

Installation Guide

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1. Document History

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Simplified load for UI configuration	1.0.6	06.03.2019	2019.02.001	Valérie Maret
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Added imap to required extensions, recommendation charset and collation for MySQL	2.0.6	2.10.2023	2023.01.002	Valérie Maret

New Installation Process with	2.1	21.5.2024	2024.01.001	Valérie Maret
SpiceCRM version 2024.01.001				

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 8.0- PHP 8.2

PHP 8.0 is minimum requirement since 2024.01.001

Required extensions:

- BCMath => bcmath (since 2024.01.001)
- 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

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

(default	
configurations)	

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. <u>http://localhost/myspicecrm</u> in our example.

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

3.1. Backend Settings

0	Set Backend	Welcome to SpiceCRM Set Backend
	System	
- Ť	Requirements	* Name
		SpiceCRM
1	Licence	* Show Exercise Decrement on Loois Genon
•	Database	No
•	FTS	* Show LoginSidebar
		No
1	Credentials	
•	Output & Export	next
•	Review & Install	

Field	description
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

0	Set Backend	System Requirements	
	System	Status	Extension
ĭ	Requirements	\checkmark	Cache directory
	Licence	\checkmark	Curl
		\checkmark	Custom directory
•	Database	\checkmark	Database
	FTS	\checkmark	Databasedrivers
		\checkmark	Gd
•	Credentials	\checkmark	Mailparse
	 Output & Export 	\checkmark	Mbstrings
Ĭ		\checkmark	Media files directory
•	Review & Install	\checkmark	Modules directory
		\checkmark	Pcre
		\checkmark	Php
		\checkmark	Upload directory
		\checkmark	Xml parser
		\checkmark	Zip

3.3. Licence

0	Set Backend	License Agreement
0	System Requirements	If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
0	Licence	To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
•	Database	one line to give the programs name and a brief idea of what it does Copyright (C) 2023 SpiceCRM
•	FTS	This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.
•	Credentials	This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Affero General Public License for more details.
•	Output & Export	You should have received a copy of the GNU Affero General Public License along with this program. If not, see gnu.org/licenses.
	Review & Install	Also add information on how to contact you by electronic and paper mail.
		If your software can interact with users remotely through a computer network, you should also make sure that it provides a way for users to get its source. For example, if your program is a web application, its interface could display a "Source" link that leads users to an archive of the code. There are many ways you could offer source, and different solutions will be better for different programs; see section 13 for the specific requirements.
		You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU AGPL, see gnu.org/licenses.
		✓ agree to Terms & Conditions

3.3. Database Settings

0	Set Backend	Database Configuration	
0	System Requirements	Database Type	
0	Licence	mysqli	÷
o	Database	* Host Name	
•	FTS	localhost	
•	Credentials	* Administrator User Name	
•	Output & Export	root	
	Review & Install	Administrator Password	
		Port	
		3306	
		* Database Name	
		spicecrm	
		Collation	
		utf8mb4	\$

We recommend collation utf8mb4_general_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

0	Set Backend	FTS Configuration
0	System Requirements	✓ use https
0	Licence	SSL veriy
0	Database	* Server
ò	FTS	localhost
•	Credentials	* Port
•	Output & Export	9200
•	Review & Install	* Prefix
		release202301001_
		User
		admin
		Password

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	2023.01.001

3.5. CRM Credentials for admin user

0	Set Backend	CRM User Credentials	
0	System Requirements	* User Name	
0	Licence	admin	
0	Database	* Password	
0	FTS	CRM User Credentials User Name admin Password Repeat Password First Name Last Name Administrator Email admin@noreply.com	
0	Credentials	* Repeat Password	
•	Output & Export		
•	Review & Install	First Name	
		* Last Name	
		Administrator	
		* Email	
		admin@noreply.com	

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.

0	Set Backend	Screen Output & Data Export
0	System Requirements	Set the most important settings for screen output and data export. These settings also apply automatically to
0	Licence	*Language
	Database	* Timezone
0	FTS	Europe/Vienna (GMT+01:00)
e	Credentials	
6	Output & Export	Time Format
•	Review & Install	Distance Unit System
		* Decimal Digits
		* Number Format
		* Name Format

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 your settings before proceeding with installation.

