

Contents

| | |
|---|---|
| 1. Setup:Installation Manual/Services and system configuration/Parsoid | 2 |
| 2. Setup:Installation Manual/Advanced/Folder structure under Windows | 6 |
| 3. Setup:Installation Manual/Services and system configuration/Node.js | 7 |
| 4. Setup:Installation Manual/System Configuration/Environment Variables | 9 |

Setup:Installation Manual/Services and system configuration /Parsoid

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The installation of Parsoid requires the [installation of Node.js](#).

The installation can be verified by

```
$ nodejs --version
$ node -v
$ npm -v
```

Contents

| | |
|--|-------------------|
| 1 Installation and Configuration | 3 |
| 1.1 Linux | 3 |
| 1.1.1 Install Parsoid | 3 |
| 1.1.2 Configuring Parsoid | 3 |
| 1.1.3 Start Parsoid manually | 4 |
| 1.1.4 Start Parsoid as Daemon | 4 |
| 1.2 Windows | 5 |
| 1.2.1 Creating the configuration file | 5 |
| 2 Activating VisualEditor in BlueSpice | 5 |

Installation and Configuration

Linux

Install Parsoid

There is no installation from package sources of the distribution. Parsoid is installed under */usr/local*.

For this we move to

```
$ cd /usr/local
```

Getting Parsoid:

```
$ git clone --depth 1 --branch v0.10.0 https://gerrit.wikimedia.org/r/p/mediawiki/services/parsoid parsoid
```

Installing Parsoid:

```
$ cd parsoid  
$ npm install
```

Checking the installation:

```
$ npm test
```

Default configuration:

```
$ cp config.example.yaml config.yaml
```

Configuring Parsoid

Opening the file config.yaml:

```
$ vi /usr/local/parsoid/config.yaml
```

For the basic installation of Parsoid it is sufficient to adjust the URL to the MediaWiki api (**uri:**) and the domain (**domain:**). We strongly recommend never to work with "localhost" but with the actual vhost alias, with which the MediaWiki can also be reached from outside. This avoids additional Apache configurations.



When using the alias, it is essential to store it with a loopback IP (127.0.0.1) in /etc/hosts! Please also make sure that the web server does not bind to the external IP.

Start Parsoid manually

Parsoid can be started manually with console output:

```
$ npm start
```

Start Parsoid as Daemon

There are several ways to do this. Most likely pm2 is the best choice, because it combines several applications/services in nodejs.

Installation of pm2:

```
$ npm install -g pm2
```

Starting Parsoid as Daemon via pm2:

```
$ pm2 start /usr/local/parsoid/bin/server.js
```

Save the pm2 process list - this will add Parsoid to the pm2 services:

```
$ pm2 save
```

pm2 in den System-Autostart legen:

```
# Render startup-script for a specific platform, the [platform] could be one of:  
#   ubuntu|centos|redhat|gentoo|systemd|darwin|amazon  
$ pm2 startup [platform]
```

Windows

Open a console with administrator permissions and change to the installation directory of Node.js (if you followed our recommendations for the [folder structure under Windows](#) `|bluespice|bin|nodejs`). Execute the command `npm install parsoid` there.

The configuration of Parsoid under Windows is almost identical to Parsoid under Linux. In this manual, however, there is a distinction between the corresponding articles due to the different paths in the file system. Here, too, we adhere to the above folder structure and assume the paths in this documentation accordingly.

Creating the configuration file

Create the file `|bluespice|etc|parsoid.yaml`. Copy the following content into it:

```
worker_heartbeat_timeout: 300000

logging:
  level: info

services:
  # Enter the absolute path of the index.js in "module".
  # in the subfolder "lib" of the parsoid module of nodejs
  # The first "/" represents the top level of your drive.
  # Don't use "\" but "/"
  - module: /bluespice/bin/nodejs/node_modules/parsoid/lib/index.js
    entrypoint: apiServiceWorker
    conf:
      mwApis:
        # For "uri", enter the URL where you want the api.php of your MediaWiki
        # installation. This must not be a public address, you can use it with
        # "localhost", provided that your web server is configured accordingly.
        - uri: 'http://localhost/api.php'
          domain: 'bluespice'
```

The two relevant changes that you have to adjust yourself ("module" and "uri") are explained in the corresponding comment above.

