

Installation Guide

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1. Document History

Details/Section	Version	Date	current release	Owner
Initial Version	1.0.0	20.04.2018		Valérie Maret
Added Server checks	1.0.1	28.06.2018		Valérie Maret
Restructured	1.0.2	22.08.2018		Valérie Maret
Added ping check	1.0.3	18.10.2018	2018.10.001	Valérie Maret
Improved documentation Get default configuration, Index data	1.0.4	30.11.2018	2018.11.001	Valérie Maret
Simplified installation: introducing package loader to load default settings	1.0.5	17.01.2019	2019.01.001	Valérie Maret
Simplified load for UI configuration	1.0.6	06.03.2019	2019.02.001	Valérie Maret
Slight change in install steps				
new install process	2.0.0	25.09.2020	2020.02.001	Valérie Maret
Section 7 Access Rights in SpiceCRM	2.0.1	31.12.2020	2020.04.001	Valérie Maret
Updated requirements	2.0.2	08.10.2021	2021.02.001	Valérie Maret
default preferences	2.0.3	22.11.2021	2021.03.001	Valérie Maret
php requirements	2.0.4	08.07.2022	2022.02.001	Valérie Maret
Fts connection params; repair/rebuild moved to Dictionary Manager; reload cache	2.0.5	21.03.2023	2023.01.001	Valérie Maret
Added imap to required extensions, recommendation charset and collation for MySQL	2.0.6	2.10.2023	2023.01.002	Valérie Maret

2. Server architecture

Backend and Frontend may be installed on different servers or on the same one

2.1. Server Requirements (Linux based or Windows)

Apache:

Caution: there was a bug with debian/ubuntu higher than apache 2.4.54

Enable Url Rewriting

On linux based systems e.g. debian enter

a2enmod rewrite

On windows based systems in your httpd.conf ensure the following line is there

LoadModule rewrite_module modules/mod_rewrite.so

Restart webserver

To ensure that the rewrite rules from the .htaccess files can be evaluated also override for the directory or the virtual host if you use virtual hosts in apache. Depending on your configuration you might find the Directory part in the httpd://conf or any subconfiguration for your webserver.

DocumentRoot "/var/www"

<Directory "/var/www">

Options Indexes FollowSymLinks Includes ExecCGI

AllowOverride All

Require all granted

</Directory>

A fast way to get an environment on your local computer would be to download xampp distribution from xampp.org and install.

PHP 7.4 – PHP 8.2

Extensions:

- cURL Module => curl
- Database Drivers => dbdrivers
- Image handling => gd
- Imap => imap
- Mail Parse => mailparse
- MB Strings Module => mbstring
- PCRE Library => pcre
- XML Parsing => xml_parser
- ZIP Handling Module => zip

Additionally any php extension related to the database type you use.

PHP allows to use stream (upload://)

php.ini

- display_errors=Off
- default charset="UTF-8"
- date.timezone = Europe/Vienna date.timezone setting is important! Think of it!
- max_execution_time=300
- memory_limit=256M
- upload_file_size=50MB

If your php CLI uses another php.ini, do the same modifications there too!

Database Server (commonly MySQL)

Supported MySQL, MSSQL, Oracle

Installation wizard supports MySQL

MySQL 8 is supported since SpiceCRM version 2023.01.001

Check your version: SHOW VARIABLES LIKE "%version%"

Elastic Search (supported 7.6 and higher)

ElasticSearch 8 is supported since SpiceCRM version 2023.01.001

Follow installation steps described under https://www.elastic.co/de/downloads/elasticsearch:

- 1. Download and unzip Elasticsearch
- 2. Run bin/elasticsearch (or bin\elasticsearch.bat on Windows
- 3. Run curl http://localhost:9200/ or Invoke-RestMethod http://localhost:9200 with PowerShell

NodeJS

If you wish to use the real time notification capability or any CTI integration, you will need NodeJS.

Use latest version available for your server environment.

