



Compiling

Teamlab Office Server Community Edition
for a Local Server

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About Teamlab Office Server

Teamlab Office Server is a portal version intended for those who decided to install and configure **Teamlab Office** on their own server. This installation guide is designed to give the user the possibility to compile and deploy all the system components from the source codes without any additional help. The guide is intended for the users with the knowledge and skills of Microsoft Windows based server administration.

Teamlab Office Server includes the following components:

- **TeamlabOfficeServer** - Windows service that manages the main **Teamlab Office** main services:
 - **Teamlab Talk** - Teamlab Office instant messages service;
 - **Teamlab Notify Service** - notifications via email service;
 - **Full Text Index** - service necessary for the full text search;
 - **Feed Aggregator Service** - service responsible for the portal news feed analysis and layout;
 - **Mail Autoreply Service** - autopost service, allowing the users create portal entities via sending email messages to the special address;

- **TeamlabOfficeServerMail, TeamlabOfficeServerMailHelper** - Windows services that aggregate and save mail messages in **Teamlab Office Mail** module. The detailed information on these services configuration and work can be found in the following files:
 - module\ASC.Mail.Aggregator\ASC.Mail.Aggregator.CollectionService\ReadMe.txt
 - module\ASC.Mail.Aggregator\ASC.Mail.Aggregator.CollectionService\Requirements.txt
 - module\ASC.Mail.Aggregator\ASC.Mail.Watchdog.Service\ReadMe.txt

- **WebStudio** - web site where all the Teamlab Office products and modules are located.
- Auxiliary tools.

System Requirements

Hardware

- **CPU:** 1.7 GHz or higher;
- **RAM:** 1 GB or higher;
- **Hard Disk free space:** not less than 1 GB.

Software

- **OS:** Microsoft Windows Vista SP2, Microsoft Windows 7, Microsoft Windows 8, Microsoft Windows 8.1, Microsoft Windows Server 2008(R2), Microsoft Windows Server 2012(R2);
- Microsoft **.NET Framework** 4.5;
- **Internet Information Services** 7 or later with following **modules**:
 - Internet Information Services Manager;
 - Default Document; Directory Browsing; HTTP Errors; HTTP Redirection; Static Content;
 - .NET Extensibility (for Microsoft Windows Vista SP2, Microsoft Windows 7, Microsoft Windows Server 2008(R2));
 - .NET Extensibility 3.5; .NET Extensibility 4.5 (for Microsoft Windows 8, Microsoft Windows 8.1, Microsoft Windows Server 2012(R2));
- **MySQL Server** 5.1 or later;
- One of the following **browsers**: Microsoft Internet Explorer 9 or later, last versions of Mozilla Firefox, Opera, Safari, Google Chrome.

Database Setup

Teamlab Office Server works with MySQL database. Perform the following steps to be able to work with the standard configuration:

1. Make sure that MySQL Server 5.1 or later version is installed on your local server;
2. Set the *teamlab* password for the *root* user;
3. Create a new database with the *teamlab* name;
4. Run sql-scripts from the *SQL_Scripts* folder **excluding** the ones placed in the *SQL_Scripts\SQLite* folder. **Note!** The scripts with the data (the ones with the *.Data.sql* in their names) must be executed **after** the scripts for the table creation.

In case you do not want to use the standard configuration, you can choose your own user name, password or select a database name. Perform the following steps to do that:

1. Use any text editor to create a text file and write a database connection string with the following format: `Server={ServerName};Database={DatabaseName};UserID={UserName};Password={UserPassword};Pooling=True;Character Set=utf8`". The below parameters can be used (please do not use the curly brackets when substituting the actual values):
 - a. *{ServerName}* - IP address or network name of the computer with the MySQL Server software installed;
 - b. *{DatabaseName}* - the name of the database used to save Teamlab Office Server data;
 - c. *{UserName}* - the account name used to connect to the database. Make sure that this account has the write access rights and permissions to add lines from the database table;
 - d. *{UserPassword}* - the password for the account used to connect to the database.
2. Change all the connection strings **excluding** "tmresource" and "tmresourceTrans" with the resulting string in the following files:
 - a. `web\studio\ASC.Web.Studio\web.connections.config`

- b. `_ci\additional\TeamLabSvc.exe.config`
 - c. `module\ASC.Mail.Aggregator\ASC.Mail.Aggregator.CollectionService\App.config`
 - d. `module\ASC.Mail.Aggregator\ASC.Mail.Watchdog.Service\App.config`
3. Run sql-scripts from the `SQL_Scripts\` folder **excluding** the ones placed in the `SQL_Scripts\SQLite` folder. **Note!** The scripts with the data (the ones with the `.Data.sql` in their names) must be executed **after** the scripts for the table creation.