Save and close the file.

Activating VisualEditor in BlueSpice

Change to the directory `<installpath-bluespice>/settings.d`. Open the files

020-BlueSpiceVisualEditorConnector.php and

020-VisualEditor.php

in a text editor.

In the second line you will find a code that deactivates both extensions:

```
return; // Disabled. Needs Parsoid
```

Add a comment character (**#**) to the beginning of this line or delete this line completely, save the two files and exit them again.

Now open a command line and change to the folder *<installpath-bluespice>*. Execute the following command there:

```
php maintenance/update.php (Linux)
php maintenance\update.php (Windows))
```



On Windows, make sure that the [environment variables](#) are set correctly to access the php command.



Note that under Linux, after you run update.php, you must re-customize the [file system permissions](#).

As soon as the script is completed with the message "Done", the VisualEditor is successfully activated.

Folder structure under Windows

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Contents

| | |
|--|---|
| 1 Preface | 7 |
| 2 Folder structure | 7 |
| 3 Folder names for program installations | 7 |

Preface

Microsoft Windows distributes program installations and configurations, the Webroot under IIS etc. to various folders in the file system. Since BlueSpice is a web application based on PHP, it is not always easy to use the Windows default system paths in the application.

For this reason, we recommend creating your own folder structure for BlueSpice, all related data and additional program installations.

In the following we describe a proven folder structure. This is recommended by us.

Folder structure

In the following, "`\bluespice\`" is defined as the base directory for the installation in the root directory of the drive (e.g. `C:\bluespice` or `D:\bluespice`).

The folder structure is based on Unix operating systems:

```
bluespice/
├── backup/           # for backups
├── bin/              # for additional programs and own scripts
├── etc/              # for configuration files
├── opt/
│   └── bluespice/
│       ├── cache/    # BlueSpice cache
│       ├── images/   # File uploads
│       └── widgets/   # Rendered widgets
├── tmp/              # Temporary files
└── var/
    ├── log/          # LOG files of the web server
    └── www/           # Actual BlueSpice application
```

Folder names for program installations

When installing programs in `\bluespice\`, please make sure to install these programs in subfolders that do not contain special characters and/or spaces.

Installation of Node.js

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Contents

| | |
|--|-------------------|
| 1 System requirements | 9 |
| 2 Download Node.js for Windows | 9 |

| | | |
|---|-------------------------|---|
| 3 | Installation of Node.js | 9 |
|---|-------------------------|---|

System requirements

The installation of Node.js under Windows can be done via [Git](#). Alternatively, the installation package can be obtained directly from [NodeJS](#). During the installation you have to make sure to install the Node Packet Manager NPM as well.

Under Debian/Ubuntu Nodejs and NPM can be installed as follows:

```
apt install npm  
npm -g install npm@latest
```

Download Node.js for Windows

Download the current package of Node.js from the [Project website](#). Please use the 64bit version if possible.

Installation of Node.js

Install Node.js into the `|bluespice|bin|nodejs` folder using the default settings of the installer. When selecting this folder, be sure to pay attention to our instructions on the page [Folder Structure under Windows](#), which we apply in this complete installation manual.

Open a console with administrator rights and change to the installation directory of NodeJS (usually C:\Program Files (x86)\nodejs). Execute the following commands there:

```
npm install --global --production windows-build-tools  
npm -g install npm@latest
```

Setup:Installation Manual/System Configuration/Environment Variables

Redirect to:

- [Setup:Installation Guide/Services and system configuration/Environment Variables](#)