

**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

# 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: 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.x

Extensions:

- XML Parsing => SimpleXML
- Soap => soap
- MB Strings Module => mbstring
- ZLIB Compression Module zlib
- ZIP Handling Module => zip
- PCRE Library => pcre
- IMAP Module => imap
- cURL Module => curl
- Sprite Support => gd
- Mail Parse => mailparse

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 not supported yet. Check your version: SHOW VARIABLES LIKE "%version%"

Elastic Search (supported 7.6 and higher – but not 8)

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

- 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.

Check php version	php -v
	or create a pripirito 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

#### How to Check requirements per console

#### Access to external APIs

ΑΡΙ	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 <a href="https://github.com/spicecrm/spicecrm.git">https://github.com/spicecrm/spicecrm.git</a> 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
- File permission will be checked during installation but they won't be corrected automatically

#### Installation process will create folder config/sites. Make sure that config/ is writable.

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

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

Installation process will start automatically.

Fill in fields step by step

### **3.1.** Backend Settings

•	Set Backend	Define Backend Connection	
÷	System Requirements	18	
	Licence	000	
	Database	*Name	
	FTS	spce	
	Fundamentalis	*Baland UR,	
	Credentials		
1	Language	No No	:
÷	Review and Install	developermode	
		165	:
		Show Laader Details	
		Tes	:
		Show Forget Password on Lagin Sowen	
		NS	:
			next

Field	technical name	description	example
Id	id	value to identify config when you use multiple config files	prod01
Name	display		My SpiceCRM
Backend URL	backendUrl	points to spicecrm backend	http://localhost/myspicecrm/api Please note the absence of a slash in the end!
use proxy	proxy	will use proxy if set to "yes"	yes
developermode	developerMode	will not ask for login on page reload if set to "yes"	no
Show Loader Details	loginProgressBar	display loading details when logging in	no
Show Forgot Password on Login Screen	allowForgotPass	display the click to request a password	yes

# **3.2.** System Requirements check

0	Set Backend	
ī		System Requirements
ò	System Requirements	√orl
1	Linewa	√ custom_dir
÷.,	Dotabase	✓ dotives
		✓ nostings
۰.	FTS	√ modules_dr
		✓ pore
1	Credentials	✓php
Ļ.	Language	√splad_dr
		√ enl_parar
÷	Review and Install	<i>√t</i> <sub>0</sub>

#### License

0	Set Backend			
þ	System Requirements	GWA AFFERD CENERAL PUBLIC LICENEE Version 3. 19 Rowember 2007 Copyright (2) 2007 Fire Software Foundation, Inc. fisf.org.Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. Preamble	1	
ò	Licence	The GNU Afters General Public License is a free, copyleft license for software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software. The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to share		
÷	Database	and change all version of a program—to make sure it remains free software for all its users. When we speak of free software, we are inferring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software land charge for them if you windth that use sortex survey and one race set at its was not its how that the tendem to software land on the software land charge for them if you windth that use sortex survey and one race set at its was not its that use its news to an elever of it in new fees sometimes, and that use know-one can do these thinks:		
÷	FTS	Developers that use our General Public Licenses protect your rights with two steps (1) assert copyright on the software, and [2] offer you this License which gives you legal permission to copy, distribute and/or modify the software.		
į	Credentials Language	A secondary benefit of defending all users' freedom is that improvements make in alternate versions of the program, if they receive widespread use, become available for other developers to incorporate. Many developers of here software are hantened and encouraged by the resulting cooperation. However, in the case of software used on network servers, this result may fail to come about. The DAU General Public License permits making modified version and letting the public access is not a server whom are releasing its source code to the public.		
	Review and Install	The GRU Affers General Public License is designed specifically to ensure that, in such cases, the modified source code becomes available to the community. It requires the operator of a network server to provide the source code of the modified version numing there to the source code of the modified version, on a publicly accessible server, gives the public access to the source code of the modified version.		
		An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.		
		The precise terms and conditions for copying, distribution and modification follow.		
		TERMS AND CONDITIONS		
		0. Definitions.		
		agree to Terms & Conditions		
				l
				ł

