.x.x.zip" into the "API" folder just created.

8 🖓 📄 🖛	Extract	upKeeper Admin API 5.0.0.zip			- 🗆	×
File Home Share View	Compressed Folder Tools					^ ?
Documents	E Pictures	Temp				
Install	upKeeper	API				
SQL Server Management Studio	Client	config files				
	Extract To					
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Pictures	* ^ Name	Туре	Compressed size	Password	Size	1
API	Content	File folder				
Install	runtimes	File folder				
Temp	Settings	File folder				
upKeeper	appsettings.json	JSON File	1 KB	No		2 K
	AutoMapper.dll	Application extension	103 KB	No	2	48 K
💻 This PC	AutoMapper.Ext	ensions.Microsoft Application extension	6 KB	No		13 K
🧊 3D Objects	Azure.Core.dll	Application extension	114 KB	No	2	60 K
Desktop	EfSchemaCompa	are.dll Application extension	20 KB	No		45 K
Documents	Google.Authenti	cator.dll Application extension	7 KB	No		13 K
Downloads	Humanizer.dll	Application extension	113 KB	No	2	51 K
Music	log4net.dll	Application extension	96 KB	No	2	52 K
Pictures	logging.json	JSON File	1 KB	No		3 K
	Microsoft.AspNe	etCore.Authenticat Application extension	20 KB	No		40 K
📑 Videos	Microsoft.Bcl.As	yncInterfaces.dll Application extension	8 KB	No		15 K
System (C:)	Microsoft.Code	Analysis.dll Application extension	941 KB	No	2.5	82 K
Data (D:)	v <	· · · · · · · · · · · · · · · · · · ·				>
97 items						==



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Pictures	* ^	Name		Date modif	fied	Туре		Size		
API		Content		2022-12-06	10-44	File folder				
Install		runtimes		2022-12-06		File folder				
Temp		Settings		2022-12-06		File folder				
upKeeper		Upkeeper.Server.WebApi.exe		2022-12-06	09:22	Application		145 KB		
		AutoMapper.dll		2022-12-06	09:21	Application e	extens	248 KB		
💻 This PC		AutoMapper.Extensions.Micro	soft.Depen	2022-12-06	09:21	Application e	extens	13 KB		
🧊 3D Objects		Azure.Core.dll		2022-12-06	09:21	Application e	extens	260 KB		
📃 Desktop		EfSchemaCompare.dll		2022-12-06	09:21	Application e	otens	45 KB		
🔮 Documents		Google.Authenticator.dll		2022-12-06	09:21	Application e	xtens	13 KB		
Downloads		🗟 Humanizer.dll		2022-12-06	09:21	Application e	extens	251 KB		
Music		🗟 log4net.dll		2022-12-06	09:21	Application e	extens	252 KB		
Pictures		Microsoft.AspNetCore.Authen	tication.Jw	2022-12-06	09:21	Application e	extens	40 KB		
		Microsoft.Bcl.AsyncInterfaces.	dll	2022-12-06	09:21	Application e	extens	15 KB		
Videos		Microsoft.CodeAnalysis.dll		2022-12-06		Application e	extens	2 582 KB		
System (C:)		Microsoft.CodeAnalysis.Visual	Basic.dll	2022-12-06		Application e	otens	4 764 KB		
👝 Data (D:)	~	Microsoft.Data.SqlClient.dll		2022-12-06	09:21	Application e	extens	350 KB		

The "API" folder after extraction (content can look different due to version).



💐 Internet Information Services (IIS)	Manager						- 🗆	×
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	<				>			
	`							
< >	📑 Features View 🕼	Content View						
Ready								• <u> </u>

Open "Internet Information Services (IIS) Manager" on the server.

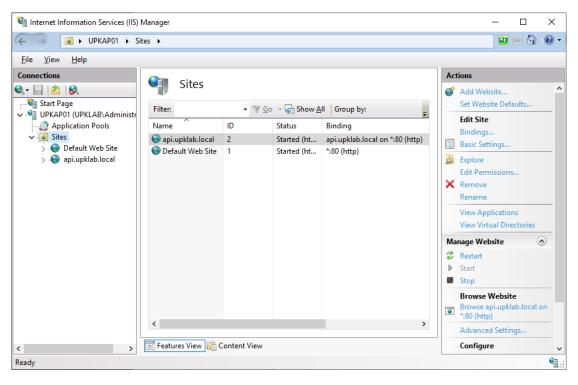


Add new web site in "Internet Information Services (IIS) Manager". The "Physical path" should point to the folder where you extracted the API files. Remember to change the "host name" to a DNS address reachable from where the system will be administrated.

Add Website	?	\times
Site name: Application pool: api.upklab.local Select		
Content Directory Physical path: C:\Program Files\upKeeper\API Pass-through authentication Connect as Test Settings		
Binding <u>Type:</u> <u>IP address:</u> <u>Port:</u> <u>All Unassigned</u> <u>80</u> <u>Host name:</u>		
api.upklab.local Example: www.contoso.com or marketing.contoso.com		
Start Website immediately		
ОК	Cance	I



Available sites should look like this.





Installation – upKeeper Administration Website

Sign in with administrative rights to the server you used for the upKeeper API Website

Create a folder named "Web" in the path "C:\Program Files\upKeeper".

I I I I I I I I I I I I I I I I I I I				- 🗆	×
A Cut A Copy path A Copy path Paste Paste Paste Paste Paste		New item •	Properties	Select all Select none	
Clipboard	Organize	New	Open	Select	
← → × ↑ 📙 > This PC > System	(C:) → Program Files → upKeeper →		ע ט Search נ	ıpKeeper	P
Install	Name	Date mod	ified Type	Size	
SQL Server Management Studio	API	2022-11-2			
	Web	2022-11-2			
upKeeper					
💻 This PC					
3D Objects					
Desktop					
Documents					
Downloads					
Music					
Pictures					
🚪 Videos					
System (C:)					
🕳 Data (D:)					
Network	~				
THE					



Extract the content of the file "upKeeper Admin Web 5.x.x.zip" into the "Web" folder just created.

🖳 🔽 📃 🖛	Extract	upKeeper Admin Web 5.0.0.zip		-		X
File Home Share View	Compressed Folder Tools				^	2
 Documents Install Postinst 	Pictures SQL Server Manageme upKeeper	nt Studio upKeeper upKeeperShare		↓ Extract		
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← → × ↑ 🔢 « Data (D:) → Ins	stall → upKeeper 5.0 → up#	Keeper Admin Web 5.0.0.zip >	~ Ō	Search upKeeper Ad	dmin Web 🌶	D
Install	^ Name	^ Туре		Compressed size	Password	S
SQL Server Management Studio	css	File folder				
📙 Temp	images	File folder				
📙 upKeeper	js	File folder				
💻 This PC	libs	File folder				
3D Objects	views	File folder				
Desktop	📄 config.json	JSON File		1 KB	No	
Documents	🕘 index.html 🌋 sw.js	HTML Document		4 KB 2 KB	No No	
Downloads	web.config.log	JavaScript File		2 KB 1 KB	No	
Downloads Music	web.comig.iov	LOCALTIC		T KB		
Pictures						
Videos						
System (C:)						
🔜 Data (D:)						
Network 9 items	~ <					2



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File Home Share View				^
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\leftarrow \rightarrow \checkmark \uparrow \square \rightarrow This PC \rightarrow System	(C:) > Program Files > upKeeper	> Web >	✓ Ö Search \	Web 🌙
Install	Name	Date mod	ified Type	Size
SQL Server Management Studio	css	2022-11-2		
Temp	images	2022-11-2		
upKeeper	js	Date created: 2022-11-29 20	:11	
This PC	libs	Size: 736 KB Files: bg.jpg, bg-image.png	Bild1.ico. favicon.ico	
-	views	2022-11-2]
3D Objects	📄 config.json	2022-11-2	9 13:53 JSON File	1 KB
E Desktop	🕘 index.html	2022-11-2	9 13:14 HTML Docu	iment 22 KB
Documents	🌋 sw.js	2022-11-2	9 13:14 JavaScript Fi	ile 4 KB
🕂 Downloads	web.config.local	2022-11-2	9 13:14 LOCAL File	1 KB
👌 Music				
E Pictures				
🗃 Videos				
System (C:)				
🕳 Data (D:)				
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9 items				

The "Web" folder after extraction (content can look different due to version).



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Start Page UPKAP01 (UPKLAB\Administr Application Pools Sites Default Web Site S @ Default Web Site	Filter: Name Pi.upklab.local Default Web Site	• 🐨 Go ID 2 1	o - ↓ Show A Status Started (ht	II Group by: Binding api.upklab.local on *:80 (http) *:80 (http)		Add Website Set Website Defaults Edit Site Bindings Basic Settings Explore Edit Permissions Remove Rename View Applications View Virtual Directories	• -
	<	Content View		>	Ma 2 0	Restart Start Stop Browse Website Browse api.upklab.local on *:80 (http) Advanced Settings Configure	
Ready							¶.:

Open "Internet Information Services (IIS) Manager" on the server

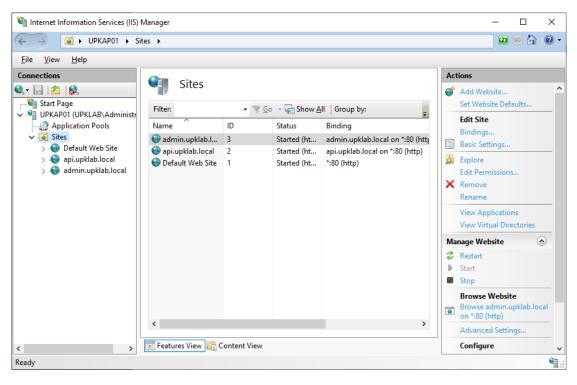


Add new web site in "Internet Information Services (IIS) Manager". The "Physical path" should point to the folder where you extracted the web files. Remember to change the "host name" to a DNS address reachable from where the system will be administrated.

