# Getting Started

## Install

### Step-by-step

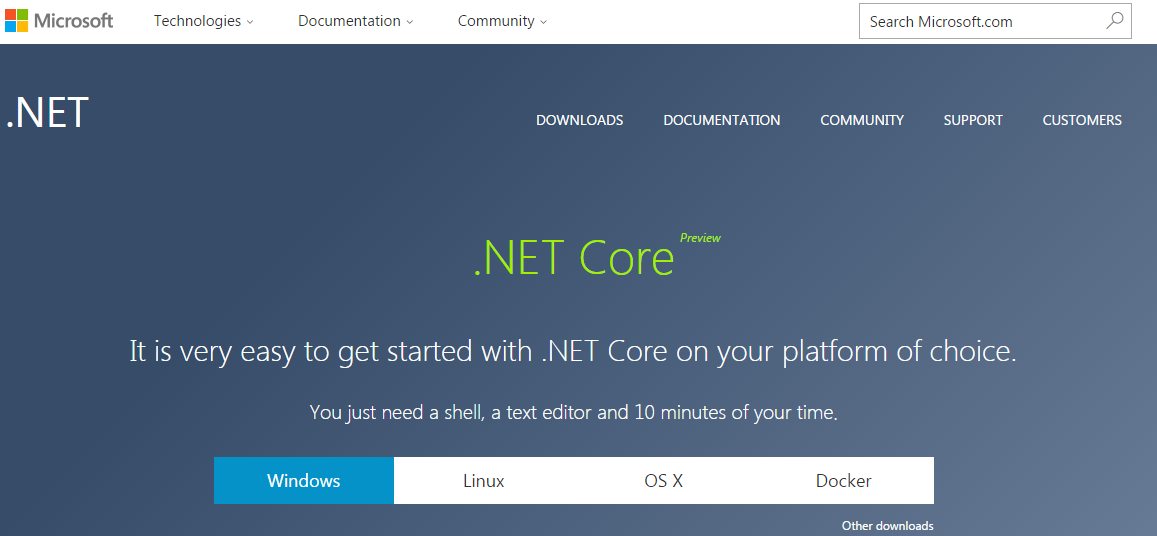
Backend services can be installed on several machines. But in this tutorial we will provide you with detailed instructions on how to install Lokit on a single one. Follow these guidelines if you want to perform a new, manual installation of the latest Lokit version.

#### Step1 : Requirements

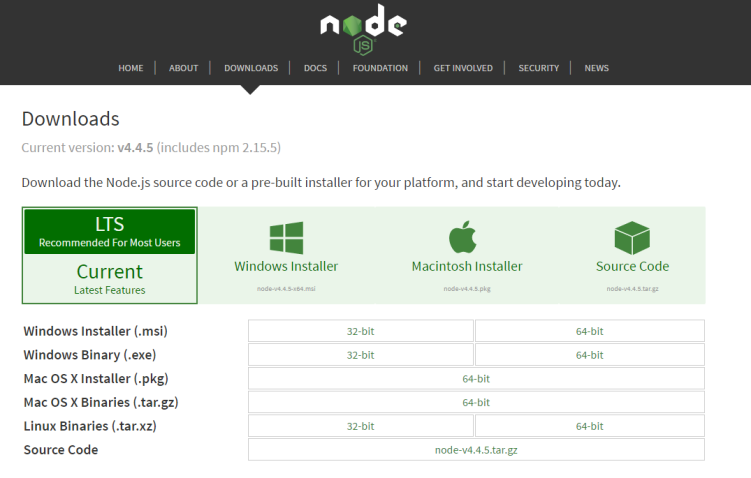
First-of-all you need to install GIT, .NET CORE and NodeJs on your machine. Follow the guides from the official websites to install them.



Install GIT ([link](https://git-scm.com/downloads))



Install .NET core ([link](https://www.microsoft.com/net/core#windows))



Install NodeJs ([link](https://nodejs.org/en/download/))

When the installation is finished, install the npm package “ember” on your machine and execute the command below in a command prompt :

npm install –g ember-cli

Now the required Softwares are installed on your machine, backend and frontend modules can be built with “dotnet or ember” command line instructions.

