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## for Microsoft

**Quick Install Manual**  
**OnTime® for Microsoft version 6.3.x**

**Revision 12**

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## OnTime® for Microsoft

This Quick Install guide is the fast track to install OnTime for Microsoft.

Additional information is available in the *OnTime for MS – Installation & Configuration Guide*.

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# About OnTime® for Microsoft

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This 'quick install guide' describes the fewest possible steps to make the OnTime Group Calendar available for web and mobile users.

# Preparing the new OnTime installation

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## Server requirements

The OnTime installation is supported on

- Windows Server 2019/2022/2025 with Microsoft SQL Server® 2019/2022 Express

OnTime must be installed running as a Windows administrator.

For small and middle-size installations of OnTime, You may use Microsoft SQL Server® 2019/2022 Express which is free.

It is recommended using the full Microsoft SQL Server if your OnTime installation has more than 2.000 users.

### Processor

- Intel-compatible processor with a minimum speed of 2 GHz or a faster processor

### RAM

- Minimum of 8 GB Ram dedicated to the OnTime solution
- If you are running OnTime on a Hyper V configuration, then you need to configure it to use static memory for the SQL Server to perform properly.

### Hard Disk Space

- Minimum of 20 GB hard drive dedicated to the OnTime solution

## Typical 500 users install

- Intel-compatible processor with a minimum speed of 2 GHz or a faster processor
- Minimum of 8 GB Ram dedicated to the OnTime solution
- Minimum of 20 GB hard drive dedicated to the OnTime solution

## Ports for the OnTime server

The ports 80 and 9080 are required open for HTTP data.

The ports 443 and 9443 are required open for HTTPS data.

The port 8080 is required for the admin client, http is only supported for localhost.

The port 8443 is required for the admin client, https is supported remotely

## Ports for Microsoft 365

If OnTime configuration for Microsoft 365, check ports outwards through the firewall (port 443) from the OnTime server:

<https://login.microsoftonline.com>

<https://graph.microsoft.com>

<https://portal.azure.com>

## Prerequisites

### AD domain

The OnTime server can be part of your user AD domain to ensure your OnTime users web authentication (SSO) without providing their AD password.

An OnTime server installed in a Windows 'Workgroup' is supported. It is expected the Workgroup server to be dedicated to OnTime because this will be more secure. The name of the workgroup must be descriptive. Workgroup names like 'Workgroup' or 'Workgroup01' will not be accepted.

### SQL 2019/2022 Express or an existing MS SQL Server must be available.

The SQL Server Express may be downloaded from Microsoft. It is free.

**Limitations:** Microsoft SQL Server Express supports 1 physical processor, 1 GB memory, 10 GB storage.

### Create an Impersonation User in MS Exchange/Microsoft 365

- a. Mailbox user (minimum type 1 if in Microsoft 365).
- b. Assign the user to the "ApplicationImpersonation Role".

## License key

- OnTime requires a license key with the required number of users enabled to run.
- These keys are delivered directly by IntraVision or an OnTime Partner.
- A list of OnTime Partners is available at [www.ontimesuite.com](http://www.ontimesuite.com).

For obtaining a license key, provide the following info:

- your Company name
- total number of users, including rooms and equipment
- a. OnTime server in an AD domain,  
check your OnTime server's environment by logging in as a domain user.  
In a Command prompt > set (Enter) – to see your '**USERDOMAIN**' to see your device name

```
SystemDrive=C:
SystemRoot=C:\Windows
TEMP=C:\Users\ADMINI~1\AppData\Local\Temp\2
TMP=C:\Users\ADMINI~1\AppData\Local\Temp\2
USERDOMAIN=BM-OTMS-SERVER
USERDOMAIN_ROAMINGPROFILE=BM-OTMS-SERVER
USERNAME=Administrator
USERPROFILE=C:\Users\Administrator
windir=C:\Windows

C:\Users\Administrator>set
```

In a Command prompt > **dsregcmd /status** (Enter) – to see your domain name

```
C:\Users\Administrator>dsregcmd /status
+-----+
| Device State
+-----+
AzureAdJoined : NO
EnterpriseJoined : NO
DomainJoined : YES
DomainName : ONTIME01
```

- b. OnTime server in a workgroup, check your Workgroup name.

Enter 'net config workstation' in a Command prompt to see your 'Workstation domain' (Workgroup name).

- If you are running a trial installation, a time-limited, fully functional key should have been provided for you when you downloaded the OnTime software from [www.ontimesuite.com](http://www.ontimesuite.com).

# OnTime Installation

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## Quick installation

It is the easy way of installing OnTime with a local, silent installation of the MS SQL Server 2019-2022 at 'C:\Program Files', runs a single command to create the OnTime database, installs the 'OnTimeMSAuth' Windows service for SSO authentication, and installs the Tomcat server for web access.

An MS SQL Server 2019 Express with scripts for a silent install may be downloaded from this download link:

[SQL Server 2019 Express](#)

An MS SQL Server 2022 Express with scripts for a silent install may be downloaded from this download link:

[SQL Server 2022 Express](#)

The tool to inspect the databases in the Microsoft 'SQL Server Management Studio' (SSMS). Currently, a link to download the tool from Microsoft:

<https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms>

**It is the default installation with a local SQL Server, installed at C:\Program Files\Microsoft SQL Server\**

## Installing the SQL Server Express

To install the SQL server, Example:

1. Open Command Prompt in administrator mode
2. Run 'sql\_express\_full\_setup.cmd'
3. Wait for installation to complete

If you see other messages than "Installing SQL Express Server" your Windows server probably needs some updates from Microsoft. Resolve these prerequisites and rerun the command.

It may take 5-10 minutes to execute the installation of SQL Server Express.

Result:

The SQL Server is installed in the path:  
C:\Program Files\Microsoft SQL Server

## Install OnTime

Extract the downloaded OnTime package to a temporary location and then move the folder “OnTimeMS-x.x” to the recommended path:  
 C:\Program Files\IntraVision\

PC > Windows (C:) > Program Files > IntraVision > OnTimeMS-xx >

Name	Date modified	Type	Size
addin-classic-outlook-poll	19/12/2024 10.18	File folder	
addin-new-outlook-teams-rail	19/12/2024 10.18	File folder	
addin-teams-channel	19/12/2024 10.18	File folder	
admintoken	19/12/2024 10.18	File folder	
catering	19/12/2024 10.18	File folder	
cmd	19/12/2024 10.18	File folder	
jdk	19/12/2024 10.18	File folder	
ontime.ms.acs	19/12/2024 10.18	File folder	
ontime.ms.auth	19/12/2024 10.18	File folder	
otdbupdate	19/12/2024 10.18	File folder	
polarity	19/12/2024 10.19	File folder	
programdata	19/12/2024 10.19	File folder	
scripts	19/12/2024 10.19	File folder	
sqlserver	19/12/2024 10.19	File folder	
tomcat	19/12/2024 10.19	File folder	
visitor	19/12/2024 10.19	File folder	
command.cmd	19/12/2024 10.18	Windows Comma...	
install.cmd	19/12/2024 10.18	Windows Comma...	
Office365TomcatRestart.zip	19/12/2024 10.18	Compressed (zipp...	
start-catering.cmd	19/12/2024 10.19	Windows Comma...	
start-polarity.cmd	19/12/2024 10.19	Windows Comma...	
start-visitor.cmd	19/12/2024 10.19	Windows Comma...	
stop-catering.cmd	19/12/2024 10.19	Windows Comma...	
stop-polarity.cmd	19/12/2024 10.19	Windows Comma...	
stop-visitor.cmd	19/12/2024 10.19	Windows Comma...	
uninstall.cmd	19/12/2024 10.19	Windows Comma...	
upgrade.cmd	19/12/2024 10.19	Windows Comma...	