## **3.3.** Database Settings

Ŷ	Set Backend	Database Configuration
ę	System Requirements	
þ	Licence	Dotates Type .
ò	Database	*Host Name
- 1	FTS	
ł	Gredentials	* Administrator User Name
1.1	Language	
ł	Review and Install	Administrator Passaurd
		Database Arcress Daw
		Database Admin
		Pot
		*Deblee Name
		Collation
		v6

## 3.4. ElasticSearch Settings

elastic server shall be up and running

ę	Set Backend	ETS Configuration
o	System Requirements	
¢	Licence	*Sever
•	Database	
ò	FTS	
÷	Credentials	*Pada
÷	Language	Appear"
ł	Review and Install	

Port is usually 9200

Server: localhost or any IP where you installed elastic

## 3.5. CRM Credentials for admin user

Ŷ	Set Backend	CRM User Credentials
ò	System Requirements	
þ	Licence	*Use Nane admin
ò	Database	*Douard
ò	FTS	
ò	Credentials	* Repet Passard
	Language	
÷	Review and Imital	Fest Name
		15unane
		Administrator
		Loat
		Teor

### 3.6. Select Language to load

ę	Set Backend	Set Language
ò	System Requirements	ner mellondik
Å.	Licence .	Ovorea e Language
ĭ		English (25)
ò	Database	_
ę	FIS .	rest.
ģ	Credentials	
ò	Language	
÷	Review and Install	

### 3.7. Review Settings

# 3.8. Scroll down and push "begin installation" button



Installation is successful when you are redirect to login screen

S	
🚨 Username	
B Password	
Login	

In SpiceCRM it's e going on in your s to have the most home screen suiti

.

#### 🕲 Did you

In SpiceCRM it is SpiceCRM then g desired data using

#### 🚯 Did you

In SpiceCRM it's e correct tile to its amount in the bar

#### 🕲 Did you

SpiceCRM lets pr wherever they ar basically everywh into the desired h

...

## 3.9. After install

Login as the admin user, go to the workbench, look for repair & perform a repair/rebuild.

Repair Dictionary			
Repair database Check and repair the database	Execute		
🔑 Repair language Repair language	Execute		
Since 2022.02.001: summarizes all field definitions and saves 1 record for each field into table sysdictionaryfields. Table index definitionen are saved into table			
<ul> <li>Repair cache</li> <li>Refore 2022 02 001: summarizes all field definitions and saves them as files unter</li> </ul>	Execute		
./api/cache/modules.			
LBL_REPAIR_CUSTOM_CACHE LBL_REPAIR_CUSTOM_CACHE	Execute		
Reset server cache Resets the server cache	Execute		
DatabaseCompares the Vardefs with the columns in the database. Old columns can be deleted directly (with the data in it!)	Execute		
Convert DB Charset Convert the database or tables charset and collation	Execute		

#### Additional tables will be created.

Then run a Repair cache

# Repair Dictionary

ر	Repair database Check and repair the database		
ىر	🌶 Repair language Repair language		
ير	Repair cache Since 2022.02.001: summarizes all field definitions and saves 1 record for each sysdictionaryindices. All relationship definitions are saved into relationships table. Before 2022.02.001: summarizes all field definitions and saves them as files unter ./api/cache/modules.	Execute	
مر	LBL_REPAIR_CUSTOM_CACHE LBL_REPAIR_CUSTOM_CACHE	Execute	
ر	Reset server cache Resets the server cache           Execute		
مر	DatabaseCompares the Vardefs with the columns in the database. Old columns cancolumn cleanerbe deleted directly (with the data in it!)	Execute	
رعر	Convert DB Charset Convert the database or tables charset and collation	Execute	

If you are updating from an older version:

Run a repair custom cache

## Repair Dictionary

ر	Repair database Check and repair the database	Execute
ىكر	Repair language Repair language	Execute
ير	Repair cache Since 2022.02.001: summarizes all field definitions and saves 1 record for each sysdictionaryindices. All relationship definitions are saved into relationships table. Before 2022.02.001: summarizes all field definitions and saves them as files unter ./api/cache/modules.	Execute
x	LBL_REPAIR_CUSTOM_CACHE LBL_REPAIR_CUSTOM_CACHE	Execute
ىكر	Reset server cache Resets the server cache	Execute
محر	DatabaseCompares the Vardefs with the columns in the database. Old columns can be deleted directly (with the data in it!)	Execute
مر	Convert DB Charset Convert the database or tables charset and collation	Execute

This will move custom dropdown values defined in files to proper database entries as from release 2022.02.001 on.