Add Website	?	\times
Site name: App <u>l</u> ication pool:		
admin.upklab.local admin.upklab.local S <u>e</u> lect		
Content Directory		
Physical path:		
C:\Program Files\upKeeper\Web		
Pass-through authentication		
Connect as Test Settings		
Binding		
<u>Type:</u> <u>IP address:</u> P <u>ort:</u>		
http V All Unassigned V 80		
Host name:		
admin.upklab.local		
Example: www.contoso.com or marketing.contoso.com		
Start Website i <u>m</u> mediately		
ОК	Cancel	I



Available sites should look like this.





Installation – upKeeper Client API

Sign in with administrative rights to the server you used for the upKeeper Administration Website or any server with the feature Internet Information Server enabled.

Create a folder named "Client" in the path "C:\Program Files\upKeeper".

Image: Image					×
Pin to Quick Copy access Copy Paste	Move Copy to Copy	New folder	Properties	Select all Select none	
Clipboard	Organize	New	Open	Select	
\leftarrow \rightarrow \checkmark \uparrow \blacksquare \Rightarrow This PC \Rightarrow System (C:) → Program Files → upKeeper →		✓ ট Search u	ipKeeper	P
Install 🗖	Name	Date mod	ified Type	Size	
SQL Server Management Studio	API	2022-11-2	9 20:05 File folder		
	Client	2022-11-2	9 20:14 File folder		
upKeeper	- Web	2022-11-2	9 20:11 File folder		
 This PC 3D Objects Desktop Documents Downloads Music Pictures Videos System (C:) Data (D:) 					
Network					



Extract the content of the file "upKeeper Client API 5.x.x.zip" into the "Client" folder just created.

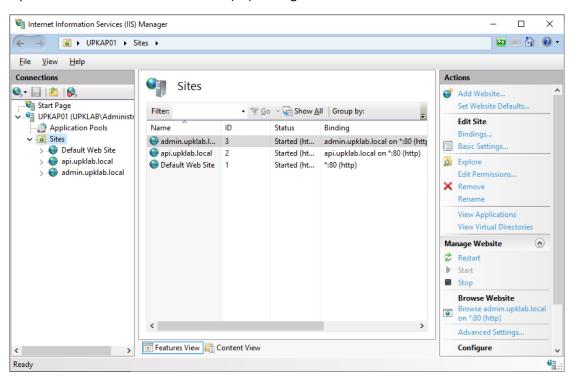
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Documents	E Pictures	Temp	Ĵ		
Install	upKeeper	API			
SQL Server Management Studio	Client	config files			
	Extract T	ō			
← → × ↑ 🕌 → This PC → D.	ata (D:) → Install → upKeeper	5.0 → upKeeper Client API 5.0.0.zip →	ٽ ~	Search upKeep	oer Client API 5 🔎
Pictures	* ^ Name	Туре	Compressed size	Password	Size
API	runtimes	File folder			
, Install	appsettings.Dev	velopment.json JSON File	1 KB	No	1 K
Temp	appsettings.jso	n JSON File	1 KB	No	1 K
upKeeper	AutoMapper.dl	Application extension	103 KB	No	248 K
	AutoMapper.Ex	tensions.Microsoft Application extension	6 KB	No	13 K
💻 This PC	EfSchemaComplexity	pare.dll Application extension	20 KB	No	45 K
🧊 3D Objects	📄 logging.json	JSON File	1 KB	No	2 K
📃 Desktop	Microsoft.Code	Analysis.dll Application extension	941 KB	No	2 582 K
Documents	Microsoft.Code	Analysis.VisualBasi Application extension	1 640 KB	No	4 764 K
	Microsoft.Data.	.SqlClient.dll Application extension	86 KB	No	350 K
h Music	Microsoft.Data.	Sqlite.dll Application extension	68 KB	No	166 K
Pictures	Microsoft.Entity	FrameworkCore.A Application extension	16 KB	No	30 K
	Microsoft.Entity	yFrameworkCore.dll Application extension	663 KB	No	2 048 K
📑 Videos	Microsoft.Entity	yFrameworkCore.Re Application extension	483 KB	No	1 455 K
🏪 System (C:)		yFrameworkCore.Sq Application extension	81 KB	No	201 K
👝 Data (D:)	v <				>
82 items					B== 🖿



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in to Quick Copy access	Paste Daste shortcut	Move Copy to * to *	New item •	✓	Edit		ct all ct none rt selection	
Clip	pboard	Organize	New	Ор	en	S	elect	
← → ~ ↑ 📘	→ This PC → System (C	:) > Program Files > upKeeper >	Client >			√ Č	Search Client	م
Pictures	* ^	Name	Date m	odified	Гуре ^		Size	
API		runtimes	2022-12	-06 10:46	File folder			
Install		Upkeeper.ClientApi.exe			Application		145 KB	
Temp		AutoMapper.dll	2022-12	-06 09:23	Application exte	ens	248 KB	
upKeeper		AutoMapper.Extensions.Mic	rosoft.Depen 2022-12	-06 09:23	Application exte	ens	13 KB	
		EfSchemaCompare.dll	2022-12	-06 09:23	Application exte	ens	45 KB	
💻 This PC		Microsoft.CodeAnalysis.dll	2022-12	-06 09:23	Application exte	ens	2 582 KB	
🗊 3D Objects		Microsoft.CodeAnalysis.Visu	alBasic.dll 2022-12	-06 09:23	Application exte	ens	4 764 KB	
📃 Desktop		Microsoft.Data.SqlClient.dll	2022-12	-06 09:23	Application exte	ens	350 KB	
Documents		Microsoft.Data.Sqlite.dll	2022-12	-06 09:23	Application exte	ens	166 KB	
🖶 Downloads		Microsoft.EntityFramework	Core.Abstract 2022-12	-06 09:23	Application exte	ens	30 KB	
Music		Microsoft.EntityFrameworkC	Core.dll 2022-12	-06 09:23	Application exte	ens	2 048 KB	
Pictures		Microsoft.EntityFramework			Application exte	ens	1 455 KB	
Videos		Microsoft.EntityFramework			Application exte		201 KB	
		Microsoft.EntityFramework			Application exte		442 KB	
System (C:)		Microsoft.Extensions.Cachin			Application exte		38 KB	
🔜 Data (D:)	~	Microsoft.Extensions.Config	uration.dll 2022-12	-06 09:23	Application exte	ens	39 KB	

The "Client" folder after extraction. (Content can look different due to version)





Open "Internet Information Services (IIS) Manager" on the server



Add new web site in "Internet Information Services (IIS) Manager". The "Physical path" should point to the folder where you extracted the web files. Remember to change the "host name" to a DNS address reachable from the clients.

Add Website	?	×
Site name: Application pool: client.upklab.local client.upklab.local		
Content Directory		
Physical path: C:\Program Files\upKeeper\Client		
Pass-through authentication		
<u>C</u> onnect as Test Settings		
Binding		
<u>I</u> ype: <u>I</u> P address: P <u>o</u> rt:		
http v All Unassigned v 80		
Host name:		
Example: www.contoso.com or marketing.contoso.com		
Start Website i <u>m</u> mediately		
ок	Cance	4
	Cance	



Available sites should look like this.

Internet Information Services (IIS) N	Manager					– 🗆 X
← → Image: Optimized and image: Optimiz	tes 🕨					😰 🕺 🙆 •
<u>F</u> ile <u>V</u> iew <u>H</u> elp						
Connections	Citere				Ac	tions
Image Image Image	Filter: Name	• 🐨 <u>G</u> o ID 3	Status Started (ht	II Group by:	*	Add Website Set Website Defaults Edit Site Bindings Basic Settings
 Oefault Web Site Oefault Web Site	 api.upklab.local client.upklab.lo Default Web Site 	4 Started	Started (ht Started (ht Started (ht	api.upklab.local on *:80 (http) client.upklab.local on *:80 (http) *:80 (http)	2	Explore Edit Permissions Remove Rename View Applications
					Ma	View Virtual Directories
					\$ ▲	Restart Start Stop
	<			>	•	Browse Website Browse client.upklab.local on *:80 (http)
						Advanced Settings
< >	📰 Features View [🛅 C	ontent View				Configure
Ready						• <u>1</u>

Edit the configuration file

Perform the following changes in the file **Web.config**, located in the **Destination Folder** (C:\Program Files\upKeeper\API) specified during the installation.

In order to use the improved security headers include this key:

```
<add key="UseHeaderAuthorization" value="true"/>
```



Configuring - upKeeper API

Edit the configuration file

Perform the following changes in the configuration files (Web.config, appsettings.json, logging.json) located in the **Destination Folder** (C:\Program Files\upKeeper\API) specified during the installation.

📕 🛃 🧮 🖛 API				– 🗆 X
File Home Share View	Move Copy Delete Rename	New item ▼ 1 Easy access ▼	→ Open ▼ Properties	Select all
access Clipboard	to • to • • Organize	folder New	Open	Select
	C:) > Program Files > upKeeper >	API	V Ö Search	API Q
Install	Name	Date mo		Size
SQL Server Management Studio	System.ServiceModel.Primiti		29 13:19 Application	extens 23 KB
upKeeper	System.Windows.Extensions.	dll 2022-11-	29 13:19 Application	extens 25 KB
This PC 3D Objects	Upkeeper.Admin.Services.dll	2022-11-	29 13:19 Application	extens 75 KB
Desktop	🕙 Upkeeper.Common.Domain			
Documents Downloads	Upkeeper.Logging.dll Upkeeper.Server.Data.dll	2022-11-		
Music	Upkeeper.Server.Data.Report	ingService.dll 2022-11- 2022-11-		
 Pictures Videos 	web.config	2022-11-	29 13:19 CONFIG File	
System (C:)	logging.json	2022-11-	29 13:48 JSON File	3 KB
Network	Upkeeper.Server.WebApi.dep	-		162 KB 1 KB
102 items 1 item selected 566 bytes				

Database and Mail settings

Web.config file is main configuration file for API but upKeeper specific settings has been moved to appsettings.config and logging.config. Default mail host and database settings is specified in this config file.

- Host = replace [Mail server] with address of your SMTP server.
- Port = replace [Mail server port] with network port number used by your SMTP server.