Right-click 'install.cmd' and choose 'Run as Administrator'

This command will do the following things:

1. You are asked to enter a new password for the OnTime admin
2. It will create a database, 'ontimems', for OnTime use in the local SQL Server
3. It will configure the user NT AUTHORITY\USER as a user in the ontimems database with the api\_role
4. It will install a Windows service 'OnTimeMS Auth' that offers Windows domain logon authentication for web users, SSO – Single Sign On
5. It will install the Tomcat web server used for OnTime
6. Create a database for Pollarity
7. **Note:** Pollarity has an optional License.
8. Create a database for Catering
9. **Note:** Catering has an optional License.
10. Create a database for Visitor
11. **Note:** Visitor has an optional License.

# OnTime Configuration

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From a browser - Open the administration URL – for example:

<https://ontime.example.com:8443/ontimegcms/admin>

**Note:** Insert your relevant URL instead of 'ontime.example.com'.

In the initial OnTime setup phase you may run administration without certificates locally at the OnTime server with http and port 8080 for the apache Tomcat.

<http://127.0.0.1:8080/ontimegcms/admin>

Administrator: admin (beware of casing, no capitals)

Password: \*\*\*\*\* (the password from your installation phase)

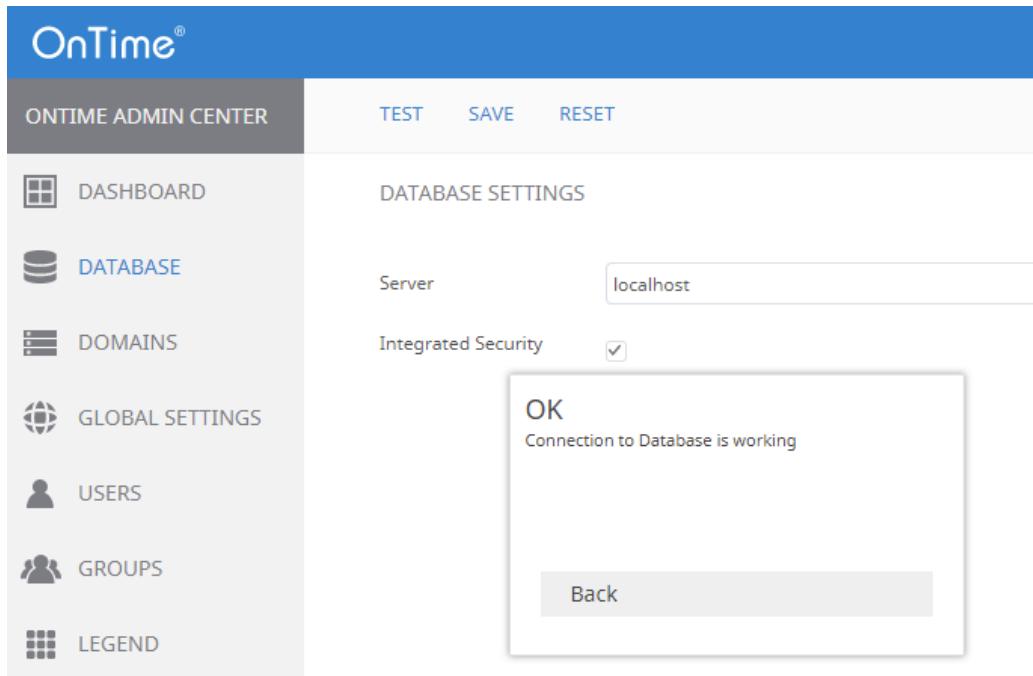
## Database

In the web admin interface, “OnTime Admin Centre”, click “Database”.

Click “Test” in the upper menu line to test the database connection.

Upon the response “OK Connection to Database is working” click “Back”.

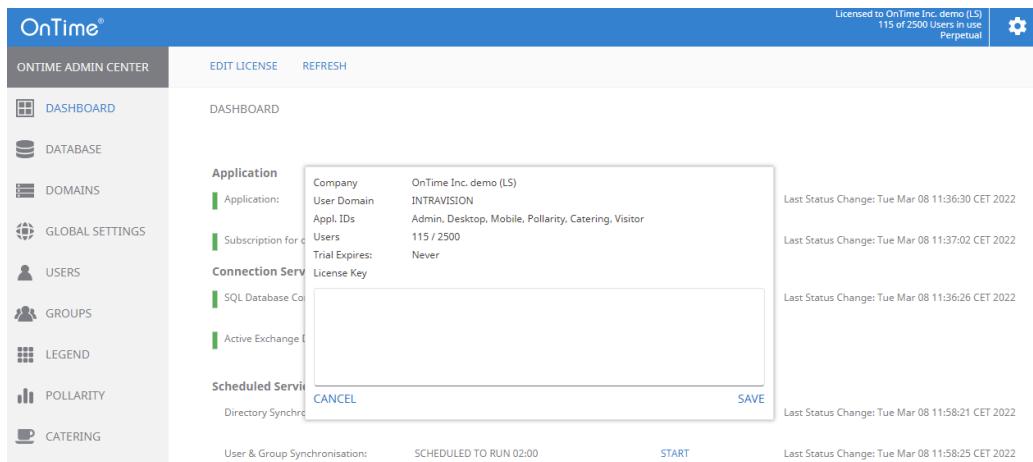
Click Save.



## License key

Click ‘Dashboard’

– Enter your license key by clicking ‘License’ in the upper right corner of the dashboard. Click ‘Save’

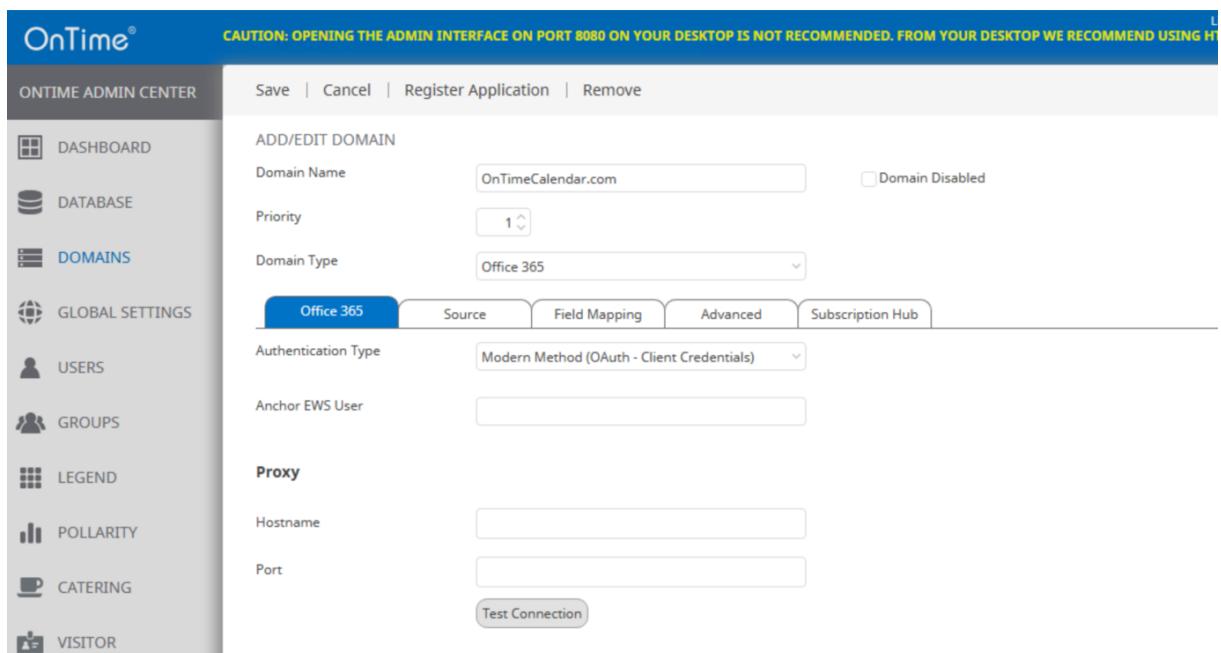


In the Dashboard click 'stop/start' the application.