0	Set Backend	Review & Install				
0	System Requirements	nts Backend Configuration Settings				
	Licence	Backend Url	http://localhost/spicecrm_factory/api			
Ť		Frontend Url	http://localhost/spicecrm_factory/			
Ý	Database	Database Configuration Settings				
0	FTS	Database host instance	SQLEXPRESS			
Ĭ		Database host name	localhost			
0	Credentials	Database manager	MysqliManager			
	Output & Export	Database name	release202301001			
Ť		Database password				
Ó	Review & Install	Database port	3306			
		Database type	mysql			

3.8. Scroll down and push "begin installation" button

Username	admin		
Output & Export Settings			
Language	en_us		
Date Format	d.m.Y		
Distance Unit System	METRIC		
Export Charset	UTF-8		
Export Delimiter	4		
Name Format	sfl		
Time Format	Hi		
Timezone	Europe/Vienna		
Week Days Count	5		
Week Start Day	Monday		
		back	Begin Installation

Installation is successful when you are redirected to the login screen

	à	
	Ð	
💄 admin		
â •••••		
Angemeldet bleiben		
	Anmelden	

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3.9. After install

Login as the admin user.

Timezone will be set automatically for the user.

Go to the workbench: the click is now under the profile panel of the admin user

Administrator	4
🏚 · 🖂 · 🛧 · 🥎	C₁ • ☎
select Language	
en_us	+
Select Time Zone	
Europe/Vienna (GMT+02:00)	*
	[→

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



The repair modal window pops up.

in			repair all	
on		Name	SQL	Î
۲		accounts_contacts		
AI 蒙		accounts_users		
or 📚	١.	address_book		
ict 📚		audit_template		
et 📚		authentication_services		
۲		calls_contacts		
۲		calls_leads		
۲		calls_users		
۲	١.	campaigntask_targets_status		
۲	()))	config		
۲		contacts_contacts		
۲		contacts_users		►
۲		cron_remove_documents		
۲	()))	currencies		
۲		distributionlists_users		
۲		documents_accounts		÷
*	x 🔽	execute SQLs	0/284	close

Set execute SQLs and push the "play" button.

SQL queries to be processed will be found and executed.

Follow the progress on screen. In version 2024.01.001 it might seem a little long. Future versions will have less tables to create.

		repair all	
	Name	SQL	î
0	accounts_contacts	CREATE TABLE accounts_contacts ('id' varchar(36) NOT NULL ,'contact_id' varchar(36) NULL ,'account_id' varchar(36) NULL ,'date_modified' datetime NULL ,'deleted' bool D	EFAUL 🗊
0	accounts_users	CREATE TABLE accounts_users ('id' varchar(36) NOT NULL, 'user_id' varchar(36) NULL, 'account_id' varchar(36) NULL, 'user_role' varchar(36) NULL, 'date_modified' datetime	e NUL 🗐
0 (address_book	CREATE TABLE address_book ('assigned_user_id' char(36) NOT NULL ,'bean' varchar(50) NULL ,'bean_id' char(36) NOT NULL , KEY ab_user_bean_idx ('assigned_user_id', 't	oean`)) 🗐
0	audit_template		
8	authentication_services		
\$	calls_contacts		
\$	i calls_leads		
\$ (calls_users		
\$	campaigntask_targets_status		
٠	config		
\$ (i contacts_contacts		
\$ (contacts_users		
\$	cron_remove_documents		
۵	currencies		
\$ (i distributionlists_users		
\$	documents_accounts		
\$	🗸 execute SQLs 🔳 🖣	5/284 Errors Altered definitions	close

After all SQLs have been executed, close the window.

Go to the package loader and load the following packages

- Essentials > CORE package: contains all the definitions for the basic modules like Accounts, Contacts and Activities

- Essentials > Email Handling: includes the basics for Email Management: send e-mails via CRM or process incoming emails for specific mailboxes.
- Content > FTS default settings: contains all the basic index definitions for Accounts, Contacts and Activities
- Content > ACL essentials: contains the basic configuration for the administration of access permissions.

We recommend newcomers to download the Content > ACL examples Package. It contains ACL profiles and pre-defined access permissions.