Database settings

Database connection settings is configured in appsettings.json file under connection strings.

```
"ConnectionStrings": {
    "UpkeeperDb": "Data Source=[DATABASE_SERVER];Initial Catalog=[DATABASE];User
ID=[DATABASE_USER];Password=[DATABASE_PASSWORD];Integrated
Security=False;MultipleActiveResultSets=True;",
    "WSUSBaseUrlApi": ""
}
```

Note! The text in the above example has extra line breaks that are not allowed in the configuration file. Backslash is a reserved character and must be replaced with double backslash.



- **Data Source** = the address of your database server.
- Initial Catalog = database name
- User ID = the name of the database user that owns the upKeeper database. Replace [USERNAME] with sql user.
- **Password** = the password for the above user. Replace [PASSWORD] with password for the sql user.
- Integrated Security = true mean that user browsing the website will be used to connect to the upkeeper database. If specified User ID should be used you need to set this property to false.

Database settings for logging

Logging is set in the file logging.json. Locate the following tags:

```
"UpkeeperDb": {
"type": "Database",
```

Edit the connection string properties so that they have the same values as the connection string in the previous section.

```
"connectionString": "Data Source=[DATABASE_SERVER];Initial Catalog=[DATABASE];User
ID=[DATABASE_USER];Password=[DATABASE_PASSWORD];Integrated
Security=False;MultipleActiveResultSets=True;",
```

Level of logging is changed under the rules section. Approved values are ERROR, WARN, INFO and DEBUG. In production we recommend WARN, but for test or troubleshoot you should use higher level of logging like INFO or DEBUG. Details can be found inside the file.

Reporting Services settings

Report settings is set in the **appsettings.json** file. Edit these if you are to use upKeeper reporting.

Locate the tag ReportingServiceClientOptions:

```
"ReportingServiceClientOptions": {
    "BaseUrl": "https://[REPORTSERVER_URL]/",
    "Username": "[USERNAME]",
    "Password": "[PASSWORD]",
    "Domain": "[DOMAIN]",
    "LinkToReportingServer": false
}
```

- BaseURL = the address of your SQL Server Reporting Services installation (you will find the name if you open the SQL Reporting Services Configuration Manager, Web Portal URL)
- Username = the username of an account that has the right to run reports
- **Password** = the password for the account above
- **Domain** = domain for user account specified.
- LinkToReportingServer = Specify if report server should be used directly and not thru upKeeper Manager.

WSUS settings



Locate the tag **ConnectionStrings**.

```
"WSUSBaseUrlApi": "[WSUS SERVER]:[WSUS SERVER PORT]"
```

• WSUSBaseUrlApi = address where upKeeper WSUS service is installed and which port is used. WSUS uses port 9001 as default.

CORS

To allow web to connect with the API you must allow that address.

```
"Cors": [
   "http://localhost",
   "https://localhost",
   "https://[UPKEEPER_ADMIN_WEB_URL]"
```

Cors = URL address to your admin web. Multiple address can be specified separated with comma (,).

Two factor authentication

Locate tag UpkeeperSettings and edit if you want to use two factor authentication. Note! Before activating you should specify service users by enabling that parameter in the users view.

```
"UpkeeperSettings": {
    "ComputerLogFileFolder": "C:\\tmp\filelogs",
    "UseTFA": true,
    "AllowEmailTFA": false,
    "TFAMailFrom": "noreply@yourcompany.se",
    "TFAMailSubject": "upKeeper Manager PIN code",
    "SMTP_Username": "[Username]",
    "SMTP_Password": "[Password]"
```

- ComputerLogFileFolder = Folder where files sent from client thru logging function will be saved.
- UseTFA = Set to true to enable two factor authentication.
- AllowEmailTFA = Set to true if users should be able to verify login with email.
- TFAMailFrom = Address used when sending authentication emails.
- TFAMailSubject = Subject of email sent for two factor authentication.
- SMTP_Username = Username of user with access to configured SMTP address (Address is configured in web.config).
- SMTP_Password = Password for SMTP username.

Other Settings

- InstallationId = Value to identify a specific API if you have multiple.
- RefreshTokenExpiryInDays = Default is 7 days. This value defines the expire time of the access token to the API. When expiring a refresh token will be used to get a new one.
- MinPasswordLength = Default is 5 characters. This value defines the minimum number of characters a password can include.
- PublicKey.Modulus and PublicKey.Exponent = Used to read central encrypted information. Values should not be changed.

Settings not documented are settings that should not be changed unless advised by upKeeper personnel.



Configuring - upKeeper Administration Web

Edit the configuration file

Perform the following changes in the file **config.json**,

located in the **Destination Folder** (C:\Program Files\upKeeper\Web) specified during the installation.

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Pin to Quick Copy Paste Copy path			Open Select all Edit Select none Invert selection
← → · ↑ → This PC → System (C:)	→ Program Files → upKeeper → Web	ڻ ~	Search Web
	^		
	Name		rpe Size
Fictures *	css		le folder
	images js		le folder le folder
SQL Server Management Studio	libs		le folder
Temp	views		le folder
upKeeper	config.json		ON File 1 KB
💻 This PC	index.html	2022-11-29 13:14 H	TML Document 22 KB
🧊 3D Objects	🌋 sw.js	2022-11-29 13:14 Ja	vaScript File 4 KB
E. Desktop	web.config.local	2022-11-29 13:14 LC	DCAL File 1 KB
Documents			
🖶 Downloads			
b Music			
Pictures			
📑 Videos			
🏪 System (C:)			
9 items 1 item selected 411 bytes			8==
C:\Program Files\upKeeper\Web\config.json - Notep	ad++ [Administrator]		- 🗆 X
<u>File Edit Search View Encoding Language Sett</u>			>
	n 🍇 🔍 🔍 🖪 🖼 💷 1 🏋 🖉 🛙	📱 🖺 🍋 💌 💽 🔳 🕨	▶ ■ 1 = = = × × ×
☐ config json ⊠			
<pre>2 "baseUrl": "https://URL un 3 "apiUrl": "https://URL un 4 "version": "5.0.0", 5 "clientId": "ngAuthApp", 6 "useCache": "true", 7 "removableApplications": fa 8 "removableWithoutAction": 1 9 "minPasswordLength": 5, 10 "showLogEventsFromDaysBack" 11 "refreshListInterval": 10, 12 "refreshOrganizationStatus] 13 }</pre>	Keeper_Admin_API1/api/", alse, true, ': 30,		
JSON file length : 411 lin	es:13 Ln:1 Col:1 Pos:1	Windov	vs (CR LF) UTF-8 INS

{

```
"baseUrl": "https://[URL_upKeeper_Admin_API]/",
"apiUrl": "https://[URL_upKeeper_Admin_API]/api/",
"version": "5.0.0",
"clientId": "ngAuthApp",
```



```
"useCache": "true",
"removableApplications": false,
"removableWithoutAction": false,
"minPasswordLength": 5,
"showLogEventsFromDaysBack": 30,
"refreshListInterval": 10,
"refreshOrganizationStatusInterval": 60
```

}

- **baseURL** = the address of upKeeper API from a client perspective. The address for the API must be available in DNS for administrators accessing the upkeeper web.
- apiUrl = same base address as baseUrl with the addition of "api/".
- **version** = current version of the web. The version number should manually be updated when upgrading to a new version of the web.
- **clientId** = tells the API what kind of client accessing. Different clientids can have different refreashtoken timeouts.
- **useCache** = set to false will force web to get new information for every request. Default is true and should only be changed if cache problems is detected.
- **removableApplications** = set to true will give administration the possibility to delete applications even when they are installed on computers (default is false).
- removableWithoutAction = set to true will give administrators the possibility to remove applications from computers and groups without uninstalling applications on computers (default is false).
- **minPasswordLength** = number of characters that need to be entered for a new password. Passwordlength is also check by web API.
- **showLogEventsFromDaysBack** = Specify how old events (in days) that should be shown.
- **refreshListInterval =** interval in seconds for different lists to refresh.
- **refreshOrganizationStatusInterval** = interval in seconds to check organization pause status. If missing default value is 60 seconds.

Optional configuration settings

There are some optional settings that can change de behaviour of the web and they are not included by default. Optional flags can be included without any specific order.

- reportUrlOverride URL point to external reporting web will override default reporting behaviour. OrganizationId and UserId of current organisation and user will be added to specified address.
- reportOrgIdKeyOverride Key will replace the Id of current organization. Mostly used for testing purpose.



Configuring - upKeeper Client API

Edit the configuration file

Perform the following changes in the file appsettings.config,

located in the **Destination Folder** (C:\Program Files\upKeeper\Client) specified during the installation.

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Clipboard	Organize	New		Ope	n	9	Select	
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	System.Web.Http.dll		2022-11-29	13:21 A	pplication	extens	446 KB	1
Install	System.Windows.Extensions	s.dll	2022-11-29	13:21 A	pplication	extens	26 KB	1
SQL Server Management Studio	Upkeeper.ClientApi.dll		2022-11-29	13:21 A	pplication	extens	43 KB	6
	Upkeeper.ClientApi.Services	.dll	2022-11-29	13:21 A	pplication	extens	57 KB	6
upKeeper	Upkeeper.Common.DataCo	ntract.dll	2022-11-29	13:21 A	pplication	extens	99 KB	6
💶 This PC	Upkeeper.Common.dll		2022-11-29	13:21 A	pplication	extens	75 KB	1
	Upkeeper.Common.Domain	nObjects.dll	2022-11-29	13:21 A	pplication	extens	92 KB	1
3D Objects	Upkeeper.Logging.dll		2022-11-29		pplication		7 KB	
Desktop	Upkeeper.Server.Data.dll		2022-11-29		pplication		699 KB	
🔮 Documents	Upkeeper.Server.Services.dll		2022-11-29		pplication		162 KB	
🖶 Downloads	web.config		2022-11-29		ONFIG File		1 KB	
Music	appsettings.Development.js	on	2022-11-29		SON File		1 KB	_
Pictures	appsettings.json		2022-11-29		SON File		1 KB	
Videos	logging.json		2022-11-29		SON File		2 KB	
	Upkeeper.ClientApi.deps.jso		2022-11-29		SON File		145 KB	
🛀 System (C:) 🗸	Upkeeper.ClientApi.runtime	config.json	2022-11-29	13:21 JS	SON File		1 KB	£

Database settings

Locate the tag "ConnectionStrings".

```
"ConnectionStrings": {
    "UpkeeperDb": "Data Source=[DATABASE_SERVER];Initial Catalog=[DATABASE];User
ID=[DATABASE_USER];Password=[DATABASE_PASSWORD];Integrated
Security=False;MultipleActiveResultSets=True;",
    "WSUSBaseUrlApi": ""
```

}

Note! The text in the above example has extra line breaks that are not allowed in the configuration file. Backslash is a reserved character and must be replaced with double backslash.