**Note: When you see the Connection/Database Service “Running” (green), press ‘F5’ to refresh the whole web page from the new database.**

## Domain settings

Click ‘Domains/Create New’ to configure your Exchange environment.



ONTIME ADMIN CENTER

Save | Cancel | Register Application | Remove

ADD/EDIT DOMAIN

Domain Name: OnTimeCalendar.com  Domain Disabled

Priority: 1

Domain Type: Office 365

Office 365  Source  Field Mapping  Advanced  Subscription Hub

Authentication Type: Modern Method (OAuth - Client Credentials)

Anchor EWS User:

Proxy

Hostname:

Port:

DASHBOARD  DATABASE  DOMAINS  GLOBAL SETTINGS  USERS  GROUPS  LEGEND  POLARITY  CATERING  VISITOR

**Domain name** is a text field for naming your domain setup.

**Priority** - is for prioritising the users in OnTime. Priority ‘1’ is the highest priority.

**Domain Type** – 'Microsoft 365'.

### Microsoft 365 configuration, Authentication

**Authentication Type:** Modern Method (OAuth – Client Credentials).

**Anchor EWS User** - is a user required only for technical purposes.

EWS API fails when a user is not provided for a call. And if some calls have an explicit user - such as list of appointments, others don't - such as getting a server timezone list. To have at least some user in the call, so that EWS does not fail we introduced an anchor user, which is simply a valid user and has no special abilities, apart from making EWS API succeed on the user-less calls.

Normally this username is written as an email address (UPN name)

The three values, for Application (client) ID, Directory (tenant) ID, Client Secret Value - are obtained from Microsoft Portal, look below.

Missing parameters in 'Microsoft Entra ID' will be listed.

## Register OnTime in ‘Microsoft Entra ID’

The following permissions are required for OnTime functionality to work with Microsoft Entra ID. The following permissions are required.

Application.Read.All	Allows the app to read all applications and service principals without a signed-in user.
Mail.Send	App-only access, without user context
Calendars.ReadWrite	get Online Meeting event, build Online Meeting event or add to existing event.
Group.Read.All	Allows the app to read group properties and memberships, and read conversations for all groups, without a signed-in user.
GroupMember.Read.All	Allows the app to read memberships and basic group properties for all groups without a signed-in user and allows to read membership Teams Group and members.
MailboxSettings.ReadWrite	Used for automaticRepliesSetting and make it possible to get and update AutoReply for mailboxes.
People.Read.All	Allows the app to read any user's scored list of relevant people, without a signed-in user. The list can include local contacts, contacts from social networking, your organization's directory, and people from recent communications
Place.Read.All	Allows the app to read company places (conference rooms and room lists) for calendar events and other applications, without a signed-in user
User.Read.All	Allows the app to read user profiles without a signed in user.
EWS.AccessAsUser.All	Delegated permissions used for OAuth authentication functionality

- a) Login to <https://portal.azure.com>
- b) Select View 'Manage Microsoft Entra ID'
- c) Click 'App registrations.'
- d) Click 'New registration'.  
Choose 'Accounts in this organizational directory only - Single tenant'.  
Populate 'Redirect URL' (optional), <https://example.com:8443/ontimegcms/code.html>
- f) Select a Platform 'Web'  
Click 'Register'.
- g) On next page (Overview) Copy the values [Application (client) ID] and [Directory (tenant) ID] into a text editor e.g. Notepad.
- h) Click "Add a certificate or secret".
- i) Click '+ New client secret'
- j) Add a description, such as 'OnTime Client Secret'
- k) Choose expiration. Click Add
- l) Copy the value of the secret ID into the text editor.
- m) Click 'Authentication' tab. Tick 'Access Tokens'. Click 'Save'.
- n) Copy the three values from 'Microsoft Entra ID' in the text editor into the page 'OnTime Admin Centre' – 'Domains Add/Edit Domain/Authentication'.
- o) Click 'API permissions' tab. Click 'Add a permission'.
- p) Click 'Microsoft Graph'
- q) Click 'Application permissions'
- r) The following 'API permissions' must be checked, type a few letters in the Search field and tick the ten permissions:  
  
Application.Read.All, EWS.AccessAsUser.All, Calendars.ReadWrite,

MailboxSettings.ReadWrite, Group.Read.All, GroupMember.Read.All, Place.Read.All, User.Read.All, People.Read.All, Mail.Send

You may remove 'User.Read', if already selected.

- s) Click 'Add a permission'.
- t) Click 'Microsoft Graph'
- u) Click 'Delegated permissions'
- v) Search for EWS, tick:  
EWS.AccessAsUser.All
- w) Click 'Add a permission'
- x) Click 'APIs my organization uses'
- y) In the field for search, enter 'Office'
- z) Click 'Microsoft 365 Exchange Online'
- aa) Click 'Application permissions'
- bb) Tick 'full-access\_as\_app'
- cc) Click 'Add permissions'
- dd) Click "Grant admin consent for \*Your Company\*".  
Click 'Yes' to answer the question 'Do you want to grant consent ...'
- ee) If it is a configuration update of 'Microsoft Entra ID' for your OnTime server – remember to stop/start the OnTime application.

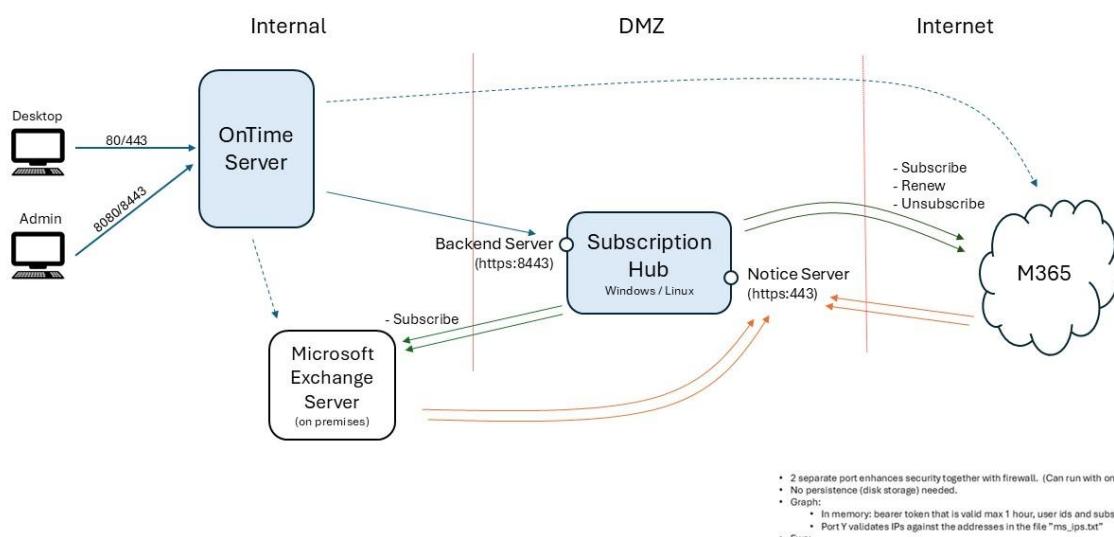
## Introducing the OnTime Subscription Hub

For many years, the notification mechanism in OnTime for Microsoft has relied on **streaming subscriptions**, a technology that in turn depends on **Exchange Web Services (EWS)**. However, Microsoft has officially announced the deprecation of EWS in Microsoft 365, and with it the end of streaming subscriptions. This change is currently scheduled to take effect on **October 1, 2026**.

