

Technik/Installationsanleitungen/Installation BS unter Ubuntu22.04

Diese Anleitung gilt für **Debian Buster**

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Create Folder and set Folder-Variable

```
mkdir -p /path/to/your/wiki
```

```
BS_DATA_DIR=/path/to/your/wiki
```

Copy Codebase to \$BS_DATA_DIR

Update and Install:

```
apt-get update && apt-get -y upgrade && apt-get -y dist-upgrade && apt-get clean
```

```
apt-get -y install apache2 apt-transport-https apt-utils bzip2 composer cron curl dvipng g++ gcc git-core gnupg gnupg1 gnupg2 imagemagick jetty9 make mariadb-client mariadb-server memcached ocaml-nox make mariadb-client mariadb-server memcached ocaml-nox php-pear poppler-utils python3 screen sudo unzip vim wget librsvg2-bin
```

INSTALL MOST RECENT PHP-UTILS:

```
RECENT=8.1 #Change Value so it fits/suits for your System
```

```
apt-get -y install php php-cli php-common php-curl php-gd php-intl php-ldap php-mbstring php-mysql php8.1-opcache php-sqlite3 php-xml php8.1-zip php-fpm
```

DONT USE THIS ATM:

```
apt-get -y install php$RECENT php$RECENT-cli php$RECENT-common php$RECENT-curl php$RECENT-gd php$RECENT-intl php$RECENT-ldap php$RECENT-mbstring php$RECENT-mysql php$RECENT-opcache php$RECENT-sqlite php$RECENT-xml php$RECENT-zip php$RECENT-fpm
```

Optional-Installation Kerberos Tools:

```
apt-get -y install krb5-config krb5-locales krb5-user libapache2-mod-auth-gssapi
```

See also: [Technik/Kerberos](#)

INSTALL PEAR MAIL

```
pear channel-update pear.php.net; pear install --alldeps mail net_smtp
```

INSTALL Opensearch

```
sudo apt-get update && sudo apt-get -y install lsb-release ca-certificates
curl gnupg2
curl -o- https://artifacts.opensearch.org/publickeys/opensearch.gpg | sudo
gpg --dearmor --batch --yes -o /usr/share/keyrings/opensearch-keyring
echo "deb [signed-by=/usr/share/keyrings/opensearch-keyring]
https://artifacts.opensearch.org/releases/bundle/opensearch/2.x/apt stable
main" | sudo tee /etc/apt/sources.list.d/opensearch-2.x.list
sudo apt-get update
env OPENSEARCH_INITIAL_ADMIN_PASSWORD=HallowWelt11 apt install opensearch
systemctl enable opensearch
/usr/share/opensearch/bin/opensearch-plugin install ingest-attachment
apt-mark hold opensearch
mv /etc/opensearch/opensearch.yml /etc/opensearch/opensearch.bak
vim /etc/opensearch/opensearch.yml
```

opensearch.yml:

```
path.data: /var/lib/opensearch
path.logs: /var/log/opensearch
network.host: 127.0.0.1
discovery.type: single-node
plugins.security.disabled: true
plugins.security.ssl.http.enabled: false
```

set Variable in a settings.d-File:

```
$GLOBALS['bsgESBackendTransport'] = "http";
```

```
systemctl restart opensearch
```

Install Nodejs

```
curl -sL https://deb.nodesource.com/setup_18.x -o /tmp/setup_nodejs
sed -i 's/apt-key add/APT_KEY_DONT_WARN_ON_DANGEROUS_USAGE=1 apt-key add/g'
/tmp/setup_nodejs
bash /tmp/setup_nodejs
rm /tmp/setup_nodejs
apt-get update
apt-get -y install nodejs
apt-get clean
```

Install Mathoid

```
cd /opt
wget https://buildservice.bluespice.com/webservices/mathoid.zip
unzip mathoid.zip
```

INSTALL GHOSTSCRIPT

DONT DO THAT. JUST FOR DoCUMENTATION

```
cd /tmp
wget --no-check-certificate https://buildservice.bluespice.com/fspinar
/ghostscript-9.56.1-linux-x86_64.tgz
tar xzf ghostscript-9.56.1-linux-x86_64.tgz
cp /tmp/ghostscript-9.56.1-linux-x86_64/gs-9561-linux-x86_64 /usr/local/bin/gs
chmod +x /usr/local/bin/gs
```