How to Check requirements per console

Check php version	php -v
	or create a phpinfo file
Check elastic Search version	curl -XGET 'localhost:9200'
Check MySQL	connect to db: #: mysql -u xxx -pyyy mysql > SHOW VARIABLES LIKE 'version'
Check url rewrite	open phpinfo: search for mod_rewrite Sollte in "apache2handler" "Loaded Modules" erscheinen

Access to external APIs

АРІ	needed for	Check per command line
smtp.sendgrid.net	Mailboxes	ping smtp.sendgrid.net
(SpiceCRM full version only)		
spicecrmrelease.spicecrm.io	SpiceLoader (default configurations)	ping spicecrmrelease.spicecrm.io

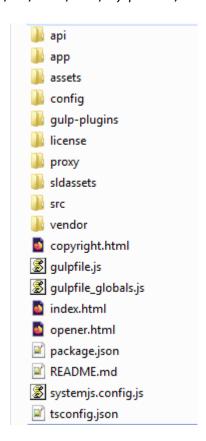
2.2. Download package

The main components (core) can be retrieved from GitHUB

https://github.com/spicecrm/spicecrm

2.3. Architecture example

/var/www/html/myspicecrm/



Unzip spicecrm package to the root of your instance (here called *myspicecrm*).

Or checkout with git clone:

cd /var/www/html

git clone https://github.com/spicecrm/spicecrm.git myspicecrm

3. Launch Frontend

Make sure you have all credentials needed for installation:

- Database host, name, user name and password
- Elastic search server name, port.
 Optional: username and password to secure your elasticsearch (new since 2023.01.001)
- File permission will be checked during installation but they won't be corrected automatically

Installation process will also create folders under api/. Make sure api/ is writeable.

Call your SpiceCRM instance. http://localhost/myspicecrm in our example.

Installation process will start automatically. Fill in fields step by step.

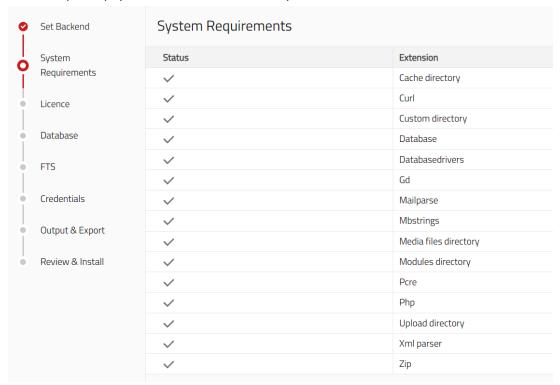
3.1. Backend Settings



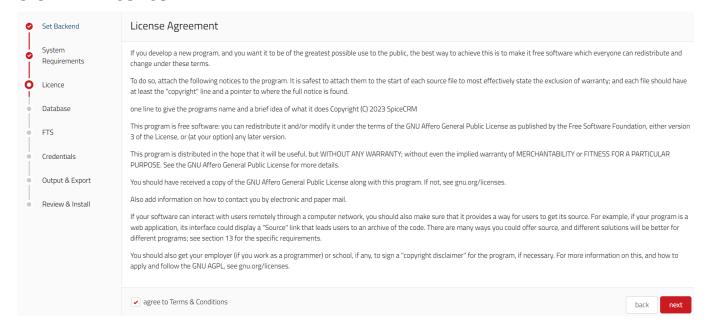
Field	description
Name	Name of your instance
Show Forgot Password on Login Screen	display the Link to request a new password
Show LoginSideBar	Will display a sidebar on the right hand side. May contain a link to another website, news feeds.

3.2. System Requirements check

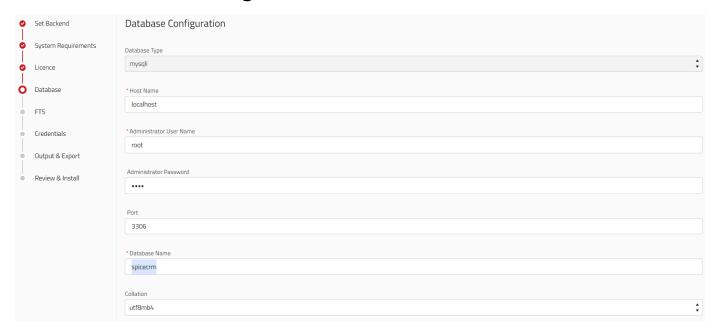
CHeck required php extensions and file access permissions