- **Data Source** = the address of your database server.
- Initial Catalog = database name
- **User ID** = the name of the database user that owns the upKeeper database. Replace [USERNAME] with sql user.
- **Password** = the password for the above user. Replace [PASSWORD] with password for the sql user.
- Integrated Security = true mean that user browsing the website will be used to connect to the upkeeper database. If specified User ID should be used, you need to set this property to false.

Logging



Low level logging can be enabled but is <u>not</u> recommended in a production environment. Changes can be made in logging config file named "**logging.json**"

Logging level can be changed to get more or less information. Approved log levels ERROR, WARN, INFO and DEBUG. We recommend log level WARN in production, but INFO or DEBUG can be used in test or troubleshoot situations. Details can be found inside the file.

upKeeper specific settings

Specific upKeeper settings can be changed and set in the file "appsettings.json"

```
"AllowedHosts": "*",
"UpkeeperSettings": {
    "ConnectingClientsIsOnPremises": false,
    "ApplicationCheckInterval": 2,
    "MaxConcurrentClientChanges": 100,
    "UseHeaderAuthorization": false,
    "WebApiEndpoint": "[ADDRESS_TO_ADMIN_API]",
    "WebApiAccessToken": "[ACESSTOKEN_TO_ADMIN_API]"
    "InstallationId": "3a33bd45-ce0b-4644-896b-ad1350ace008"
}
```

Specification for settings

- AllowedHosts = Used to filter access. Default is (*) all clients allowed.
- **ConnectingClientIsOnPremise** = Default value is false. If set to true, all clients connecting thru this ClientApi will be registered as on premise.
- **ApplicationCheckInterval** = Default value is 2. If lower data will be updated more frequently by will also load the database server harder. Higher value will make changes to clients less frequently but lower the load on the database server.
- MaxConcurrentClientChanges = Default value is 0 = no limits. This will limit the number of concurrent changes to specified number of clients. If limit is reached each new client connection will be refused. When changes are done concurrent number of clients will lower and new clients can connect. This feature lowers load on network and file shares.
- UseHeaderAuthorization = Default value is false. If set to true API will require client to connect with correct request header information. This feature requires client version 4.7 or higher.
- WebApiEndpoint = Set address to Admin API. Used for Log File function.
- WebApiAccessToken = Set access token from a user with Log File permissions.
- InstallationId = Default value is a Guid value. Value is used to identify each instance of a client API installation. This value must be changed in environment with multiple client API instances/installations.



Test – upKeeper API

Open a browser and write the address <u>http://api.upklab.local/swagger/index.html</u>. If an error is received, look in the troubleshooting section

٠	api.upkleb.local/	x +	~ -	o ×	:
~	\rightarrow G	O A spiupkab.local	☆		



Test – upKeeper Administration Web

Open a browser and write <u>http://admin.upklab.local</u>. Result should look like this

• •	dmnuplabled=4/mme x +	~ -	٥	×
$\leftarrow \ \rightarrow$	C O & # adminupkablopal#/rojn C	2	9	=



Troubleshooting

No common problems for API or web registered.



Installation – upKeeper Application Server

The upKeeper Application Server handles the communication with the legacy clients (managed computers).

Sign in with administrative rights to the server that will be used for the upKeeper Application Server. Execute the file **upKeeper Application Server 5.X.X.X.msi**





S	oecif	v the	Destination	Folder	for the	installation	and	click Next
~	0000	,			101 0110	motamation		011011110/0

🔀 upKeeper Application Server Setup	_		×				
Select Installation Folder This is the folder where upKeeper Application Server will be installed.		X	5				
To install in this folder, click "Next". To install to a different folder, ent "Browse".	ter it bel	ow or clid	k				
Eolder: C:\Program Files\upKeeper\upKeeper ApplicationServer 5\ Browse							
Advanced Installer							
< <u>B</u> ack <u>N</u> ext >	>	Cano	el				

Fill out the form with information from database installation. Database server can be a network name or an ip address.

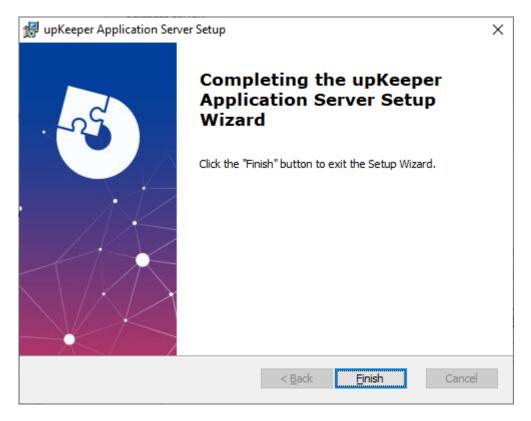
🖟 upKeeper Application Server Setup	×
Database Configuration Enter database connection details	
Database server:	
, Database name: upkeeper	
User: Password: upkeeper_appuser	•••••
Advanced Installer	< <u>B</u> ack <u>N</u> ext > Cancel



Click finish to perform the installation.

🐙 upKeeper Application Server Setup	×						
Ready to Install The Setup Wizard is ready to begin the upKeeper Application Server installation	5						
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.							
Advanced Installer	el						

Click Finish.





Edit the Application Server configuration file

Make the following changes to the file **appsettings.json**, located in the **Destination Folder** specified during the installation.

```
{
  "AllowedHosts": "*",
  "ConnectionStrings": {
    "UpkeeperDb": " Data Source=[DATABASE_SERVER];Initial Catalog=[DATABASE];User
ID=[DATABASE_USER];Password=[DATABASE_PASSWORD];Integrated
Security=False;MultipleActiveResultSets=True;
  "IsMaster": true,
    "MasterSettings": {
      "WSUSBaseUrlApi": "http://192.168.90.19:9001",
      "WSUSNumberOfDownloadRetries": 12,
      "WSUSDelayOnRetry": 4000,
"UpdateWorkDir": "C:\\updatework",
      "WarrantyApiEndPointDell": "https://apigtwb2c.us.dell.com/PROD/sbil/eapi/v5/asset-entitlements",
      "WarrantyApiTokenEndPointDell": "https://apigtwb2c.us.dell.com/auth/oauth/v2/token",
      "WarrantyApiManufacturerNamesDell": [
         "Dell"
        "Dell EMC",
"Dell Inc."
      ],
      "WarrantyApiEndPointFujitsu": "https://aftersales.ts.fujitsu.com/wswcm/wsWCM.asmx",
      "WarrantyApiManufacturerNamesFujitsu": [
        "Fujitsu"
        "Fujitsu Siemens"
      ],
"WarrantyApiEndPointLenovo": "https://supportapi.lenovo.com/v2.5/warranty",
      "WarrantyApiManufacturerNamesLenovo": [
         "Lenovo",
         "IBM"
      ],
"WarrantyApiRegexpLenovo": "^\\d{1,2}[a-zA-Z]{1}$"
    },
"SyncAD": true,
'-duandle
    "ThreadedHandlers": true,
    "MasterService": "net.tcp://localhost:8889/Server",
    "ExternalPort": 80,
    "DistributionArea": "D:\\UpKeeperShare",
    "StagingArea": "D:\\upKeeperStage",
"WSBPlatforms": [
      "Windows.Desktop"
    ],
"ApplicationCheckInterval": 2,
[Clion+Changes":
    "MaxConcurrentClientChanges": 100,
    "LicenseService": "http://license1.upkeeper.se/WebServices/Customers.svc",
    "SaveLogMonths": 6,
    "SaveComputerCountMonths": 5,
"SaveInventoriesPerComputer": 10,
    "RemoveDeletedObjects": true,
    "GetWSUSUpdatesFromUTC": "2022-02-23 00:18:01",
    "AutopilotFactoryResetKeepEnrollmentData": false,
    "AutopilotFactoryResetKeepUserData": false
 }
```

- }
- **UpkeeperDb** = connection settings for upKeeper database. Replace values with brackets according to your environment.
- IsMaster = should normally be set to true.
 If there are multiple Application Servers in the installation only one can be master, the others should be set to false.



- **WSUSBaseUrlApi** = address to the WSUS server where the upKeeper WSUS service is installed. Port is set to 9001 and cannot be changed.
- WSUSNumberOfDownloadRetries = max number of retries for a download
- WSUSDelayOnRetry = time between retries
- **UpdateWorkDir =** path where files to updates are downloaded and built into packages.
- **WarrantyApiEndPoint<manufacturer>** = Endpoint URLs to the manufacturer's warranty lookup services.
- WarrantyApiTokenEndPoint<manufacturer> = Endpoint URL to get manufacturer token.
- WarrantyApiManufacturerNames<manufacturer> = Manufacturer names to match a specific warranty service endpoint.
- WarrantyApiRegexp<manufacturer> = Custom filter expression to get correct warranty.
- **SyncAd** = Specifies that this application server should synchronize with active directory. This setting requires the application server to be configured as master.
- **ThreadedHandlers** = Specifies application server activities to be executed in separated threads and thereby not interfering with each other.
- MasterService = the address of the master Application Server
- **ExternalPort** = the port used for communication with clients outside the LAN.
- **DistributionArea** = the path to the folder where the application packages generated by the Application Server are copied.
- **StagingArea** = path to folder where packages original files are located.
- **WSBPlatforms** = Configure which paltforms should be downloaded from Windows Store for Business.
- ApplicationCheckInterval = Specifies the interval between requests that the clients get commands for application changes. If the clients are assigned multiple applications to install the pause between the installations will be shorter. This setting should only be altered if the Application Server is experiencing performance problems. The lowest allowed value is 1 and default value if not set is 8.
- MaxConcurrentClientChanges = Specified the number of concurrent client that can get application change instructions. Default there is no limit of concurrent clients that get application change instructions.
- LicenseService = the address of the upKeeper license server, should not be changed.
- **SaveLogMonths** = Specifies the number of months the upkeeper eventlog events will be saved before they are deleted. Default value if not set is 36.
- **SaveComputerCountMonths** = Specifies the number of months the number of active computers will be saved in the local database. Default value if not set is 12.
- **SaveInventoriesPerComputer** = Specifies the number of inventories per computer that will be saved. Default value if not set is 10.
- **RemoveDeletedObjects** = Should objects marked for deletion be removed.
- **GetWSUSUpdatesFromUTC** = Time for last synchronisation with WSUS server.
- **AutopilotFactoryResetKeepEnrollmentData** = Controls whether or not the computer will remain enrolled in Intune after an Autopilot factory reset.
- AutopilotFactoryResetKeepUserData = Controls whether or not the user data will be preserved after an Autopilot factory reset.