Install Phantomjs

```
cd /tmp
wget --no-check-certificate https://buildservice.bluespice.com/fspinar
/phantomjs-2.1.1-linux-x86_64.tar.bz2
tar xjf phantomjs-2.1.1-linux-x86_64.tar.bz2
mv /tmp/phantomjs-2.1.1-linux-x86_64/bin/phantomjs /usr/local/bin
chmod +x /usr/local/bin/phantomjs
```

Optional-INSTALL SIMPLESAMPLPHP

```
cd /tmp
wget --no-check-certificate -O simplesamphp.tar.gz https://simplesamphp.org
/download?latest
tar xzf simplesamphp.tar.gz
rm -f /tmp/simplesamphp.tar.gz
mv /tmp/simplesamphp* /opt/simplesamphp
sed -i "s/'default-sp' => \[/'default-sp' => \[ 'NameIDPolicy' => false,/g"
/opt/simplesamphp/config/authsources.php
rm -rf /opt/simplesamphp/config/config.php /opt/simplesamphp/metadata
chown -R www-data:www-data /opt/simplesamphp/www
```

CONFIGURE APACHE2

```
rm /etc/apache2/sites-available/*
rm /etc/apache2/sites-enabled/*
mkdir /etc/apache2/ssl
a2enmod rewrite
a2enmod ssl
```

For example configuration see [Technik/Apache-Konfiguration Technik/HTTP2](#)

```
a2ensite YOURCONFIGFILE
a2enmod rewrite
a2enmod proxy_fcgi setenvif http2
a2enconf php$RECENT-fpm
a2dismod php$RECENT
a2dismod mpm_prefork
a2enmod mpm_event
systemctl restart apache2.service
```

CONFIGURE PHP

```
sed -i 's/^max_execution_time.*$/max_execution_time = 600/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^post_max_size.*$/post_max_size = 128M/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^upload_max_filesize.*$/upload_max_filesize = 128M/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^;date.timezone.*$/date.timezone = Europe\Berlin/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^memory_limit.*$/memory_limit = 512M/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^;opcache.enable=.*$/opcache.enable=0n/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^;opcache.enable_cli=.*$/opcache.enable_cli=0/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^;opcache.memory_consumption.*$/opcache.memory_consumption=512/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^;opcache.max_accelerated_files.*$/opcache.max_accelerated_files=1000000/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^;opcache.validate_timestamps.*$/opcache.validate_timestamps=1/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^;opcache.revalidate_freq.*$/opcache.revalidate_freq=2/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^;opcache.optimization_level.*$/opcache.optimization_level=0x7FFF9FFF/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^;opcache.blacklist_filename.*$/opcache.blacklist_filename=\etc\php\opcache.blacklist/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^zlib.output_compression.*$/zlib.output_compression=0n/g' /etc/php/$RECENT/fpm/php.ini
sed -i 's/^;zlib.output_compression_level.*$/zlib.output_compression_level=9/g' /etc/php/$RECENT/fpm/php.ini
```

CONFIGURE OPCACHE BLACKLIST

```
echo "${BS_DATA_DIR}/w/extensions/BlueSpiceFoundation/config/*" > /etc/php/opcache.blacklist
```

CONFIGURE MEMCACHED

```
sed -i 's/-m 64/-m 512/g' /etc/memcached.conf
```

CONFIGURE JETTY

```
echo "JAVA_OPTIONS=\"-Xms512m -Xmx1024m -Djetty.host=127.0.0.1\"" >> /etc/default/jetty9
```

```
wget https://buildservice.bluespice.com/fspinar/BShtml2PDF.war .
cp BShtml2PDF.war /var/lib/jetty9/webapps/
```

CONFIGURE MYSQL

```
mysql -u root -p
```

```
GRANT ALL ON *.* to 'bluespice'@'127.0.0.1' identified by 'password';  
FLUSH PRIVILEGES;  
QUIT;
```

CREATE FOLDERS

```
mkdir ${BS_DATA_DIR}/w/extensions/BlueSpiceFoundation/config;  
mkdir ${BS_DATA_DIR}/w/extensions/BlueSpiceFoundation/data;
```