- Content > Default Scheduler Jobs: contains basic jobs like FTS bulk indexing

After that we recommend to run a repair database again

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 writable

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 the 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":{"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":[]},"mo bile":{"version":"2.0","config":[]},"user":{"version":"1.0","config":[]},"utils":{"version":"1.0","config":[]},"mo bile":{"version":"2.0","config":[]},"user":{"version":"1.0","config":[]},"utils":{"version":"1.0","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 the php error log and the api/spicercrm.log

5. Get additional configurations for UI

5.1. Load default e-mail templates

Go to the workbench and search for the package loader

9		all 💌	Q. search SpiceCRM				* • + ^a 🜲 🖸
Admin 👩 Home	V 🏚 Package Loader 🖈 >	<					***
n package	Package Loader						C
SYSTEM	Essentials Packages Lan	guages Content					
🖻 Package Loader	mail						
	Default Email Temp Details Default Email Templates use Password Reset and New Users	plates ed by the System fo	Prerequisites ^{or} 🗃 emailhandling	*	Notification Email Templates Details A set of Notification templates to be records are assigned to a user to send a no the user.	vsed when The analihandling	~ *

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.

6 * • + ^a **#** all ▼ Q search SpiceCRM Admin 👩 Home 🗸 🏚 Package Loader 🖈 🗙 🛛 🖌 📂 Package Loader package Essentials Packages Languages Content SYSTEM 📴 🛛 Package Loader Search Opportunity Management ≁ 宣 Simple Document Management ₹ Details Prerequisites Details Prerequisites This includes the essentials for Opportunity no prerequisites Management including Opportunities, Competitive Analysis, essential Proposal Management. A simple Document Management functionality no p allowing to track and keep versions of Documents. Project Management Core Configuration G Details Prerequisites The Project Management includes the definition of projectmanager Projects, structuring them in multi-level WBS The Core Configuration covers the basic CRM Functions. This is required so the CRM Systems will be operable at all.

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 right away

5.3. Trouble shooting

In case the machine ran into a timeout, not all repair tasks might have been executed. Run a repair database again.

You also may try to reset the application cache. The reload button is now under the admin user profile pop over

Administrator	4
* • • *	G · K
select Language	
en_us	÷
Select Time Zone	
Europe/Vienna (GMT+02:00)	*
	[

6. Index Data

You now need elastic to index your data.

Go to Workbench > FTS Status

0	all 💌	Q search SpiceCRM			★ ▼ + ^A a ♣ 🕑
Admin 👩 Home 🗸 🏟 FT	5 Status 📌 🗙				<u>ا</u> ا
fts 🛛 🖌 FTS Sta	atus				Initialize 🔓 C
ATTRIBU	UTE		VALUE		
FTS Version			7.17.0		
FTS Status Docume	nts		0 /0		
FTS Connection Size			0/0		
Q FTS Setup					
Index Deta	ils				
INDEX	DOCUMENTS	STORED	UNINDEXED	SIZE	BLOCKED

Click button "initialize" and confirm. All indexes will be created (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 > manage jobs

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 the module and click index

9	all	▼ Q search 5µ	piceCRM		* - + ^a 🔁
Admin 👩 Home	✓ tật FTS Setup ★ ×				₩ ^
fts 🔕 🕻	Module Accounts	add delete			save Reset index
FTS	FIELDS INDEX PARAMETERS				· · · · ·
ETS Status	PATH	FIELD	NAME		
FTS Connection	ii root:Accounts::field:name	name	Name	×	
FTS Setup	ii root:Accounts::field:descriptio	on description	Beschreibung	×	
	ii root:Accounts::field:industry	industry	Industry	×	
	ii root:Accounts::field:account_	account_type	Type	×	
	ii root:Accounts::field:email1	email1	Email	×	
	# root:Accounts::field:ext_id	ext_id	External ID	×	
	ii root:Accounts::field:parent_n	parent_name	Member of	×	
	ii root:Accounts::field:phone_o	phone_office	Phone Office	×	
	ii root:Accounts::field:billing_a.	billing_address_city	City	×	select a field
	* root-Accounte-field-billing a	billing address country	Country	~	

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.

We recommend Newcomers to load the ACL examples package.