NOTE! The upKeeper Application Server must be restarted after you have made changes to the configuration file:



Logging settings

Log path and level can be changed in logging.json file.

Multiple log settings can be specified for different purpose.

Log level is set in <level>. Approved values are ERROR, WARN, INFO and DEBUG. WARN is recommended for production environment, but INFO or DEBUG can be used in test- or troubleshot scenarios.

Optional service configuration for the upKeeper Application Server

If the upKeeper Application Server is installed on another server than the file share, then the **upKeeper Application Server 5.X** service must run as a user account that has got the correct permissions in the domain.



Installation – upKeeper WSUS service

The upKeeper WSUS service is the interface between Microsoft WSUS and upKeeper. The upKeeper WSUS service must be installed on the WSUS server.

- Sign in with administrative rights to the WSUS server where you want the upKeeper WSUS service to be installed.
- Create folder **upKeeper** in the **Program Files** folder on system drive.
- Create folder **WSUS** in **upKeeper** folder
- Extract files from the zip file **upKeeper WSUS Service.zip** into folder **WSUS** created in the previous step.
- Double click on the file **install.bat** to register the service.
- Start Services Manager on the server and verify that upKeeper WSUS service is installed and running.
- Verify or change firewall settings on server to allow inbound traffic on port 9001.

Configure upKeeper WSUS

To start getting updates information in to upKeeper Manager you need to configure the master application server to access upKeeper WSUS service.

- Sign in with administrative rights to the server hosting the master application server.
- Open the application server configuration file appsettings.json for editing.
- Verify that WSUS configuration exists in the configuration file.
- Uncomment WSUS configuration if necessary.
- Edit configuration to specification found above (applications server configuration).
- Save and restart application server service.

Note! First synchronization can take very long, up to 48 hours and starts between 1 and 3 am.

Troubleshot WSUS integration

On the server where upKeeper WSUS service is installed:

- Verify that upKeeper WSUS service is running.
- Run command netstate -a and verify that port 9001 is listening.

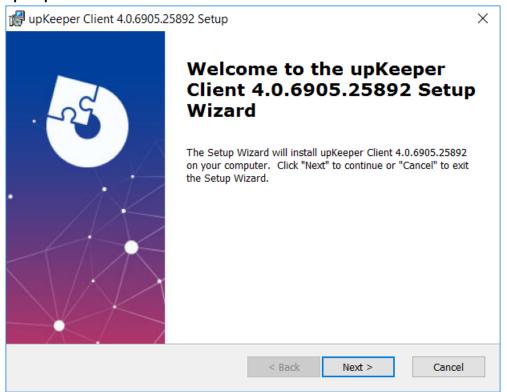
On the server running the upKeeper application service:

- Check log for SyncronizeWSUSAsync(): Start
- Check that there are no fail entries related to WSUS.



Installation – upKeeper Client

Sign in with administrative rights to the client that will use upKeeper Client. Execute the file **upKeeper.Client.5.x-x64.msi**.



Specify the **Destination Folder** for the installation.

🕼 upKeeper Client 4.0.6905.25892 Setup —		×
Select Installation Folder		
This is the folder where upKeeper Client 4.0.6905.25892 will be installed.	X	
To install in this folder, click "Next". To install to a different folder, enter it below o "Browse".	or click	
<u>F</u> older:		
C:\Program Files\upKeeper\upKeeper Client 4\	Br <u>o</u> wse	
Advanced Installer		
< <u>B</u> ack <u>N</u> ext >	Cance	el



Enter **Organization Id** of the organization where the computer should belong. This is optional if your organization allow self-registration. Self-registration is not recommended in environments with multiple organizations.

🕼 upKeeper Client 4.0.6905.25892 Setup	×
Enter endpoint URL	No.
Endpoint that upKeeper Client 4.0.6905.25892 will use.	
The organization id for the client, a guid in the format: 11111111-2222-3333-4444-5555555555555	
1111111-2222-3333-4444-333333333333333	
Organization Id:	
11112222-3333-4444-5555-666677778888	
Advanced Installer	
< <u>B</u> ack <u>N</u> ext >	Cancel

Enter the endpoints at least **Endpoint1.** This setting is optional and can be set with registry inputs. Computer will start communicating as soon as endpoints are added, and service started.

🖟 upKeeper Client 4.0.6905.25892 Setup	×
Enter endpoint URL Endpoint that upKeeper Client 4.0.6905.25892 will use.	1
The endpoint URLs. An example: https://server/	
<u>E</u> ndpoint1: http://upkeeperclientapi/	
Advanced Installer < <u>B</u> ack <u>N</u> ext >	Cancel



Specify if shortcuts should be created on desktop and/or start menu.

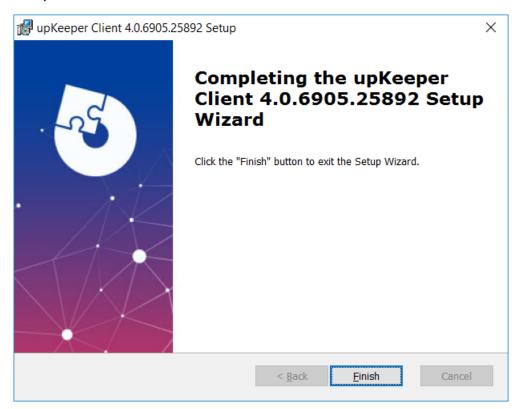
🕼 upKeeper Client 4.0.6905.25892 Setup	×
Configure Shortcuts	
Create application shortcuts	
Create shortcuts for upKeeper Client 4.0.6905.25892 in the following locations:	
✓ Desktop	
Start Menu Programs folder	
Advanced Installer	
< <u>B</u> ack <u>N</u> ext >	Cancel

Click Install to perform installation.

🕼 upKeeper Client 4.0.6905.25892 Setup 🛛 🕹							
Ready to Install The Setup Wizard is ready to begin the upKeeper Client 4.0.6905.25892 installation							
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.							
Advanced Installer < <u>B</u> ack <u>Install</u> Cancel							



Verify that installation is successful and click Finish.





Installation – upKeeper Client (silent)

Client can be installed silent setting all properties thru parameters.

upKeeper Client install parameters

- INSTALLDIR Specify destination folder
- ENDPOINT1- Specify endpoint address used (ex ENDPOINT1=http://upkeeperclientapi/).
- ENDPOINT2- Specify endpoint address used (ex ENDPOINT2=http://upkeeperclientapi2/).
- **ORGANIZATIONID** Specify which organization the client will self-register to. Only necessary if no computer object in upkeeper match the client's properties.
- **MYUPKEEPERDESKTOPSHORTCUT** Create shortcut to My upKeeper on desktop.
- **MYUPKEEPERSTARTMENUSHORTCUT** Create shortcut My upKeeper in start menu.
- **NOSTART** Client service will not start during installation.

Configuring – upKeeper Client

By default, all necessary client configuration is done during installation. Settings specified below are used in special occasions or when recommended by support personal. upKeeper Client connection interval is configured on the server side (minimum interval 10 seconds).

Note! Keys specified below must be entered in the following registry path:

HKLM\Software\upKeeper\Client

- **CleanUp** Force client to clear application download area on client computer. Key is deleted after it has been used.
- **ResetComputerApplications** Sets all applications assign to the computer to be installed. Key is deleted after it has been used.
- **IgnoreEnvironment** Client will not check computer environment before installing or uninstalling applications. If upkeeper does not check the environment before making application changes the computer may pending for reboot, perform application or system changes which can result in conflicts or errors.
- InventoryStartupTask upKeeper client perform a inventory on next startup. Key is removed when used.

Note! Key specified below must be entered in the following registry path: *HKLM\Software\upKeeper\Client\Settings*

- **MailTo** A support button will be visible in the My upKeeper if this registry key exists and an email address is entered.
- **TakeSupportScreenshot** If this registry key is entered and the value set to True/true, attach a screenshot of all screens in mail to support.
- **Popup** If this registry key is entered and the value is set to disable, status popups will not be shown.
- **MyupKeeper** If this registry key is entered and the value is set to disable, my upKeeper will not be accessable.
- **ColorScheme** Changes the way alert messages form is colored. (0 = black/yellow, 1 = red/grey and 2 = flashing red/grey)
- **ApplicationTab** If set to string value "disable" the application tab in My upKeeper will not be accessible.
- **OperatingSystemTab** If set to string value "disable" the operating system tab in My upKeeper will not be accessible.