Teamlab Office Server Compilation

Go to the `redistributable\asc` folder and compile the source code using the `BuildAndDeploy.bat` file. Once the compilation is over the binary files for Teamlab Office Server will be located in the `_ci\deploy\STANDALONE\` folder.

Teamlab Office Server Deployment

Say you want to deploy your **Teamlab Office Server** in the `C:\Teamlab Office` directory. You can choose any other directory name. In this case change `C:\Teamlab Office` for the path to this directory.

1. Create the `C:\Teamlab Office` directory;
2. Copy all the contents of the `_ci\deploy\STANDALONE\` folder to the created `C:\Teamlab Office` folder.

Important Notice

All the portal data is saved in the *Data* and *WebStudio* folders. In the *Data* folder the documents uploaded or created in the **Documents** module are placed, all the attachments saved using the mail aggregator are also placed there.

Teamlab Office Server Services Installation

1. Install **TeamlabOfficeServer** as a Windows service. Using the Windows command line run `sc create TeamlabOfficeServer binpath= "C:\Teamlab Office\Service\TeamLabSvc.exe" start= auto`
2. Install **TeamlabOfficeServerMail** as a Windows service. Using the Windows command line run `sc create TeamlabOfficeServerMail binpath= "C:\Teamlab Office\Mail\Aggregator\ASC.Mail.Aggregator.CollectionService.exe" start= auto`
3. Install **TeamlabOfficeServerMailHelper** as a Windows service. Using the Windows command line run `sc create TeamlabOfficeServerMailHelper binpath= "C:\Teamlab Office\Mail\Watchdog\ASC.Mail.Watchdog.Service.exe" start= auto`

To start the **Teamlab Office Server** services run the *C:\Teamlab Office\Service\TeamLabSvc.Start.bat* file as administrator. To pause or restart the services use the *C:\Teamlab Office\Service\TeamLabSvc.Stop.bat* file.

Internet Information Services Configuration

Teamlab Office Server uses Internet Information Services for web site management. Please

notice that some Teamlab Office office might imply that the site is available via the standard port 80 in case of http connection and via port 443 in case of https connection. It is not recommended to assign any other ports bindings for the web site.

1. Open the Internet Information Services Manager.
2. Add a web site named Teamlab Office. Point out the *C:\Teamlab Office\WebStudio* folder as a path to the site.
3. Make sure that your web site uses .Net Framework 4.0. For that go to **Application Pools** settings and find the application pool for your site (by default the application pool name coincides with the site name). In the **Edit Application Pool** section select **Basic Settings**. Set the .Net Framework 4.0 in the .NET Framework Version and save the changes.
4. Add a virtual **mailattachments** directory to the just created web site. Set the *C:\Teamlab Office\Data* as a path to the directory. This virtual directory is necessary for some of the Teamlab Office mail aggregator functions correct work.
5. Both the account used for the site work and IUSR account must have maximal access rights to the *C:\Teamlab Office* directory. To do that
 - a. Select the **Security** tab in the *C:\Teamlab Office* properties;
 - b. Click "Edit...";
 - c. Click "Add..." to add a new group or a single user;
 - d. Add the *iis apppool\<AppPoolName>* and IUSR users in the opened dialog window. When adding make sure that your local server is set in the "From this location" field. Use the "Check Names" button to see if the system can find this user.
6. For the **Documents** module correct work it is necessary that the Windows **WCF Http Activation** component was enabled. To do that run the *Programs And Features* window from the Windows control panel, select *Turn Windows Features On or Off*, expand the *.NET Framework 3.5* list, check *WCF Http Activation* and save the changes. In case you use **Windows 8** or **Windows Server 2012** also check the *Http Activation* component in the *.NET Framework 4.5/WCF Services* tab.