In the actual state the modules cannot be started because they required a database connection. An SQLSERVER **or** SQLITE database **and** Mongo database must be deployed and for all of them you need an account with “Create Table” and “Read/Insert/Update/Delete” permissions.

The accounts are used to migrate the tables and interact with them.

Three schemas need to be created on SqlServer and / or SqlLite : one for the authorization server, uma and configuration API. Reuse the schema name when you’re upading the connection string in the “appsettings.json” file for the steps 5 and X.

#### Step2 : Download sources

Fetch backend and frontend sources from the GIT repositories :

* Backend component : <https://github.com/thabart/SimpleIdentityServer.git>
* Frontend component : <https://github.com/thabart/UmaManagerWebSite.git>

When the sources have been retrieved, you should see two new repositories :

* SimpleIdentityServer : it contains all backend services
* UmaManagerWebSite : it contains the website

#### **Step3 : Build backend modules**

Open a command prompt and navigate to the directory where the GIT repositories have been downloaded. Execute the following commands to download all Nuget packages and build the modules :

cd SimpleIdentityServer\SimpleIdentityServer\src

dotnet restore

dotnet build SimpleIdentityServer.Startup

dotnet build SimpleIdentityServer.Manager.Host.Startup

dotnet build SimpleIdentityServer.Configuration.Startup

dotnet build SimpleIdentityServer.Manager.Host.Startup

#### Step 4 : Build frontend modules

Do the same than before and execute the following commands :

cd UmaManagerWebSite

ember build

If an error occurred, refer to the annex to try to fix it.

#### Step5 : Deploy databases

Now your solution is built and you can use an SqlServer or SqlLite account with “Create Table” permission, then the SQL tables can be migrated.

Do the same than before and navigate to the folder “SimpleIdentityServer\src\ SimpleIdentityServer.DataAccess.SqlServer” open the “appsettings.json” file and update its properties :

* Replace the ConnectionString with yours.
* If you’re using SqlServer then set the property values “isSqlServer” to true and “isSqlLite” to false, do the revert if you’re using SqlLite.

Launch the migration by executing the following command :

dotnet ef –f net46 database update

Repeat the previous step by replacing the folder “SimpleIdentityServer\src\SimpleIdentityServer.DataAccess.SqlServer” by “SimpleIdentityServer.Configuration.EF” and “SimpleIdentityServer.Uma.EF”

#### Step6 : Update backend modules configuration

Repeat the step 5 without executing the command line instruction for the projects :

* *SimpleIdentityServer\src\ SimpleIdentityServer.Startup*
* *SimpleIdentityServer\src\ SimpleIdentityServer.Manager.Host.Startup :* use the same configuration as “SimpleIdentityServer.Startup”
* *SimpleIdentityServer\src\SimpleIdentityServer.Configuration.Startup*
* *SimpleIdentityServer\src\ SimpleIdentityServer.Uma.Host*

#### Step7 : Run backend modules

Execute each instruction below in a new command prompt :

cd SimpleIdentityServer\src\SimpleIdentityServer.Startup

dotnet –f net46 –server.urls=http://\*:5000

cd SimpleIdentityServer\src\SimpleIdentityServer.Uma.Host

dotnet –f net46 –server.urls=http://\* :5001

cd SimpleIdentityServer\src\SimpleIdentityServer.Manager.Host.Startup

dotnet –f net46 –server.urls=http://\*:5002

cd SimpleIdentityServer\src\SimpleIdentityServer.Configuration.Startup

dotnet –f net46 –server.urls=http://\* :5004

#### Step 8 : Update frontend configuration modules

TODO

#### Step9 : Run frontend modules

TODO

### With docker

*TODO*

# Annex

## Bower or npm packages cannot be installed

Configure the proxy

(TODO)

Architecture

Explain the different components

Draw an interaction diagram between component

Install

Install manually

Install with docker

Usage

Protect a resource : create a resource via the UI or visual studio extension, authenticate the user, check the user is authorized, modify the client

API documentation

Link to microsoft : <https://apps.dev.microsoft.com/?mkt=fr-be#/application/sapi/0000000048185530>