## 3.10. Set default preferences



Define the system wide default preferences.

Important are timezone, date and time format, decimal separator and thousands separator.

It is recommended to set them all.

# 4. Trouble shooting

### 4.1. File permissions

Apache: default file permissions for SpiceCRM backend

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.

Apache: default file permissions for SpiceCRM frontend

Web user (usually www-data)

Needs write permissions when installing frontend for ./config/sites

### 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":{"versi on":"1.0","config":[]},"metadata":{"version":"1.0","config":[]},"module":{"version":"2.0","config":[]},"mo bile":{"version":"2.0","config":[]},"user":{"version":"1.0","config":[]},"utils":{"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\_n ame":"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

<b>\$</b> ∷ Sales Home ∨	all     ▼     Q. search SpiceCRM       Accounts     ✓     Calendar       Contacts     ✓     Leads       V     Calendar     Contacts       V     Calendar     Contacts   Proposals ✓   Tasks ✓   Reports   Dashboards
pack O	Package Loader
WORKBENCH	Essentials Packages Languages Content
PackageLoader	Search
	Image: FTS Default Settings       Image: Contains default settings for the FTS indexes to manage the core and extended objects.       Prerequisites indexes to manage the core and extended objects.       Default Email Templates used by the System for Password Reset and New Users.       Prerequisites       Image: Contains default settings for the FTS indexes to manage the core and extended objects.       Prerequisites       Image: Contains default settings for the FTS indexes to manage the core and indexes to manage the core and indexes to be rerequisites       Prerequisites       Image: Contains default settings indexes to be rerequisites       Image: Contains default settings indexes to be rerequisites <t< th=""></t<>
	used when records are assigned to a user to send a notification to the user.

Click appropriate download icon

Perform a repair database, then a repair cache.

## 5.2. Load any other package you need

Example with Opportunity Management.

Load package Essentials > Opportunity Management

Sales Home V	Accounts 🗸 Calendar Contacts 🗸 Tasks 🗸	Dashboards	
pack O	Package Loader		
WORKBENCH	Essentials Packages Languages Content		
PackageLoader	PackageLoader Search		
	Opportunity Management	*	🖻 Simple D
	Details P	Prerequisites	Details
	This includes the essentials for Opportunity Management including Opportunities, Competitive Analysis, essential Proposal Management.		A simple Document to track and keep v
	Project Management	4	🔁 Core Cor
	Details F	Prerequisites	Details

Please repair database and then repair cache.

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

8	all 💌 🔍 search SpiceCRM	
Admin Home 🗸	Calendar Dashboards	
fts 🛛 🕲	editor	
FTS	NAME	VALUE
FTS Status	server	localhost
TTS Connection	port	9200
FTS Setup	prefix	spicecrmrecore_
	languagefilter	
	loglevel	4
	schedulerpackagesize	25000
	bulkcommitsize	

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

<b>á</b> Ⅲ Admin Home ❤	all ▼ Q. search SpiceCRM ★ + & Aa ¢			* = + \$\$ ^a \$ 🕹	
fts O	Module Accounts	-	add de	ete	Initialize save Reset index
FTS	FIELDS INDEX	PARAMETERS			
FTS Status	PATH	FIELD	NAME		
FTS Connection	i root:Accour	nt name	Name	×	
ETS Setup	i root:Accour	nt description	Beschreibung	×	
	root:Accour	nt industry	Industry	×	
	root:Accour	nt account_type	Туре	×	
	root.Accour	nt email1	Email	×	select a field
	root.Accour	nt ext_id	External ID	×	
	root.Accour	nt parent_name	Member of	×	
	i root.Accour	nt phone_office	Phone Office	×	
		add Field			

### 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.