- UserTab If set to string value "disable" the user tab in My upKeeper will not be accessible.
- **MeteringEnabled** If set to true the client will report computer and application usage.
- **MeteringDirectories** If other directories then program directories should be scanned for applications, set this value to directories of your choice, separated by semicolon (;).
- MeasureFiles If specific files should be scanned, enter file names separated by colon (,).
- **Button1Text** If text is entered a button with this text will be visible in My upKeeper.
- Button1Command If text is entered it will be used as command if button with text from Button1Text is pressed/clicked.
- **Button2Text** If text is entered a button with this text will be visible in My upKeeper.
- Button2Command If text is entered it will be used as command if button with text from Button2Text is pressed/clicked.
- HandlingAssignedApplications If set to string value "disable" assigned applications cannot be reinstalled.
- **Driveletter** If set to specific letter client won't assign drive letter when mapping SMB network shares. Normally client get first free driveletter starting from Z and goes up to A.
- RequestApplication If set to string value "disable" the button for request applications will be disabled.
- InventoryMissingUpdates If set to string value "disable" no inventory for missing updates will be performed.
- **MaximumMeasuringPoints** By default upKeeper Client is measuring hardware resources every minute which is equivalent to 60 measure points per hour. You can increase or decrease the default value if need or recommended by upKeeper consultants. Clients are processing 1/4 of set measure points before reporting.
- **MinimumDiscSpaceRemainingPercent** Defines when low free disc space information is sent. Default this value is set to 10 but can be changed to suite your needs.
- **MinimumMemoryRemainingPercent** Defines when low remining memory information is sent. Default this value is set to 10 but can be changed to suite your needs.
- **MaximumProcessorUsagePercent** Defines when high CPU usage information is sent. Default value is set to 90 but can be changed to suite your needs.

upKeeper Client Commands

upKeeper Client can run as an application to perform different tasks. Application file "upKeeper.Client.Manager.exe" can be found in the program folder were upKeeper Client is installed.

Available commands

Commands are added as parameters to exe-file. Structure: upKeeper.Client.Manager.exe [command]

directTask – Command used to execute functions immediately. Functions available "inventory". Structure: directTask=inventory

Branding – My upKeeper Client

My upKeeper Client can be branded with custom title. To change form title, popup title and menu option you can add the registry string BrandingTitle with the value you wish to be shown. Registry string most be placed under the Settings key. (HKLM\Software\upKeeper\Client\Settings)



upKeeper Client Logger

upKeeper Client Logger is a separate component installed with the upKeeper Manager Client and can be found in the same installation path as the other client components. upKeeper Client Logger is used for custom logging in scripts or commands to send information and files that will be shown in the upKeeper Manager Admin Web. Messages or files sent using this function will be found in corresponding device name under the "Eventlog" tab and files will be found under "Advanced" tab. Usage: upKeeper.Client.Logger.exe [<command>]

Commands available is dependant on version and can be found executing exe file without commands or with parameter -h or –help.



Installation - upKeeper Files Website

The upKeeper Files Website handles distribution of application packages over HTTP. It must be installed if you want to manage clients not located on the LAN.

- Sign in with administrative rights to the server that will be used for the upKeeper Files Website.
- Execute the file upKeeper.Files.5.X.msi
- Specify the **Destination Folder** for the installation.
- Enter values for **Port** and **Host Header**. The **Host Header** redirects requests for that hostname to this website.

📅 upKeeper Files 3.0 Setup		- • ×
Destination Folder		- 1
Click Next to install to the default folder or click C	hange to choose anot	ther.
Install upKeeper Files 3.0 to:		
C: \Program Files \upKeeper \upKeeper Files 3.0 \		
	Back Next	Cancel
📴 upKeeper Files 3.0 Setup		
Web Server Settings Click Next for default settings		·þ.
Port 80 Host Header files.yourdomain.com		
	Back Next	Cancel

Edit the upKeeper Files Website configuration file



Make the following changes to the upKeeper Files Website configuration file: Web.config.

Edit the database connection settings under the tag

<connectionStrings>

The settings should be identical to the settings in the Web.config file used by the upKeeper Administration website.

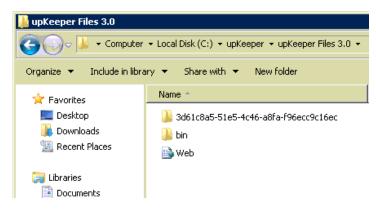
See the section Configuring - upKeeper Administration Website for details.

DNS

A DNS record or alias that points to this website must be created if clients are to connect from outside the LAN.

Application files

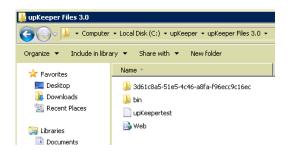
The **upKeeper Files** website will look for application packages (.wim files) to distribute to clients in the folder where it is installed. If possible, website can be installed in the folder where the application packages will be placed. Another option is to synchronize the files with a third-party product.



Test the configuration

You can test the settings by creating a text file in the folder where you installed upKeeper Files 3.X





Then test to surf to your text file, http://sitename/fil.txt.

You will get a login window asking for a username and a password.

Because the website is intended to be used by the upKeeper client, the required credentials are the **Computer Id** and **Organization Id** of a managed client computer.

You will find those in the registry of a installed client: HKLM\SOFTWARE\upKeeper\Client\Settings

ComputerID = login name **OrganizationId** = password

If everything is correctly configured, you will see the content of your text file in the browser.



Build upKeeper SOS

To build or update upKeeper SOS we have to create a build structure including upKeeper SOS files and software from Microsoft.

Install Microsoft software

Download and install "Windows ADK" and "Windows PE add-on for the ADK" on a computer were you want to maintain your upKeeper SOS files.

- 1. Download "Windows ADK" for Windows 10 or later and "Windows PE add-on for the ADK" from Microsoft website.
- 2. Run "adksetup.exe" and choose "Deployment Tools" and "Configure Designer" and install in default location. Other components can be add.



Windows Performance Toolkit

Select the features you want to change

Click a feature name for more information.

Windows Preinstallation Environment (Windows PE)

Windows Preinstallation Environment (Windows PE)

Minimal operating system designed to prepare a comp for installation and servicing of Windows.

Includes:

- Windows PE (x86)
- Windows PE (AMD64)
- Windows PE (ARM)
- Windows PE (ARM64)

Add upKeeper SOS files

Download latest version of upKeeper SOS files and make necessary and optional configuration.

 Download "update_sos.zip" for latest version of upKeeper Manager and extract to "C:\upKeeper\upKeeperSOS" on your computer.



2. Download "upKeeper SOS x.xx" for latest version of upKeeper Manager and extract to "C:\upKeeper\upKeeperSOS\upKeeper" on your computer.

Configure upKeeper SOS

Open C:\upKeeper\upKeeperSOS\upkeeper\Upkeeper.Sos.exe.config in a text editor and edit to match configuration for your upKeeper Manager installation.

Settings

- Id Set to folder name of your upKeeper SOS files on distribution point.
- ShowComputerInformation If true SOS will show detailed computer information.
- Endpoints address/addresses to client API endpoints of your installation. Multiple endpoint addresses are separated by comma (",") without any space.

Optional settings

- Background set to "white" will change background to white and text to black.
- **Passphrase** will connect to organization with specified passphrase if computer is not recognized.
- IngoreSMBFailes set to "True" will force SOS to proceed even if download of files from SMB distribution point failes.

Add drivers to upKeeper SOS

upKeeper SOS needs in some case unique drivers for network and/or disc to be able to run. Download drivers that are built for the version of WinPE you are using. Add drivers to a folder structure that are easy to read and update (see example below).





Update upKeeper SOS

After performed the steps above you are ready to update upKeeper SOS.

- 1. Run "update_sos.cmd" in "Run as administrator" mode and verify that every step are successful.
- 2. Copy folder "upKeeperSOS_w10_amd64" to upKeeper distribution point(s) and add the new "boot.wim" file to all USB drives and WDS server.
- 3. Boot client on USB drive or WDS to verify new SOS.

Known issues

Files that have been download are blocked, start powershell, go to upKeeperSOS\upkeeper and run

"dir | Unblock-File"

Run update upKeeper SOS.

Tips!

You can use WDSUTIL (See example command below) to add or update upKeeper SOS to WDS, remember to change path to image file.

WDSUTIL /Replace-Image /Image:"upKeeperSOS" /ImageType:Boot /Architecture:x64 /ReplacementImage /ImageFile:"\\upKeeperDIST\upKeeperSOS_w10_amd64\Sources\boot.wim" /Name:"upKeeperSOS" /Description:"upKeeperSOS"



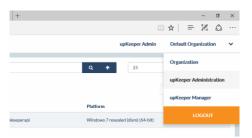
Configuration - upKeeper 5.X

The upKeeper Administration Website <u>http://upkeeperweb/</u> is where the upKeeper installation is managed.

Log on with the administrative user: **upkeeper** password: **upkeeper**.

Configuration – Licence

Select upKeeper Administration



Open the tab License

Enter the name of the company holding the license for the installation under **Company Name** and click **Save.**

≡	UPKEEPER	upKeeper Admin Default Organization 🗸
*	License	
Ł	License	
2+	Companyname	License Key
a Y	Utveckling HS	X00000000044FDA48723744E2049F0H0B05475508ECA58590A40051EEEEEE 9EFERBECTBBANDSOCCECREFACEA72A1497172628872378484CA2829EX65A56A5877 DCCLBA054055F802A4878550CIA92780133EF6F1850500564C5184F14D068593E77E2752 6A9C9D5CF265E84478105F4FBF81C8725C822CBB82E24F75DA873D
٩,		
	Save	

Normally the license key will be updated by the upKeeper Application Server within five minutes

If you have been given a license key, you can enter it in the **LicenseKey** field.

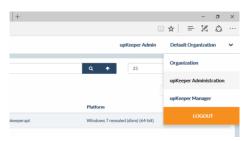


Create a new Organization

An upKeeper installation can be divided in **Organizations**. This can be used to separate users and computers from different companies or departments to simplify management or delegate permissions.

On installation one Organization named **Default Organization** is created, this Organization can be renamed to something more descriptive.

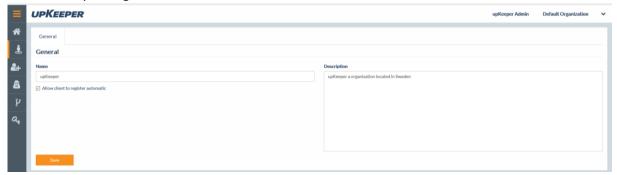
Select upKeeper Administration



Open the tab Organizations and select Create

	EPER		upKeeper Admin	Default Organization	~
*		٩	25		~
L. Crea	Dulete				

Enter a name for the Organization and check the box **Allow clients** ... if you want client computers to automatically be registered.





Create a User

Open the tab Users and select Create.