3.3. Licence



3.3. Database Settings

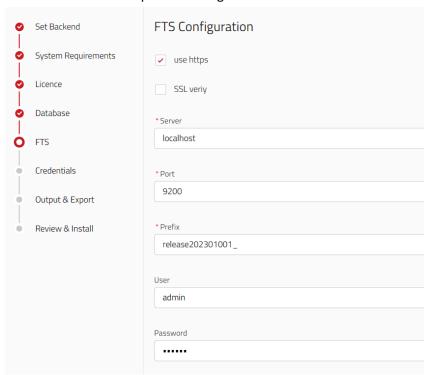


We recommend collation utf8mb4_unicode_ci and charset utf8mb4

With MySQL8 you may use utf8mb4_unicode_900_ai_ci

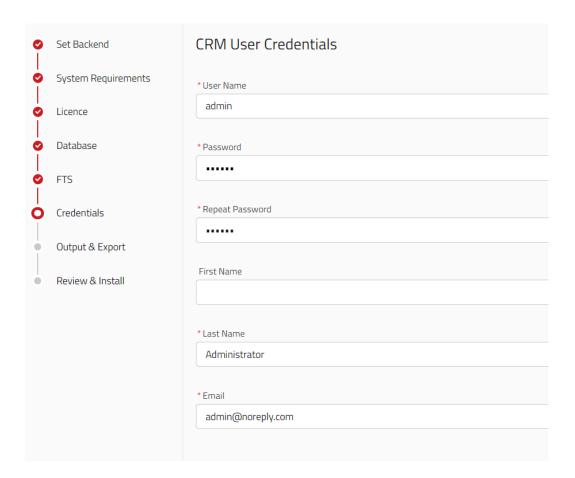
3.4. ElasticSearch Settings

elastic server shall be up and running



Field	description	Available since
Use https	Will set how to call the url weather with https or http Http is default	2021.01.001
Ssl verify	Adds SSL verify host and verify peer in curl options to connect to elasticsearch. False is default.	2023.01.001
Server	The name of the host localhost or any IP where you installed elastic	2016.01.01
Port	Default port is 9200	2016.01.01
Prefix	The prefix for your index names	2016.01.01
username	Optional username to connect to elasticsearch	2023.01.001
password	Optional password to connect to elasticsearch	

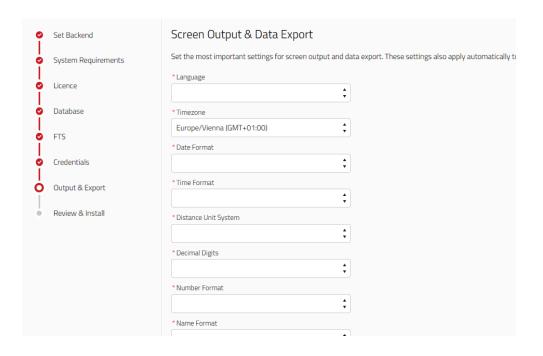
3.5. CRM Credentials for admin user



3.6. Screen Output & Data Export

Extended view since 2022.03.001

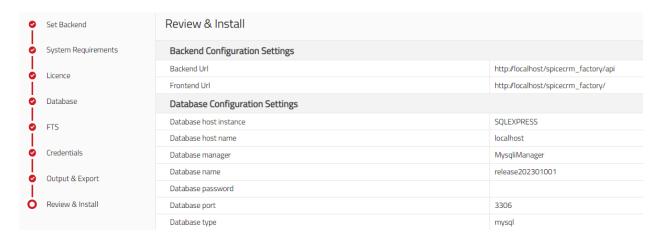
Set the most important settings for screen output and data export. These settings also apply automatically to each user as long as a user does not make any individual settings.



Field	description
Language	Select default language
Timezone	Set the default time zone
Date Format	Set default date format
Time Format	Set default time format
Distance Unit System	Set default measure units (metric imperial)
Decimal digits	Set default number of decimal digits
Number format	Set default number format
Name format	Set default format to display a contact name
Week start day	Set default value for the first day of the week in the calendar display
Week Days Count	Set default value for the number of days the calendar should display in "week" display
Export delimiter	Set default field separator for data export (, or ;)
Export charset	Set default value for export charset

3.7. Review Settings

You can review all you settings before proceeding with installation.

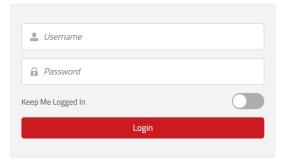


3.8. Scroll down and push "begin installation" button



Installation is successful when you are redirect to login screen





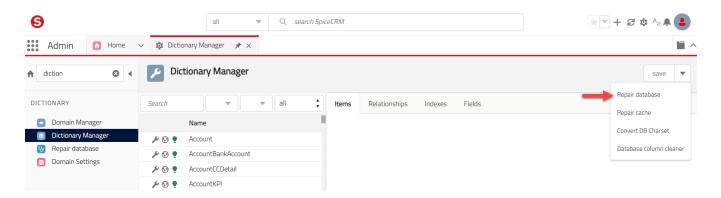
SpiceCRM -www.spicecrm.com
© 2015 - 2023 aac services k.s. All rights reserved.
version 2023.01.001.1679298593414

3.9. After install

Login as the admin user.