Once EWS is removed, the existing subscription-based notifications used by OnTime in Microsoft 365 will no longer function. Streaming subscriptions will continue to work for OnTime connected to an Exchange on-premises environment.

To address this – and to introduce a more robust, scalable, and future-proof synchronisation model — we have introduced the **OnTime Subscription Hub** in OnTime for Microsoft.

## Subscription Hub Topology



## Why the Subscription Hub?

- Removes dependency on EWS** by moving from streaming subscriptions to Microsoft Graph-based technology
- Improves scalability and performance** by offloading subscription handling from the main OnTime server
- Prepares all OnTime environments for the coming Microsoft 365 changes**

By separating the subscription handling into its own dedicated service, the Subscription Hub significantly reduces processing load on the core OnTime server.

For that reason, **we in general recommend running the Subscription Hub on a separate system rather than on the main OnTime server.**

### Requirements:

#### Operating System

- **Windows:** Windows Server 2019/2022/2025 or later, or Windows 10 or later
- **Linux:** Kernel 4.18 or later, glibc 2.28 or later

#### CPU

- The Subscription Hub service requires a single CPU core.
- Additional cores may be beneficial for the operating system but are not required by the application.

#### Memory

- Operating system requirements **plus 1 GB** for Subscription Hub.
- Actual memory usage depends on the number of subscriptions (users).
- The service consumes **less than 1 KB of RAM per subscription**.

#### Disk

- Operating system requirements **+ 1 GB** for application files and logs.

#### Network

- The Subscription Hub requires inbound access from the internal OnTime server on port **80 or 443**.
- It is recommended deploying Subscription Hub in a DMZ, as this avoids the need to open additional firewall ports.

## Register Subscription Hub in “Microsoft Entra ID”

The following permissions are required for Subscription Hub functionality to work with Microsoft Entra ID. The following permissions are required.

Calendars.Read	Allows the app to read events in user calendars
User.Read	Allows users to sign in to the app and allows the app to read the user's profile

- a) Login to <https://portal.azure.com>
- b) Select View ‘Manage Microsoft Entra ID’
- c) Click ‘App Registrations’
- d) Click ‘New registration’
- e) Enter a ‘Name’ for the application.  
Choose ‘Accounts in this organizational directory only - Single tenant’.  
Populate ‘Redirect URL’, insert <https://example.com:8443/ontimegcms/code.html>  
- this field cannot be empty  
Select a Platform ‘Web’  
Click ‘Register’.
- f) On next page (Overview) Copy the values [Application (client) ID] into a text editor e.g. Notepad.
- g) Click ‘Add a certificate or secret’ for Subscription Hub
- h) Click ‘+ New client secret’ for Subscription Hub
- i) Add a description, such as ‘Subscription Hub for OnTime Client Secret’
- j) Choose expiration. Click Add
- k) Click ‘API permissions’ tab. Click ‘Add a permission’.
- l) Click ‘Microsoft Graph’
- m) Click ‘Application permissions’
- n) The following ‘API permissions must be checked, type a few letters in the Search field and tick the following permissions:

Calendars.Read (application), User.Read (delegated)

- o) Click 'Add a permission'
- p) Click "Grant admin consent for \*Your Company\*"  
Click 'Yes' to answer the question 'Do you want to grant consent ...'

## Subscription Hub “otSubHub” Installation and Configuration Steps

### 1. Unzip the installation file

Unzip the file ‘otSubHub-10.x.zip’ from the OnTime server into a temporary folder on the Subscription Hub server. (Required when installing the Subscription Hub on a separate machine). If you are using the same machine for both OnTime and Subscription Hub, You may simply unzip package locally on that machine. (For both options, see example below)

### 2. Run the installer

Go to the folder where you extracted the files and run install.cmd as Administrator. (see example below)  
The Subscription Hub service will be installed in the folder ‘c:\node\otsubhub’.

### 3. Add SSL certificates

Create a folder named ‘certs’ (under C:\node) and copy the PEM certificate files used by your domain into the folder ‘c:\node\certs’. (see example page 169)

### 4. Edit the configuration file

Open the configuration file ‘otSubHub.json’ located in ‘C:\node\otsubhub’.

### 5. Set the certificate paths

In the configuration file ‘otSubHub.json’ update the paths for the certificate files ‘key.pem’ and ‘cert.pem’. (see example below)

### 6. Set the service URL

In the ‘URL’ field of the configuration file ‘otSubHub.json’ enter the full HTTPS domain name where the service will run. (see example below)

### 7. Save and restart the service

Save your changes and ‘restart the Subscription Hub service’ on the server. (see example below)

---

### Additional Notes:

- If the protocol for the ‘backendServer’ is set to https, it will automatically use the ‘key’ and ‘cert’ from the ‘noticeServer’, unless you set them differently.
- Both services can also run on the same port if required.
- Log files for the Subscription Hub service are stored in the folder. ‘C:\node\otsubhub’.

File | Home | Share | View

This PC > Local Disk (C:) > install > otSubHub-10.3 >

	Name	Date modified	Type	Size
Quick access				
Downloads	license	20-01-2025 22:12	File folder	
install	nodejs.org	25-09-2025 10:32	File folder	
Temp	otSubHub	29-09-2025 17:42	File folder	
Local Disk (C:)	service	20-01-2025 20:30	File folder	
Desktop	install.cmd	25-09-2025 13:56	Windows Comma...	1 KB
node	install_node.cmd	25-09-2025 10:32	Windows Comma...	2 KB
otsuhub	install_node.log	29-09-2025 17:42	LOG File	154 KB
This PC	install_otsuhub.cmd	25-09-2025 13:57	Windows Comma...	1 KB
Network	install_otsuhub.js	23-09-2025 14:35	JS File	2 KB
	install_service.cmd	25-09-2025 13:55	Windows Comma...	1 KB
	uninstall.cmd	25-09-2025 13:48	Windows Comma...	1 KB
	upgrade.cmd	29-09-2025 12:33	Windows Comma...	1 KB
	upgrade.log	29-09-2025 17:43	LOG File	1 KB