Adding Firewall Rules

Some of the **Teamlab Office Server** functions such as notification server, IM server and mail aggregator can require Internet access via specific ports. For these services correct work add the following programs to your Firewall exceptions list:

- C:\Teamlab Office\Service\TeamLabSvc.exe
- C:\Teamlab Office\Mail\Aggregator\ASC.Mail.Aggregator.CollectionService.exe

Migrating from SaaS Version

You can transfer all your data from the existing SaaS portal to the local server. To do that follow the steps below:

1. Make a backup copy of your SaaS portal and download the archive with all the data.
2. Install and configure Teamlab Office Server to your local server using this guide.
3. Run the *C:\Teamlab Office\Service\ASC.Data.Backup.Restore.exe* file.
4. In the opened window select the path to the previously downloaded archive with the portal data in the "Teamlab backup file" field.
5. Click *Restore Backup* and wait for the program to perform the operation.
6. We recommend to restart the *TeamlabOfficeService* service and Teamlab Office web site for the portal proper work.

Teamlab Office Server Portal Setup

If you performed all the steps, then your **Teamlab Office** portal should be available at the `http://computername` address. To start work with the portal follow the wizard and set up the following parameters:

- **Password:** Enter the password you are going to use for the portal access and confirm it. The password must be at least 6 characters long.
- **Email address:** The request for the address confirmation will be sent to the entered mailbox. Use the link from that email message to complete the registration procedure.
- **Set Language and Time Zone parameters.**

Getting Started with Teamlab Office Server

Once the portal is created, you can start working:

- **Edit your profile:** Click the [Your Name] link at the upper right corner of the portal and select the **Profile** option from the drop-down list.
- **Add more users to your portal:** Use one of three ways to add/invite people to your portal: using the **New User** option or **Add Users** link on the **Users** page within the **Community**, **CRM** or **Projects** modules, or sending the **Invitation Link** available on the **Portal Settings** page.
- **Start your first project:** Access the **Projects** module and click the **Start New Project** button or go to **Settings->Import** if you wish to migrate from Basecamp to Teamlab Office.

- **Store your client database in CRM:** Access the **CRM** module and add your first contacts, companies or tasks using **Create** button or **Import** data from **.csv** file using **"..."** button.
- **Organize your company documentation:** Access the **Documents** module, create folders, subfolders and set access rights to them using the **Actions** icon to the right.
- **Create your own social network:** Access the **Community** module and use one of the business collaboration tools to start creating your network.
- **Make your schedule:** Open the **Calendar** tool, click the **Create** button at the upper left corner and select the **New Event** option from the drop-down list to add the first event to your calendar.
- **Communicate with others in real time:** Open the **Talk** tool, select the person you wish to communicate with and start talking.
- **Keep all your mail in one place:** Access the Mail module and click the **Add New Account** button.

Troubleshooting

Below the most popular troubles which appear when installing Teamlab Office on a local server and solutions to them are listed.

Trouble: The web site `http://computername` does not work.

Solution: Make sure that the port 80 is not closed by any other program (for example: Skype, firewall or antivirus).

Trouble: Teamlab Talk does not work.

Solution: Make sure that the `TeamlabOfficeServer` service is running and added to the firewall and antivirus exceptions. Ports 5222 and 5280 must be opened.

Trouble: Mailbox cannot be connected to Teamlab Mail module or no mail is received to the connected mailbox.

Solution: Make sure that the `TeamlabOfficeServerMail` service is running and added to the firewall and antivirus exceptions. Also, make sure that the following ports are opened for the outgoing requests.

- *SMTP*: 25, 465
- *IMAP*: 143, 993
- *POP3*: 110, 995

More detailed information concerning probable issues with Teamlab Office Mail module can be found in the `module\ASC.Mail.Aggregator\ASC.Mail.Aggregator.CollectionService\Requirements.txt` file.

Trouble: Notifications about the portal events are not received to the email address.

Solution: Make sure that the TeamlabOfficeServer service is running and added to the firewall and antivirus exceptions. Make sure that the port 25 is opened for the outgoing requests.

Trouble: Mail Autoreply Service does not work.

Solution: Make sure that the port 25 is opened for the incoming requests. Make also sure that you set your DNS MX record correctly.