Timezone will be set automatically for the user.

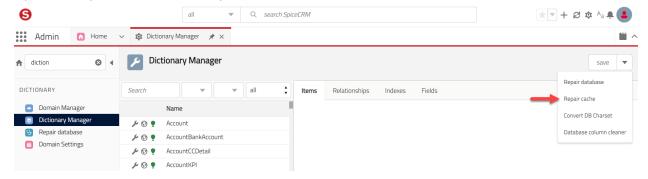
Go to the workbench, look for repair & perform a repair/rebuild **Dictionary Manager** & perform Repair database.



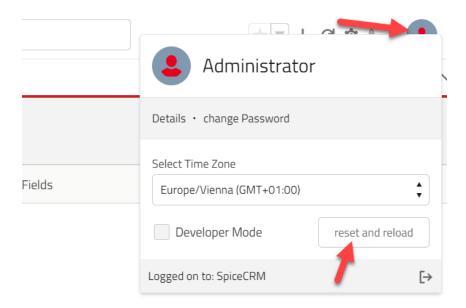
SQL queries to be processed will be found. Select all and execute.

Repeat until no more SQLs are found.

Then run a Repair cache. This will store all the dictionary configurations in database tables "sysdictionaryfields" & "relationships"



Run reset and reload in order to save all cached data in files (./api/cache per default). Alternatively you will find the button in the workbench > cache viewer



4. Trouble shooting

4.1. File permissions

Apache: default file permissions for SpiceCRM api

Web user (usually www-data on Apache linux server)

Needs recursive write permissions for:

- ./cache
- ./custom
- ./media
- ./upload

Needs write permissions in folder ./ (where CRM is installed)

If you want to restrict:

*.log files + config.php and config override.php shall be writeable

Standard Setup example

cd /var/www/html/spicecrm/api

chown -R www-data cache

chmod -R 0755 cache

cache, custom, media and upload folders are created during installation process. Permissions are set automatically unless server settings do not allow this action.

4.2. Check URL Rewriting

Check REST API availability

Call your CRM url in browser + /api/sysinfo

Example: http://localhost/myspicecrm/api/sysinfo

You shall get a json string as response looking like:

{"version":"2.0","extensions":{"google_api":{"version":"1.0","config":{"key":""}},"telecockpit":{"version":
"1.0","config":[]},"portal":{"version":"1.0","config":[]},"mailboxes":{"version":"1.0","config":[]},"projectm
anagement":{"version":"1.0","config":[]},"theme":{"version":"1.0","config":[]},"cardreader":{"version":"1
.0","config":[]},"core":{"version":"2.0","config":{"edit_mode":"custom"}},"gdpr":{"version":"1.0","config":
[]},"reporting":{"version":"1.0","config":[]},"login":{"version":"1.0","config":[]},"forgotPassword":{"version":"1.0","config":[]},"module":{"version":"2.0","config":[]},"mo
bile":{"version":"2.0","config":[]},"user":{"version":"1.0","config":[]},"utils":{"version":"1.0","config":[]},"
languages":{"available":[{"language_code":"en_us","language_name":"English
(US)","system_language":true,"communication_language":true},{"language_code":"de_DE","language_name":"Deutsch","system_language":true,"communication_language":true}],"default":"en_us"},"loginSid
ebarUrl":false,"ChangeRequestRequired":false,"sessionMaxLifetime":1440}

If not, please check php error log and spicercrm.log

5. Get additional configurations for UI

Since 202004001 following packages are downloaded automatically during installation process:

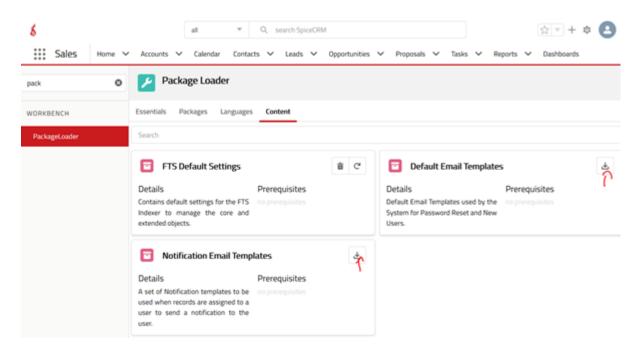
Core, FTS default settings, ACL essentials