ADD SETTINGS.D

Attention! some of these depend on the Customers System and Wishes. Please get sure you know what you do.

```
cd $BS_DATA_DIR/settings.d  
#000-ArticlePath  
wget https://raw.githubusercontent.com/hallowelt/bluespice-tools/master  
/default-configs/settings.d/000-ArticlePath.php  
#000-DisableLdapSSLCertificateCheck  
wget https://raw.githubusercontent.com/hallowelt/bluespice-tools/master  
/default-configs/settings.d/000-DisableLdapSSLCertificateCheck.php  
#005-DisablePasswordChange  
wget https://raw.githubusercontent.com/hallowelt/bluespice-tools/master  
/default-configs/settings.d/005-DisablePasswordChange.php  
#005-Inkscape  
wget https://raw.githubusercontent.com/hallowelt/bluespice-tools/master  
/default-configs/settings.d/005-Inkscape.php  
#005-Memcached  
wget https://raw.githubusercontent.com/hallowelt/bluespice-tools/master  
/default-configs/settings.d/005-Memcached.php  
#005-PDFHandler  
wget https://raw.githubusercontent.com/hallowelt/bluespice-tools/master  
/default-configs/settings.d/005-PdfHandler.php
```

```
##005-Inkscape.php  
<?php  
  
# Old "version". Changed with Inkscape >= 1.x  
$wgSVGConverters = array( 'inkscape' => '/usr/bin/inkscape' -z -w $width -f  
$input -e $output' );  
  
$wgSVGConverters = [ 'inkscape' => '"E:\bluespice\bin\inkscape-1.1  
\bin\inkscape.exe" --export-filename $output -w $width $input' ];  
$wgSVGConverter = 'inkscape';  
$wgSVGConverters = [ 'rsvg' => '$path/rsvg-convert -w $width -h $height -o  
$output $input' ];  
$wgSVGConverter = 'rsvg';  
$wgMaxShellMemory = 4096000;  
$wgSVGMaxSize = 2048;
```

```
##060-BlueSpiceArticlePreviewCapture.php
<?php
wfLoadExtension( 'BlueSpiceArticlePreviewCapture' );
$GLOBALS['bsgArticlePreviewCapturePhantomJSEscapeShellCommand'] = false;
$GLOBALS['bsgArticlePreviewCapturePhantomJSExecutable'] = "OPENSSE_CONF=/etc
/ssl/ /usr/local/bin/phantomjs";
$GLOBALS['bsgArticlePreviewCapturePhantomJSBackend'] = "native-shell-exec";
```

CHANGE USER RIGHTS

```
find $BS_DATA_DIR -exec chown -R www-data:root {} \;
find $BS_DATA_DIR -type d -exec chmod -R 755 {} \;
find $BS_DATA_DIR -type f -exec chmod -R 644 {} \;
```

Create Scripts

setWikiPerm (be aware of the User): [Technik/Scripte/setWikiPerm](#)

Backup : [Technik/Scripte/Backup whole Wiki](#)

Run Installation

Install

```
php maintenance/install.php --dbserver=127.0.0.1 --dbuser=bluespice --
dbname=bluespice --dbpass="password" --scriptpath="/w" --pass="HalloWelt11" --
lang="de" --server="http://WIKIURL" WIKINAME WikiSysop
```

Run Update:

```
php $BS_DATA_DIR/maintenance/update.php --quick
```

REINDEX

```
php $BS_DATA_DIR/extensions/BlueSpiceExtendedSearch/maintenance/initBackends.
php --quick
php $BS_DATA_DIR/extensions/BlueSpiceExtendedSearch/maintenance/rebuildIndex.
php --quick
php $BS_DATA_DIR/maintenance/runJobs.php
```

CREATE CRONTABS

See : [Technik/Installationsanleitungen/Crontabs](#)

Redirect Parsoid for LDAP

020-VisualEditor.local.php

```
$path = $GLOBALS['wgScriptPath'];
if ( isset( $_GET['sfr'] ) ) {
    $path = $_GET['sfr'];
}

wfLoadExtension( 'Parsoid', "$IP/vendor/wikimedia/parsoid/extension.json" );
$wgVirtualRestConfig['modules']['parsoid'] = array(
    'url' => $wgServer . '/' . $path . '/rest.php/',
    'forwardCookies' => true
);
```

Help Parsoid with SSL

On Debian and Ubuntu you have to copy the certificate.pem to /usr/local/share/ca-certificates/certificate.crt and then run dpkg-reconfigure ca-certificates

Add Mediawiki-adm

```
cd /usr/local/bin
https://github.com/hallowelt/misc-mediawiki-adm/releases/latest/download
/mediawiki-adm
chmod +x *
```