File | Home | Share | View

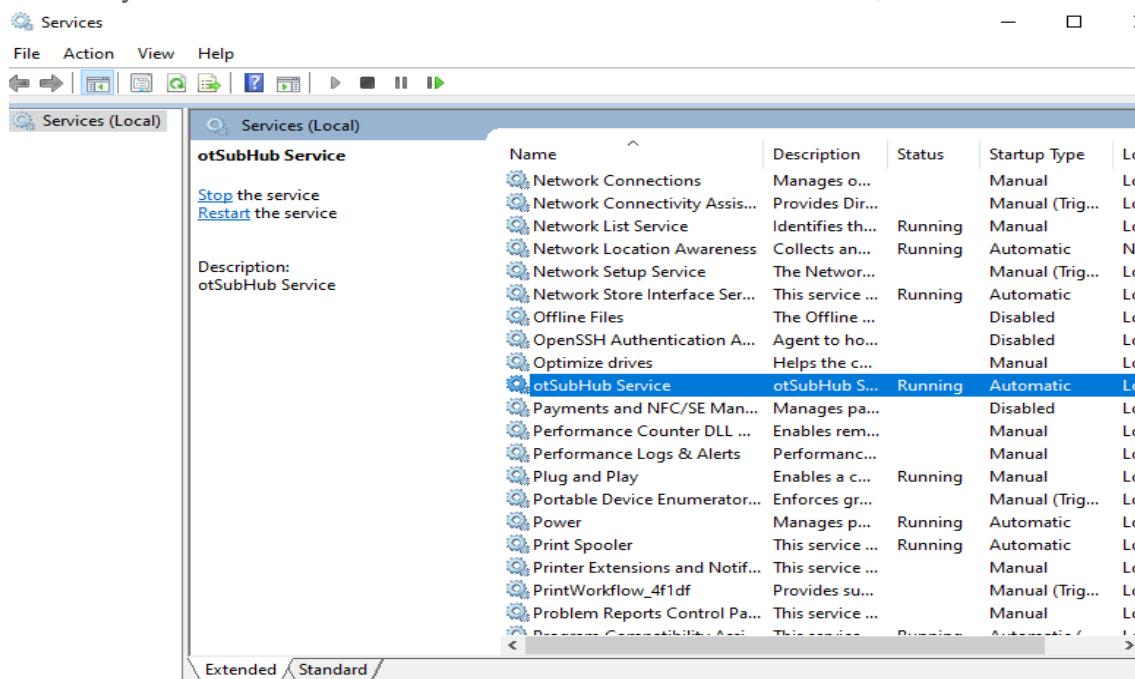
This PC > Local Disk (C:) > node > certs

	Name	Date modified	Type	Size
Quick access				
Desktop	cert.pem	13-02-2025 08:50	PEM File	10 KB
Downloads	key.pem	13-02-2025 08:56	PEM File	4 KB
Documents				
Pictures				

Example of the 'otSubHub.json' file is shown below:

```
{
  "noticeServer": {
    "protocol": "https",
    "port": 443,
    "key": "c:/node/certs/key.pem",
    "cert": "c:/node/certs/cert.pem",
    "payload": {
      "URL": "https://otsubhub.example.com",
      "clientState": "05vy+WNM2JurnOc/HuEFg+tsVco="
    }
  },
  "backendServer": {
    "protocol": "http",
    "port": 8443,
    "secretKey": "kH7KoGfI42Wqp5f/fIKrCBJnB2I"
  },
  "graph": {
    "expiration_min": 60,
    "subscribe_threads": 3,
    "renew_threads": 3,
    "unsubscribe_threads": 5
  },
  "ews": {
    "subscribe_threads": 5
  }
}
```

You may now find 'otSubHub' listed under Windows Services, as shown below:



Since the Subscription Hub server only requires HTTPS access from the internet, we recommend applying an IP filter in the firewall. See Microsoft Graph Change Notifications for more details.

<https://learn.microsoft.com/en-us/microsoft-365/enterprise/additional-office365-ip-addresses-and-urls?view=o365-worldwide>

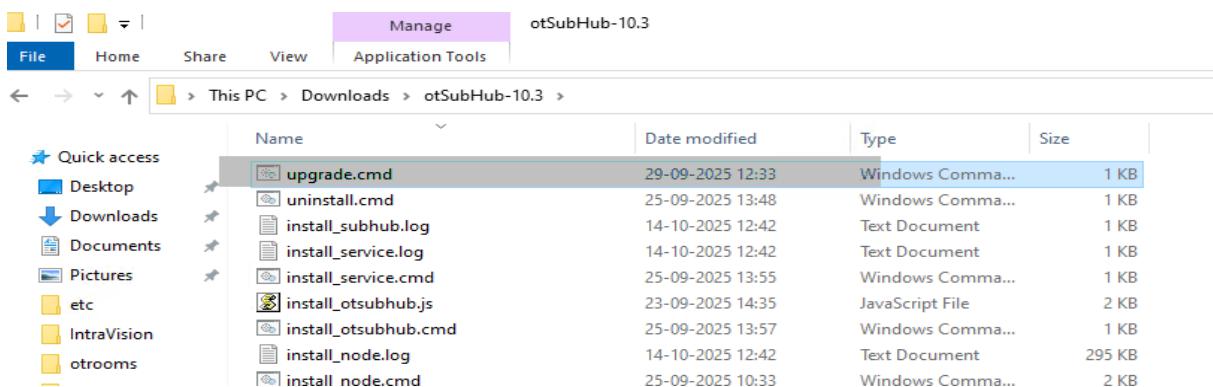
See the section *Microsoft Graph Change Notifications* for more information

**Note:** 'clientstat' is a unique value defined in the *otSubHub.json* file during installation of the *otSubHub* service. It represents the 'clientState' property included in each change notification (max length: 128 characters) and allows the client to verify the notification's authenticity by matching it with the subscribed 'clientState' value.

**Note:** The 'secretKey' is a unique value generated in the *otSubHub.json* file during *otSubHub* installation. It is sent from the backend server (OnTime) to the Subscription server, defining the 'secretKey' property exchanged between them.

## Upgrading Subscription Hub (otSubHub)

1. Unzip the file 'otSubHub-10.x.zip' from the OnTime server into a temporary folder on the Subscription Hub server. (This is needed if you are installing the Subscription Hub on a separate machine). If you are using the same machine for both OnTime and Subscription Hub, You may simply unzip the file locally on that machine.
2. Go to the folder where you extracted the files and run **upgrade.cmd** as an administrator. The Subscription Hub will be upgraded under existing 'C:\node\otsubhub' (see example below)
3. Finally, make sure that 'otSubHub' service listed under Windows Services after the upgrade assignment.



The screenshot shows a Windows File Explorer window with the following details:

- File Bar:** File, Home, Share, View, Manage, Application Tools.
- Address Bar:** This PC > Downloads > otSubHub-10.3 >
- Content Area:**
  - Left pane (Quick access):** Desktop, Downloads, Documents, Pictures, etc, IntraVision, otrooms.
  - Right pane (File List):**

Name	Date modified	Type	Size
upgrade.cmd	29-09-2025 12:33	Windows Comma...	1 KB
uninstall.cmd	25-09-2025 13:48	Windows Comma...	1 KB
install_subhub.log	14-10-2025 12:42	Text Document	1 KB
install_service.log	14-10-2025 12:42	Text Document	1 KB
install_service.cmd	25-09-2025 13:55	Windows Comma...	1 KB
install_otsubhub.js	23-09-2025 14:35	JavaScript File	2 KB
install_otsubhub.cmd	25-09-2025 13:57	Windows Comma...	1 KB
install_node.log	14-10-2025 12:42	Text Document	295 KB
install_node.cmd	25-09-2025 10:33	Windows Comma...	2 KB

## Configuring the Subscription Hub in OnTime Admin

### 1. Copy Credentials

Copy the values of the 'Client Application ID' and 'Client Secret Value' from the registered Subscription Hub application into a text editor, e.g., Notepad

### 2. Navigate to the OnTime Admin Centre

### 3. Open 'Domains' Section

From the left-hand navigation bar, select Domains.

### 4. Configure Subscription Hub

Select the Subscription Hub tab and enter the two values from step 1 under 'Subscription Hub App Registration' (see example below).