≡	L	JPKEEPER			upKeeper Admin	Default Organization	•
*	Ī				a 25	~	1
Ł		Create Delete				κ τ 1 2 γ κ	
& +		Name	Full Name	Description			
â		🗆 ЈуМа	Jyrki Manni				

Enter the user name, password and the full name

≡	UPKEEPER			upKeeper Admin	Default Organization	•
*	General					
Ł	General					
2+	Name	ı	Description			
	НаНа		Department administrator			
â	Password					
Y	•••••					
8	Full Name					
a.	Hans Hansson					
	upKeeper Admin					
	Save					

Do not check upKeeper Admin unless you want the user to have access to all Organizations.

Open the tab **Roles** and select **Add**

≡	UPKEEPER		upKeeper Admin	Default Organization	~
*		٩	25		×
_₹ +	Create Delete	Full Name			
a	Administrator	Role members can manage all objects			

There exists only two roles by default, Administrator and HelpDesk,

make sure that the right Organization is selected.

Then select the role you want the user to have and click on **Choose Roles**.

Then close the **Add roles to user** dialog.

adm				Q
Default Or	ganization			\sim
	Name		Description	
	Administrat	or		



Create additional roles

Open the tab **Roles** and click the **Create** button. Enter the name of the role you want to create (think of what the role will be used for e.g., Deploy Computers, Handle Applications, etc.)

≡	UPKEEPER		upKeeper Admin	Default Organization	~
*	1	٩	25		~
Ł	Create Delete				
2+	Name	Full Name			
A	Administrator	Role members can manage all objects			

Open the tab **Permissions** and click the **Add** button

📦 upks	itage.utv.l	local	😚 upkdev.utv.local	🗙 📦 upKeeper Applications Gi 🥥 upKeeper Team Sprint 12 - 🚯 Ledighetskalendern - Kalen 🗖 New tab 🕴 +				. 0	×
\leftarrow	\rightarrow (0 •	okdev. utv.local /#/Administ	tion/Roles/Detail/4fb992e1-47b4-409e-88e8-01ecf478a601		III \$	k = 1	4 0	
≡	UF	PKEE	PER		ирК	eeper Admin	Default Organi	ation	~
*	G	ieneral	Permissions						
Ŀ	Pe	ermissio	ns in role						
& +					٩	25		```	
8		dd Permissi	on Remove						
ษ		1	lame	Description					
8		1	Application_Create_Edit	Allow user to create and edit application properties					

Select the permissions that your role should have and click on **Choose permissions**, then close the **Add permissions to role** dialog.

Us	er	×	۹
	Name	Description	
	User_Create_Edit	Allow user to create and edit user properties	
	User_Delete	Allow user to delete other users	
	User_List	Allow user to list users	
	User_Manage_Devices	Allow user to add and remove devices to user	
	User_View	Allow user to view user properties	



Configuration – Organization settings

If necessary, click the link **upKeeper Manager** in the upper right corner to leave the **upKeeper Administration** area.

Note! The settings in this section are made for each Organization.

Configuration – General

Start by open the **Configuration** tab.

😜 u	okstage.utv.local 😽 up	kdev.utv.local	× 🤫 u	pKeeper Applicati	ons Gi 😋 upKeeper Team Sprint 1	2 - 🗍 🚺 Ledighetskalendern - Kale	n 🛛 🗖 New tab	+			-	σ	×
\leftarrow	ightarrow upkdev.utv.lo	cal/#/Configuration										۵	
≡										upKeeper Adm	in Default Organiza	tion	*
A		BCD	Disk	Remote	Active Directory Groups	Active Directory Users	Usage Metering	Application Requests	WSB	MDM			٦
æ	Applications												
Ģ	Computers												
2													
*													
4													
4	Distribution Points												- 1
¢,													
<u> .111</u>	Reports OS												- 1
ं													
*	Departments												
http://o	uptdevutvJoca/#/Configuration												



The section General will be visible.

≡	UPKEE	PER										upKeeper Admin	Default Organization	~
ñ	General	Emall	BCD	Disk	Remote	Active Directory Groups	Active Directory Users	Usage Metering	Application Requests	WSB	MDM			
&	Client Set	tings												
P	U WSUS													
4	Client Update	Frequency												
	15													
*	Wake On	Lan												
	WOL Broad	lcast												
	WOL Port													
	8900													
4	Applicatio	ns												
	Prioritize S	MB Shares												
	Application St	aging Area												
¢;	D:\Stage						×							
<u></u>	Service O	5												
ं	Service OS													
		_												
	Save													

WSUS = Configuring the clients to communicate with the WSUS server in the final stages of the OS installation.

WOL Broadcast = Wake On Lan requests are made with both Unicast and Broadcast.

WOL Port = the Port for Wake On Lan requests.

Client Update Frequency = The interval in seconds between client computers connection with the server, default 15 sec.

Application Staging Area = The Path where installation files for the applications are saved. (The upKeeper Application Server then repackages the applications as .wim files that are distributed to the clients.)

Configuration – BCD

These settings should not normally be edited.

Configuration – Disk

Service Partition Size = The size of the service partition in megabytes.

Diskpart Install, **Diskpart Reinstall** and **Diskpart Drive Letters** = Determines how the client disk are partitioned and how drive letters are assigned.



Configuration – Remote

😚 upkst	age.utv	local	Û	upkdev.u	tv.local	×	😚 upKeepe	er Applicatio	ons Gi 🤹 upKeeper Team Sprint 12	- Edighetskalendern - Ka	ilen 🗖 New tab	+					-	σ	×
\leftarrow	\rightarrow	Ö	upkdev. ut	v.local/#/	Configuration											□ ☆	= 12	۵	
≡	U	PKE	EPE	R											upKeeper Admin	Defa	ult Organiza	tion	*
*		General	Em	nail	BCD	Disk	c Re	emote	Active Directory Groups	Active Directory Users	Usage Metering	Application Requests	WSB	MDM					
&	R	emote																	
P		ustom VNG																	
•				%\TightV	NC\tynviewe	er.exe" C	OMPUTER	RNAME											
	v	screen mo winposstr full addre keyboard audiomod compressi keyboard audiomod compressi keyboard audiomod compressi keyboard audiomod redirector	de id:1:2 apd:32 s:s0,1,224 as:s:COM ion:1:1 hook:1:2 iei:2 inters:1:0 mports:1: nartcards ipboard:1 asdevices 16992	0 11 13:0 14:0	AME	TeamVie	ewer\Versic	onS\teamvid	ever.exe* -I-CLIENTIDPessword 12	1212									
		Save																	

Custom VNC Command = The command to remotely control clients.

RDP Template = Template for Remote Desktop connections to clients.

The variable **COMPUTERNAME** will be replaced by the computer name and **CLIENTID** will be replaced by TeamViewer Id when the commands are executed.

vPRO URL = Address to access computers with vPro activated. {0} will be replaced with computer name.

TeamViewer Command = Command to start Teamviewer on the administrator PC and used collected and predefined information to connect directly to the client. CLIENTID or COMPUTERNAME will be replaced with proper values when executed. (Exemple: start "teamviewer" "c:\program files (x86)\TeamViewer\Version8\teamviewer.exe" -i CLIENTID --Password XXXXXX)

Configuration – Active Directory Groups

Configure synchronization of groups and computers from AD to upKeeper.

Specify the necessary information under AD Settings and click Save.

When the groups from AD has been read by upKeeper you can select the groups you want to synchronize by clicking **Add**.

Configuration – Active Directory Users

Configure synchronization of Users from AD to upKeeper. Specify the necessary information under **AD Settings** and click **Save**.



General Email BCD Disk Remote Active Directory Groups Active Directory Us AD Settings	UPKEE	PER					
Username utvipsjo Password utvipsjo Domain utvipsjo Root node	General	Email	BCD	Disk	Remote	Active Directory Groups	Active Directory User
utvenjo Password utvenjo Domaln utvenjo Root node	AD Settin	gs					
Password Comain Urtuboal Root node	Username						
Comain triJocal Root node .	utv\pejo						
Domain utv.local Root node -	Password						
utvioal Reot node .	•••••						
Root node .	Domain						
	utv.local						
- Swe	Root node						
Save							
	Save						

Configuration – Distribution Points

Open the tab **Distribution Points** and click on **Create**.

≡	UPKEEPER			upKeeper Admin	Default Organization	~
*	Distribution Point:		٩	25		~
&					Showing 4 of to	ital 4
	Create Delete		 			

Enter Name, Location and Description and check Active, then click Save.

Open the **SMB** tab.

≡	UPKEEPER	upKeeper Admin Default Organization 🗸
*	Distribution Points / UTVAP02 General SMB HTTP	
æ	SMB	
P	Share	Subnets
	\\192.168.90.15\upKeeperShare Username	1.2.3.4 (1.2.3.4) 5.6.7.8 (4.3.2.1)
**	ut/wpkeeperinstall	
	Password	
	Confirm Password	
-	☑ Default	Add Edit Delete
~	Save Dulete	
_		

Enter the address of your file share, specify which account you want to use,

enter the subnets involved and select if it should be the default Distribution Point. Then click **Save**.

Open the **HTTP** tab.

≡	UPKEEPER	upKeeper Admin	Default Organization	~
*	Distribution Points / upkeeperfiles General SMB HTTP			
&	нттр			
	URL			
	http://upkeeperfiles.upkeeper.se			
▲ **	Sove Delete			

This setting is used to deploy applications to computers that are included in the upKeeper database and have a connection with upKeeper over the Internet.

Enter the web address for the site used by upKeeper to distribute applications.

Remember that you have to configure your DNS so that the clients can find it.



Appendix A – Using upKeeper Application Server over HTTPS

When installing applications over the Internet, you can use HTTP or HTTPS. Before HTTPS can be used, additional configuration is necessary.