5.1. Load default e-mail templates

Introduced in release 201901001

Go to administration settings

Search for package loader



Click appropriate download icon

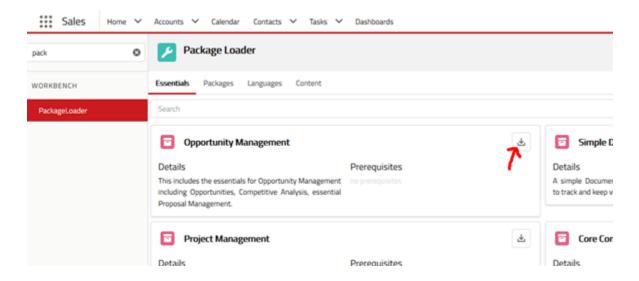
Perform the following actions after loading the package

- Dictionary Manager > repair database
- Dictionary Manager > repair cache
- Admin Profile > reset and reload

5.2. Load any other package you need

Example with Opportunity Management.

Load package Essentials > Opportunity Management



Perform the following actions after loading the package

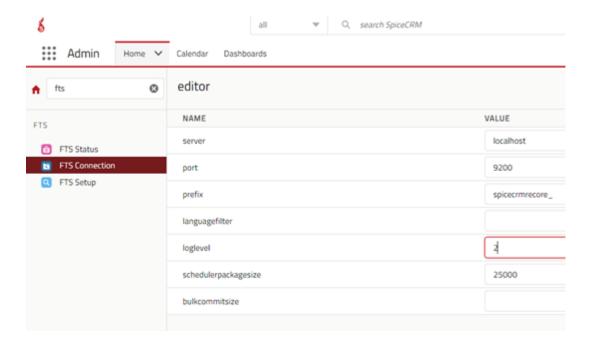
- Dictionary Manager > repair database
- Dictionary Manager > repair cache
- Admin Profile > reset and reload

Opportunity module will be available in the navigation bar after re-login.

6. Index Data

You now need elastic to index your data.

OPTIONAL: set debug level to 2 in workbench



Login to UI

Go to Workbench > FTS > Connection

Click button "initialize" and confirm. All indexes will be created. Check for any error messages in sysftslog table. Data itself will not be indexed yet.

6.1. Index data per cron job

Make sure crontab contains cron.php entry on server

#: crontab -e -u www-data

Login to backend and check command defined under Administration > Schedulers

Example:

* * * * * cd /var/www/html/myspicecrm/api; php -f cron.php > /dev/null 2>&1

Go to Workbench > Administration > Schedulers

Set Status= Active for Job "Spice Full Text Indexing"

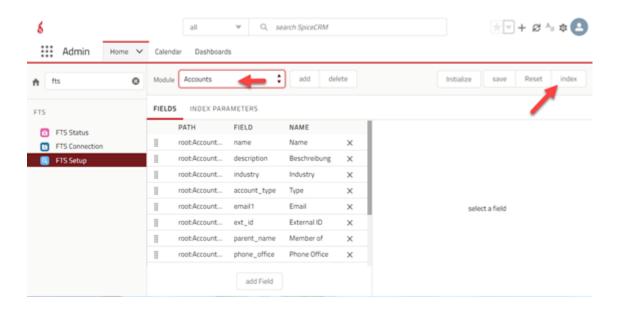
In case the job is not there, run following query in database

REPLACE INTO `schedulers` ('id`, `deleted`, `date_entered`, `date_modified`, `created_by`, `modified_user_id`, `name`, `job`, `date_time_start`, `date_time_end`, `job_interval`, `time_from`, `time_to`, `last_run`, `status`, `catch_up`) VALUES ('5cfc2d1b-23c3-3dc1-8713-5a213f9021fb', 0, '2017-12-01 11:39:52', '2018-07-04 12:48:30', '1', '1', 'Spice Full Text Indexing', 'function::fullTextIndex', '2017-12-01 11:45:00', NULL, '*/5::*::*::*', NULL, NULL, NULL, 'Inactive', 0);

6.2. Index data manually

You will have to repeat the steps for each module!

Select module and click index



6.3. Finishing

OPTIONAL: After data has been indexed set debug level back to 0 in workbench FTS Connection

7. Access Rights in SpiceCRM

With SpiceCRM 202004001 ACL concept is based on SpiceACL logic.

After creating users you will have to allocate them access rights so they may see and use modules like Accounts, Contacts, Opportunities...

You may create your own ACL profiles or download package ACL Examples

To allocate, edit or create ACL Profile go to workbench, look up for ACL, select ACL Profiles

To allocate a user to a profile, select profile, click tab "Users", then select the user.