### 5. Set Subscription Hub URL

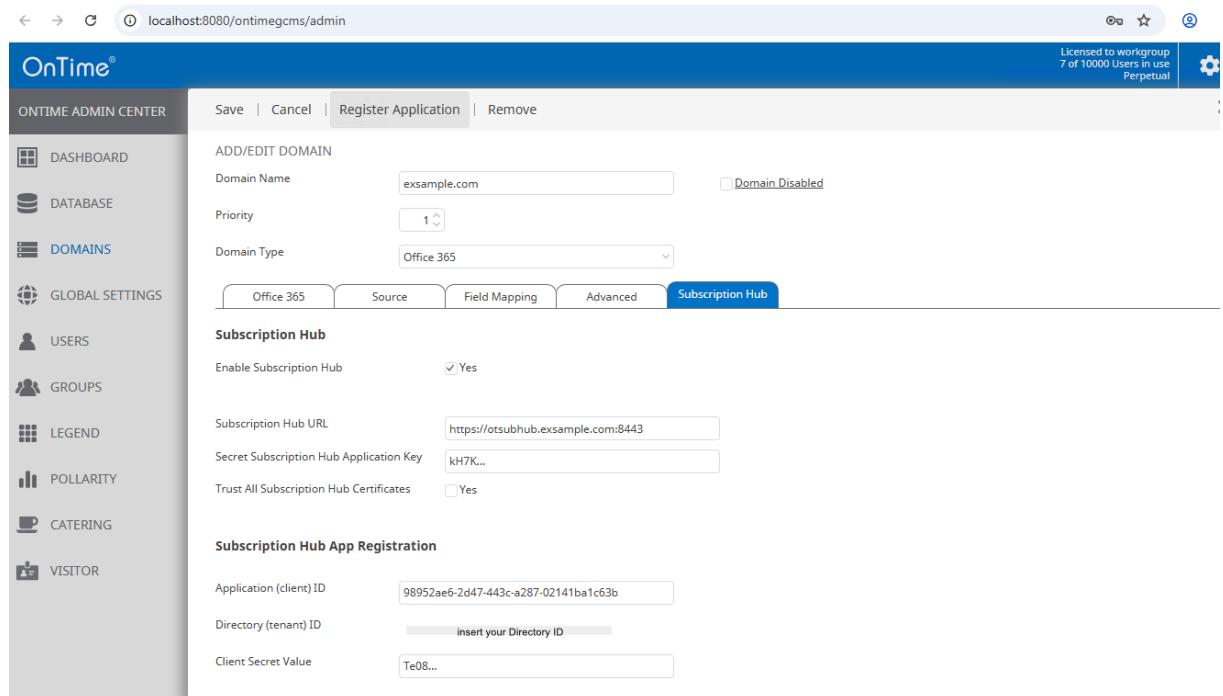
Open the 'otSubHub.json' file located in 'C:\node\otsubhub' in a text editor, copy the Subscription Hub URL (including the port number) values, and paste it into the 'Subscription Hub URL' field (see example below).

### 6. Insert Secret Key

Open the 'otSubHub.json' file located in 'C:\node\otsubhub' in a text editor, copy the 'secretKey' value, and paste it into the 'Secret Subscription Hub Application Key' field (see example below).

### 7. Enable Subscription Hub

Enable the option Enable Subscription Hub and save the changes. (see example below).

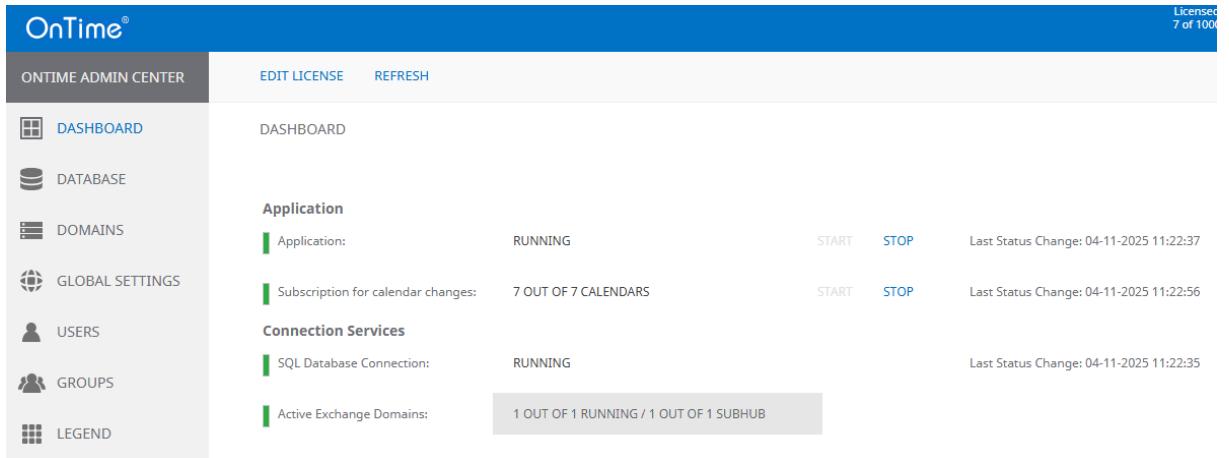


The screenshot shows the OnTime Admin Center interface. The left sidebar lists various administrative sections: DASHBOARD, DATABASE, DOMAINS (which is selected and highlighted in blue), GLOBAL SETTINGS, USERS, GROUPS, LEGEND, POLARITY, CATERING, and VISITOR. The main content area is titled 'ADD/EDIT DOMAIN' and shows a form for a domain named 'exsample.com'. The 'Domain Type' is set to 'Office 365'. The 'Subscription Hub' tab is active. Under 'Subscription Hub', the 'Enable Subscription Hub' checkbox is checked (labeled 'Yes'). The 'Subscription Hub URL' is set to 'https://otsubhub.exsample.com:8443'. The 'Secret Subscription Hub Application Key' is 'kH7K...'. The 'Trust All Subscription Hub Certificates' checkbox is unchecked. Below this, the 'Subscription Hub App Registration' section shows the 'Application (client) ID' as '98952ae6-2d47-443c-a287-02141ba1c63b', the 'Directory (tenant) ID' field is empty ('insert your Directory ID'), and the 'Client Secret Value' is 'Te08...'. At the top of the main content area, there are buttons for 'Save', 'Cancel', 'Register Application', and 'Remove'.

An example of the 'otSubHub.json' file is shown below.

```
{
  "noticeServer": {
    "protocol": "https",
    "port": 443,
    "key": "c:/node/certs/key.pem",
    "cert": "c:/node/certs/cert.pem",
    "payload": {
      "URL": "https://otsubhub.example.com",
      "clientState": "05vy+WNM2JurnOc/HuEFg+tsVco="
    }
  },
  "backendServer": {
    "protocol": "http",
    "port": 8443,
    "secretKey": "kH7KoGfI42Wqp5f/fIKrCBJnBzI"
  },
  "graph": {
    "expiration_min": 60,
    "subscribe_threads": 3,
    "renew_threads": 3,
    "unsubscribe_threads": 5
  },
  "ews": {
    "subscribe_threads": 5
  }
}
```

8. Now by navigating to the *OnTime Admin Dashboard*, you may view the status of 'SUBHUB' when it is running (see example below)



The screenshot shows the OnTime Admin Center interface. The left sidebar lists navigation options: DASHBOARD, DATABASE, DOMAINS, GLOBAL SETTINGS, USERS, GROUPS, and a LEGEND. The main content area has a header with 'EDIT LICENSE' and 'REFRESH' buttons, and a status bar indicating 'Licensed 7 of 1000'. Below this, the 'DASHBOARD' section is visible. The 'Application' section lists three items: 'Application' (status RUNNING, buttons START, STOP, Last Status Change: 04-11-2025 11:22:37), 'Subscription for calendar changes' (status 7 OUT OF 7 CALENDARS, buttons START, STOP, Last Status Change: 04-11-2025 11:22:56), and 'SQL Database Connection' (status RUNNING, Last Status Change: 04-11-2025 11:22:35). The 'Connection Services' section shows 'Active Exchange Domains' (status 1 OUT OF 1 RUNNING / 1 OUT OF 1 SUBHUB).