Create/install a certificate for the server

Register the certificate: > netsh http add sslcert ipport=0.0.0.0:443 certhash=6f69a65d39a5b6a67e7b2c5a65eb2de181f938b8 appid={2bd46527-0d0d-4de0-b2aa-2c4f7d229947} (Replace the string certhash to your certificate's Thumbprint)

Make the following changes in the Applications Server configuration file:

• Add a service behavior (as it appears below):

<behavior name="clientBehavior"> <serviceCredentials> <serviceCertificate findValue="YourIssuerName" x509FindType="FindByIssuerName" /> </serviceCredentials> </behavior>

• Add a binding behavior (as it appears below):

```
<wsHttpBinding>
<binding name="wsHttps">
<security mode="Transport">
<transport clientCredentialType="None" />
<message />
</security>
</binding>
</wsHttpBinding>
```

• Add an attribute on the ClientService (as it appears below):

behaviorConfiguration="clientBehavior"

• Add an attribute on the endpoint elementet for wsHttp (as it appears below):

bindingConfiguration="wsHttps"

Change the endpoint address to https://yourhostname/Client

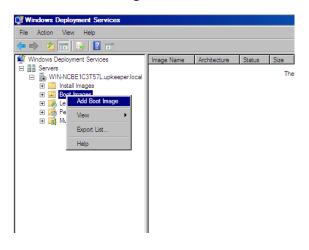
Note! Do not forget to change the endpoint protocol to https for the clients.



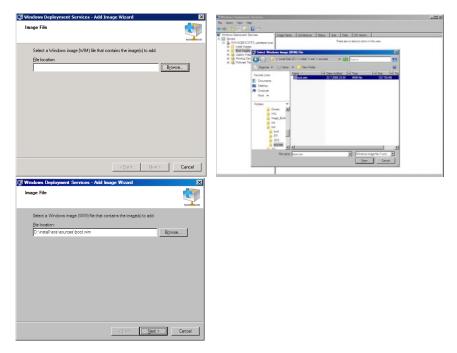
Appendix B - Configuration of Windows Deployment Services

- Sign in with administrative rights to the server that will be used for Windows Deployment Services.
- Start Windows Deployment Services.

Expand the tree on the left side, find the current server and right click on **Boot Images**. Select **Add Boot Image**.



Click **Browse** and browse to the folder where your upKeeper ServiceOS files are located. Select the file **Boot.wim**.



Enter an appropriate description and then import the file into WDS.



age Metadata			Į
Enter a name and description for the f 'up Keeper ServiceOS'	ollowing image:		
Image name:			
upKeeper ServiceOS		_	
Image <u>d</u> escription:			
upKeeper ServiceOS		_	
Image architecture: x35			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Review the follow	wing settings before adding images.
Image group:	Boot Images
Image file:	D:\install\sos\sources\boot.wim
Image(s) <u>s</u> electe	d:
Name	
up Keeper Serv	6 <u>.</u>



Appendix C – upKeeper white label

You are now able to change images and other elements in upKeeper for branding your product. By adding images with file names ending with -custom, these files will be chosen instead of the default images. This is to make sure they are not overwritten when there is an update. Default images may be overwritten. Only the files that are specified in this document support the - custom suffix.

ADMIN WEB:

Admin web images are added to ../images/

The logo shown at login: Default: ../images/logowhite.png Custom: ../images/logowhite-custom.png Recommended size: 169 x 26 px

The background shown at login: Default: ../images/bg.jpg

Custom: ../images/bg-custom.jpg Recommended size: 1920 x 1280 px

The logo shown in the top-bar when logged in: Default: ../images/logo.png Custom: ../images/logo-custom.png Recommended size: 169 x 27 px

The favourite icon shown in the browser field: Default: ../images/favicon.ico Custom: ../images/favicon-custom.ico Recommended size: 16 x 16 px, 24 x 24 px or 32 x 32 px. Make sure to clear your browser cache after switching this logo, or the old one might be shown instead.

MY UPKEEPER:

You can change the My upkeeper text that is shown as the title of the client window, etc. This can be done by running a registry script when installing the client. To change the title, add the key BrandingTitle to HKEY_LOCAL_MACHINE/SOFTWARE/upKeeper/Settings and change its value.

Sos:

You can change the background image in the Sos: Default: ../Sos/Upkeeper.Sos/Upkeeper.Sos.Manager/upkeeper.png Custom: ../Sos/Upkeeper.Sos/Upkeeper.Sos.Manager/upkeeper-custom.png Recommended size: 1500 x 911 px.

Sos (Debug):

Default: ../Sos/Upkeeper.Sos/Upkeeper.Sos.Manager/bin/Debug/upkeeper.png Custom: ../Sos/Upkeeper.Sos/Upkeeper.Sos.Manager/bin/Debug/upkeeper-custom.png Recommended size: 1500 x 911 px.



Appendix D – Azure app registration for OneDrive access from distribution points

To enable OneDrive from distribution points a valid Azure app must be created. Ensure that the following steps are followed to make sure that it works flawlessly.

- 1. Register a new Azure app under Azure portal/Home/App registration
- In the registration interface set the following values:
 2.1. Set a valid, appropriate name for the app, remember that this will be visible for the client when connecting a distribution point to an app.
 2.2. Select the appropriate account types that should be able to access this app.
 2.3. Ignore RedirectUrl for now. We will get configure it later.
- 3. The application registration is done, click Quickstart (in the left pane) to configure it.
- 4. (Optional) Set the appropriate values in branding, it makes it easier for users to trust the submitted app trust request when connecting a distribution point to an OneDrive App.
- 5. Click Authentication in the left pane and adjust:
 5.1. Add a new platform and set the type as "Mobile and desktop application".
 5.2. Select the pre-generated login URL:
 "https://login.microsoftonline.com/common/oauth2/nativeclient"
 5.3.1. Configure the correct redirect URLs depending on the upKeeper admin UI installation. (Make sure to add http://localhost:7000 if this is a development instance)
 5.3.2. HTTPS bindings needs to be used if you want to set up onedrive from another device than the server running admin web UI.
 5.3.2 If HTTPS is not used, a http binding for "localhost" needs to be created and set to port 7000 for example. Then match this in the redirect URLs for the App and configure the distributionpoint from the browser on your server.
 5.4. Setup "Supported account types" according to the appropriate settings.
- 6. Under "Certificates & secrets", create a new secret. These aren't used in Upkeeper at the moment, but they are needed for the integration to work.
- 7. Make a note of the client id GUID.
- 8. Login to the Upkeeper Admin UI and under Organisation settings/Azure/Onedrive enter the GUID from 7. under client id.

There, now you should be able to configure OneDrive connection for distribution points.



Appendix E – Set up Singel Sign-On

upKeeper Manager version 5.2.1 and later supports Single Sign-On (SSO). This document provides instructions on configuring and using SSO within upKeeper Manager. Configuration of external systems required for SSO is outside the scope of this document; refer to each system's documentation for specific setup instructions.

Overview

Once SSO is configured, new users can log in to upKeeper Manager by entering a *Provider Name* as specified in upKeeper Manager. This name indicates which Identity Provider (IdP) should handle the login request. The IdP will authenticate the user and, if access is granted, redirect them back to upKeeper Manager. upKeeper Manager will then allow access to the specified organization with the role of *SSOUser*.

Setup

Setting up SSO requires configuration in both upKeeper Manager and external IdP.

External IdP

Begin by configuring your IdP with a SAML endpoint and granting selected users access to it. Refer to your IdP's documentation for detailed SSO configuration. Make sure to include a callback URL pointing to your upKeeper Manager environment.

upKeeper Manager

Login into upKeeper Manager as a System Administrator (highest level). Select **upKeeper Administration** and then **Authentication Providers**. Click **Create** to add a new provider.

UPKEEPER	upKeeper Admin	AxelOrg		
Authentication providers / MyProvider123	SAML			
SAML				
Provider				
MyProvider123				
Issuer URL				
https://[UPKEEPER_URL]/SAML2				
Endpoint				
https://[EXTERNAL ldP]/saml/authenticate/idp				
Certificate				
${\sf MIIDITCCAnECFAHOE} zszTkvRaM + K91J01 syijwYQMA0GCSqGSIb3DQEBCwUAMIGAMQswCQYDVQQGEwJTRTEZMBcGA1UEwGA1UEWGA1UEWGA1UEWGA1UEwGA1UEwGA1UEWGA1UEWGA1UEWGGA1UEWGA1UEWGU1U$				
Client ld (ngAuthApp)				
ngAuthApp				
Organization				
Default Organization ~				
Save Delete		⑦ нјај		

- **Provider Name** This is the name users will use to log in via SSO to your IdP. Choose a name that is memorable yet secure.
- Issuer The IdP callback URL. Replace [UPKEEPER_URL] with the URL of your upKeeper Manager web instance.
- Endpoint The IdP's URL. Replace [EXTERNAL IdP] with your IdP's address. The full URL may need to be customized.
- **Certificate** The certificate for secure communication with the IdP. Paste the certificate string provided by the IdP when configuring SAML SSO.
- **Client ID** Specify the client ID for login. Recommended client ID is *ngAuthApp*, which is standard client id for web login.



• **Organization** – Specify the organization that users logging in with this SSO configuration will have access to.

SSO user management

After setting up SSO, you can manage users who log in to upKeeper Manager via SSO. upKeeper Manager will automatically create an account for SSO users the first time they log in. These users will be listed under **Users** in the **upKeeper Administration** section. Accessible organizations and roles can be modified per user to suit your needs.



Appendif F - Custom script during Windows Setup

SetupComplete.cmd and ErrorHandler.cmd are custom scripts that run during or after the Windows Setup process. They can be used to install applications or run other tasks. upKeeper Manager have built in functionality to support this feature.

Function

If SetupComplete feature is triggered upKeeper Manager will search for SetupComplete folder, first in the booted SOS folder structure and then on connected SMB share if available. If folder SetupComplete is found, content of the folder is copied to "%WINDIR%\Setup\Scripts\". File SetupComplete.cmd is updated and following texts are replaced.

[ORGANISATIONID] – replaced with id of current organization.

[ENDPOINT] - replaced with the first endpoint address in appSettings.json.

[ENDPOINT1] – replaced with the first endpoint address in appSettings.json.

[ENDPOINT2] – replaced with the second endpoint address in appSettings.json.

Trigger

SetupComplete feature is triggered by adding JSON configuration in settings for a computer device. JSON settings can be added on a single computer device or inherited from group or platform. Final setting can be viewed by clicking settings button on a single computer in upKeeper Manager.

A minimum of two curly brackets ({}) is recommended if no other JSON configuration is needed. JSON configuration can be used for Microsoft Intune configuration.