## Domains/Source

ONTIME ADMIN CENTER

Save | Cancel | Register Application | Remove

CAUTION: OPENING THE ADMIN INTERFACE ON PORT 8080 ON YOUR DESKTOP IS NOT RECOMMENDED. FROM YOUR DESKTOP WE RECOMMEND USING HTTPS USING PORT 8443. In use Perpetual

**ADD/EDIT DOMAIN**

Domain Name:   Domain Disabled

Priority:

Domain Type:

Office 365 **Source** Field Mapping Advanced Subscription Hub

LDAP

To get the correct information, please restart application and run the sync from the dashboard.

Persons:

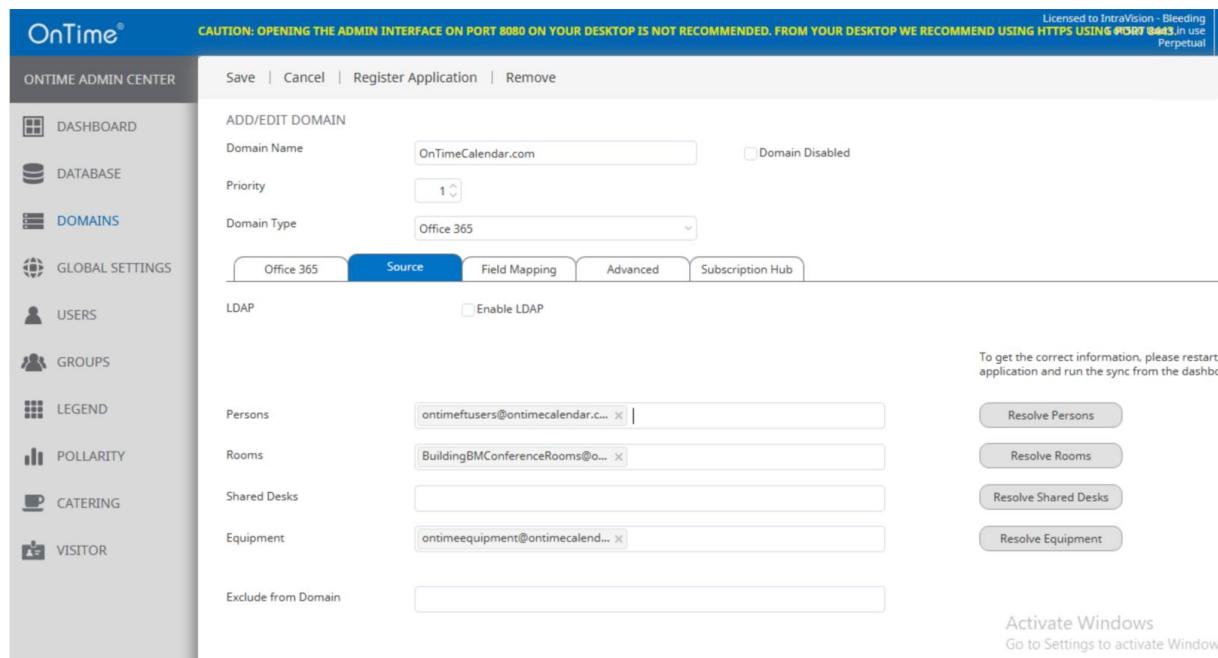
Rooms:

Shared Desks:

Equipment:

Exclude from Domain:

Activate Windows  
Go to Settings to activate Window



**Source** is where you configure users included in your OnTime setup.

**‘Untick’ ‘Enable LDAP’.**

Add distribution groups of persons, rooms, shared desks, equipment you want to be included in the OnTime calendar. The email addresses of these distribution groups are written into the fields. More groups or individuals can be added, separated by commas.

Click **‘Save’** to save your Domain Settings.

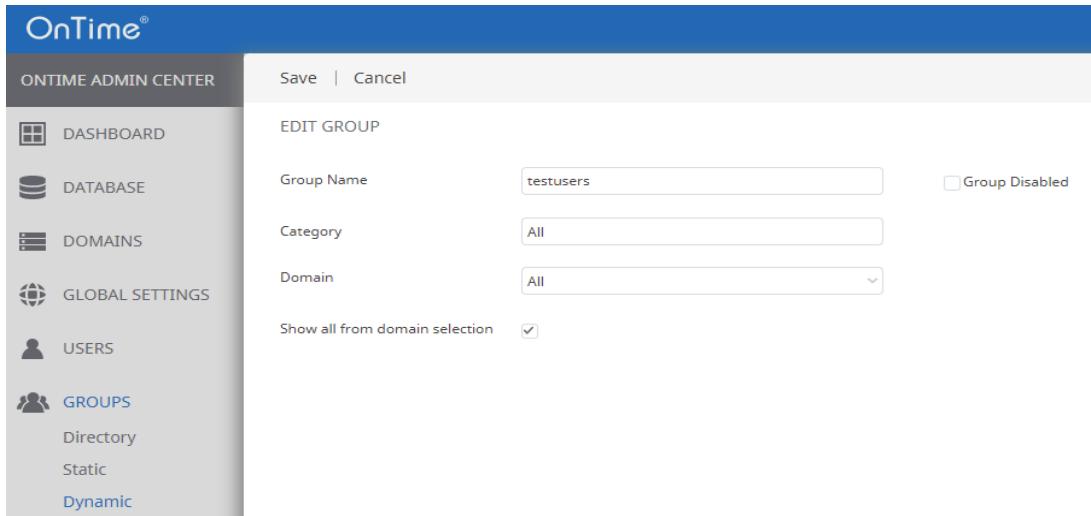
To reflect your new settings, go to the Dashboard - Stop and Start the Application. Then check that the “Database Service” and “Exchange Service” both show “Running”

## Groups

Select ‘Groups/Dynamic’ to create a group of persons included in OnTime selected above in the ‘Synchronization Source’ section in your **Domain settings**.

Click ‘Create New’. Creating at least one group will ensure that users will see more than one user in OnTime.

Enter a Group name, enter a Category (text) to be shown in the user interface, choose ‘All’ in Domain, tick ‘Show all from domain selection’.



The screenshot shows the OnTime Admin Center interface. The left sidebar has a 'GROUPS' section with 'Dynamic' selected. The main area is titled 'EDIT GROUP' with fields for 'Group Name' (set to 'testusers'), 'Category' (set to 'All'), 'Domain' (set to 'All'), and a checked 'Show all from domain selection' checkbox. There is also a 'Group Disabled' checkbox which is unchecked. At the top right are 'Save' and 'Cancel' buttons.

Click **‘Save’**.

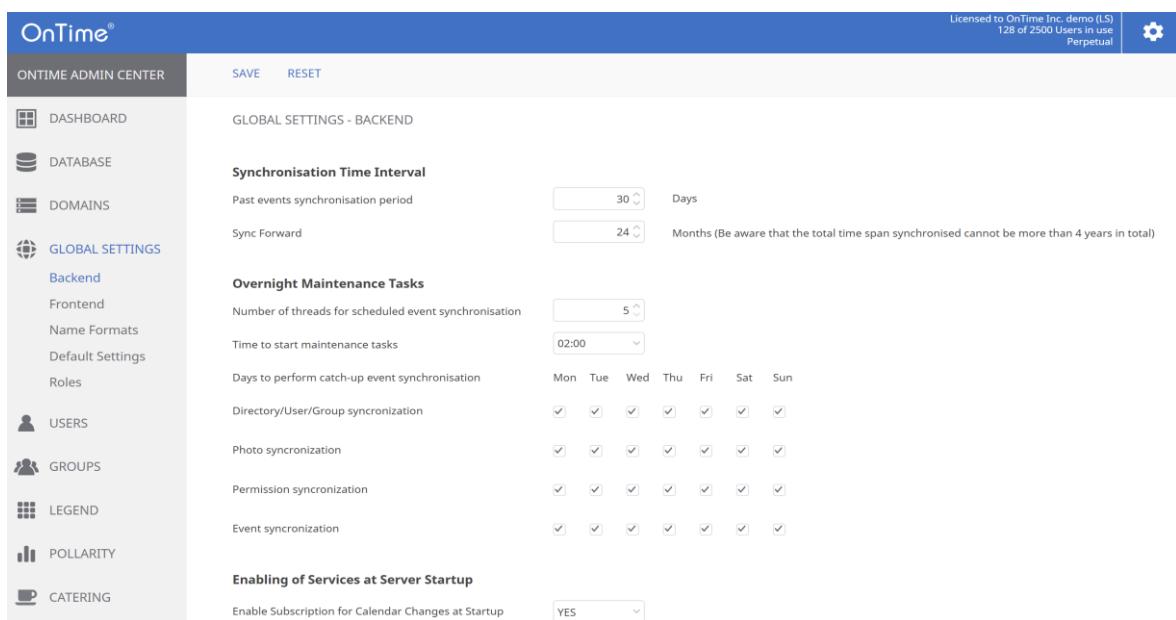
Changes in the 'dynamic groups' must be followed by clicking “Start” at “User & Group Sync” in the **Dashboard**.

## Global Settings - Backend

Click Global/Backend

Choose 'Yes' at 'Enable subscription for Calendar Changes at Startup'.

- Click 'Save' to ensure the synchronisation subscription service starts every time you click stop/start at the 'Application Status' in the Dashboard.



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**GLOBAL SETTINGS - BACKEND**

**Synchronisation Time Interval**

Past events synchronisation period: 30 Days

Sync Forward: 24 Months (Be aware that the total time span synchronised cannot be more than 4 years in total)

**Overnight Maintenance Tasks**

Number of threads for scheduled event synchronisation: 5

Time to start maintenance tasks: 02:00

Days to perform catch-up event synchronisation: Mon, Tue, Wed, Thu, Fri, Sat, Sun

Directory/User/Group synchronization: ✓, ✓, ✓, ✓, ✓, ✓, ✓

Photo synchronization: ✓, ✓, ✓, ✓, ✓, ✓, ✓

Permission synchronization: ✓, ✓, ✓, ✓, ✓, ✓, ✓

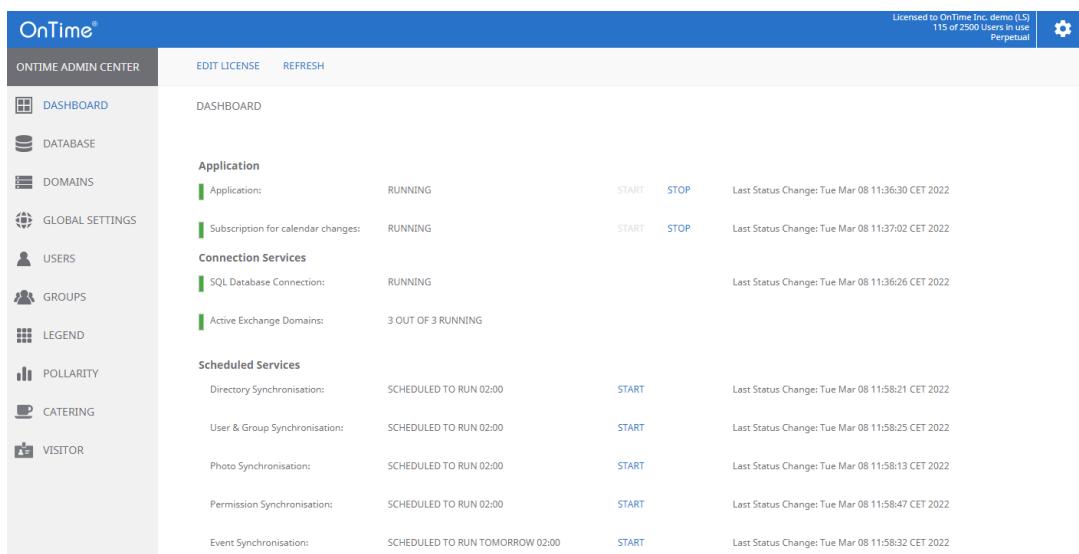
Event synchronization: ✓, ✓, ✓, ✓, ✓, ✓, ✓

**Enabling of Services at Server Startup**

Enable Subscription for Calendar Changes at Startup: YES

## Dashboard

The main page of the 'OnTime Admin Center' is the Dashboard. This page presents an overview of the processes in OnTime. When you change the values in the other pages, you must restart the OnTime application by clicking "Stop/Start" in the according section.



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**DASHBOARD**

**Application**

- Application: RUNNING  START STOP Last Status Change: Tue Mar 08 11:36:30 CET 2022
- Subscription for calendar changes: RUNNING  START STOP Last Status Change: Tue Mar 08 11:37:02 CET 2022

**Connection Services**

- SQL Database Connection: RUNNING  Last Status Change: Tue Mar 08 11:36:26 CET 2022
- Active Exchange Domains: 3 OUT OF 3 RUNNING 

**Scheduled Services**

- Directory Synchronisation: SCHEDULED TO RUN 02:00  START Last Status Change: Tue Mar 08 11:58:21 CET 2022
- User & Group Synchronisation: SCHEDULED TO RUN 02:00  START Last Status Change: Tue Mar 08 11:58:25 CET 2022
- Photo Synchronisation: SCHEDULED TO RUN 02:00  START Last Status Change: Tue Mar 08 11:58:13 CET 2022
- Permission Synchronisation: SCHEDULED TO RUN 02:00  START Last Status Change: Tue Mar 08 11:58:47 CET 2022
- Event Synchronisation: SCHEDULED TO RUN TOMORROW 02:00  START Last Status Change: Tue Mar 08 11:58:32 CET 2022

The section **Persistent** shows the status of the OnTime Application and the automatic subscription of calendar changes. Both should be running within normal production.

The section **Connection** shows the status of the connections to the OnTime SQL database and the Exchange service. Both should be running within normal production.

The section **Scheduled** normally shows the status stopped because running is done automatically at midnight. But the five positions within this section can be started on-demand to reflect changes at once.

**Directory Sync** takes care of updating users/groups from Exchange.

**User & Group Sync** synchronises the Exchange users/groups onto the OnTime SQL tables.

**Photo Sync** imports the users' photos/avatars from the Exchange server

**Permission Sync** updates the users' permissions to update other users' calendars

**Event Sync** is synchronising all users calendar entries and may take a considerable amount of time.

# OnTime User – Calendar

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## OnTime Client Web Desktop

OnTime from the user perspective:

From a browser, open the user URL — for example:

<http://ontime.example.com/ontimegcms/desktop>

**Note:** Insert your relevant URL instead of 'ontime.example.com'.



The screenshot shows a weekly calendar view from April 4 to April 10, 2022. The sidebar on the left lists groups and notices. The main area shows event blocks for users like Barbara Kruger, Adam Warner, Alex Miller, Alfred Adler, Alphonse Alias, André Bazin, and Annette Kjersgaard. The calendar interface includes a top navigation bar with a date range (4 - 10. april 2022), a search bar, and a 1 week button.

# OnTime Client Web Mobile

## OnTime from the user perspective:

From a mobile browser - Open the user URL – for example:

<http://ontime.example.com/ontimegcms/mobile>

**Note:** Insert your relevant URL instead of 'ontime.example.com'