Setup:Installation Guide/Migration from MediaWiki to BlueSpice

A quality version of this page, approved on *21 September 2021*, was based off this revision.

Contents

Before you start

It is important to check the compatibility of your current MediaWiki installation and the BlueSpice version to which you want to migrate:

- BlueSpice Version 3.x is based on MediaWiki 1.31.x
- BlueSpice version 4.x is based on MediaWiki 1.35.x (BlueSpice 4 has not yet been released)

Backup

Create a full backup of your current installation. Commands may differ depending on your operating system.

1. Create a directory to store the backup:

```
mkdir -p /opt/mediawiki-migration-backup/{db,web}
```

2. Create the database dump:

```
mysqldump -u DB_USER_OR_ROOT -p MEDIAWIKI_DATABASE_NAME > /opt/mediawiki-migration-backup/db/database.sql
```

3. Copy everything in the web root to the backup folder:

```
cp -Rvf /PATH/TO/MEDIAWIKI/FOLDER/* /opt/mediawiki-migration-backup/web/
```

We will use this backup later for the migration process as well.

Preparing the migration

You can create a separate user account and database for BlueSpice. This step is optional but recommended. The following steps are based on such a separately created user and database.

If you choose not to create a separate user account and database, replace the following commands accordingly.

1. Create a MySQL/MariaDB user via MySQL CLI:

```
CREATE USER 'bluespice'@'localhost' IDENFITIED BY 'PleaseChooseAComplexPassword';
```

2. Create a database for BlueSpice via MySQL CLI:

```
CREATE DATABASE bluespice;
```

3. Grant the required privileges for the bluespice user to the bluespice database via MySQL CLI:

```
GRANT ALL PRIVILEGES ON bluespice.* TO 'bluespice'@'localhost';
FLUSH PRIVILEGES;
```

Now we have an empty SQL database and are ready to import.

Importing the data

1. Import the SQL dump from the backup you created earlier:

```
mysql -u bluespice -p bluespice < /opt/mediawiki-migration-backup/db/database.sql
```

After this command, enter the password you chose for the `bluespice` database user.
2. Next, clean up the old installation folder and create an empty one.

```
rm -Rf /PATH/TO/MEDIAWIKI/FOLDER/
```

and

```
mkdir -p /PATH/TO/MEDIAWIKI/FOLDER/
```

3. Next, extract the BlueSpice package and place it into the /PATH/TO/MEDIAWIKI/FOLDER/

```
cd /PATH/TO/MEDIAWIKI/FOLDER/
```

4. Copy the *images* folder from the backup to the /PATH/TO/MEDIAWIKI/FOLDER/ :

```
cp -Rf /opt/mediawiki-migration-backup/images .
```

5. Set the correct permissions based on your operating system to the folder /PATH/TO/MEDIAWIKI/FOLDER/ .

Configuration settings

1. In /PATH/TO/MEDIAWIKI/FOLDER/, create a new file named `LocalSettings.php` and copy the following content into the file:

```php
1 <?php
2 # This file was automatically generated by the MediaWiki 1.35.3
3 # installer. If you make manual changes, please keep track in case you
4 # need to recreate them later.
5 #
6 # See includes/DefaultSettings.php for all configurable settings
7 # and their default values, but don't forget to make changes in _this_
8 # file, not there.
9 #
10 # Further documentation for configuration settings may be found at:
11 # https://www.mediawiki.org/wiki/Manual:Configuration_settings
12
13 # Protect against web entry
14 if ( !defined( 'MEDIAWIKI' ) ) {
15         exit;
16 }
17
18
19 ## Uncomment this to disable output compression
20 # $wgDisableOutputCompression = true;
21
22 $wgSitename = "YOUR_WIKI_NAME";
23
24 ## The URL base path to the directory containing the wiki;
25 ## defaults for all runtime URL paths are based off of this.
26 ## For more information on customizing the URLs
27 ## (like /w/index.php/Page_title to /wiki/Page_title) please see:
28 ## https://www.mediawiki.org/wiki/Manual:Short_URL
29 $wgScriptPath = "/w"; # <--- PLEASE CHECK YOUR DOCUMENTROOT
30
31 ## The protocol and server name to use in fully-qualified URLs
32 $wgServer = "http(s)://your-domain.ltd";
33
34 ## The URL path to static resources (images, scripts, etc.)
35 $wgResourceBasePath = $wgScriptPath;
36
37 ## The URL paths to the logo.  Make sure you change this from the default,
38 ## or else you'll overwrite your logo when you upgrade!
39 $wgLogos = [ '1x' => "$wgResourceBasePath/resources/assets/wiki.png" ];
40
41 ## UPO means: this is also a user preference option
42
43 $wgEnableEmail = true;
44 $wgEnableUserEmail = true; # UPO
45
46 $wgEmergencyContact = "nomail@localhost.localdomain";
47 $wgPasswordSender = "nomail@localhost.localdomain";
48
49 $wgEnotifUserTalk = false; # UPO
50 $wgEnotifWatchlist = false; # UPO
51 $wgEmailAuthentication = true;
52
53 ## Database settings
54 $wgDBtype = "mysql";
55 $wgDBserver = "YOUR_DATABASE_SERVER";
56 $wgDBname = "bluespice";
57 $wgDBuser = "bluespice";
58 $wgDBpassword = "PleaseChooseAComplexPassword";
59
60 # MySQL specific settings
61 $wgDBprefix = "";
62
63 # MySQL table options to use during installation or update
```

```
 64 $wgDBTableOptions = "ENGINE=InnoDB, DEFAULT CHARSET=binary";
 65
 66 # Shared database table
 67 # This has no effect unless $wgSharedDB is also set.
 68 $wgSharedTables[] = "actor";
 69
 70 ## Shared memory settings
 71 $wgMainCacheType = CACHE_NONE;
 72 $wgMemCachedServers = [];
 73
 74 ## To enable image uploads, make sure the 'images' directory
 75 ## is writable, then set this to true:
 76 $wgEnableUploads = false;
 77 $wgUseImageMagick = true;
 78 $wgImageMagickConvertCommand = "/usr/bin/convert";
 79
 80 # InstantCommons allows wiki to use images from https://commons.wikimedia.org
 81 $wgUseInstantCommons = false;
 82
 83 # Periodically send a pingback to https://www.mediawiki.org/ with basic data
 84 # about this MediaWiki instance. The Wikimedia Foundation shares this data
 85 # with MediaWiki developers to help guide future development efforts.
 86 $wgPingback = false;
 87
 88 ## If you use ImageMagick (or any other shell command) on a
 89 ## Linux server, this will need to be set to the name of an
 90 ## available UTF-8 locale. This should ideally be set to an English
 91 ## language locale so that the behaviour of C library functions will
 92 ## be consistent with typical installations. Use $wgLanguageCode to
 93 ## localise the wiki.
 94 $wgShellLocale = "C.UTF-8";
 95
 96 ## Set $wgCacheDirectory to a writable directory on the web server
 97 ## to make your wiki go slightly faster. The directory should not
 98 ## be publicly accessible from the web.
 99 #$wgCacheDirectory = "$IP/cache";
100
101 # Site language code, should be one of the list in ./languages/data/Names.php
102 $wgLanguageCode = "en";
103
104 $wgSecretKey = "68a265061a4101d0d3dee2a06eeb734abaa6710a7dbe103838f2a26a50fc7835
";
105
106 # Changing this will log out all existing sessions.
107 $wgAuthenticationTokenVersion = "1";
108
109 # Site upgrade key. Must be set to a string (default provided) to turn on the
110 # web installer while LocalSettings.php is in place
111 $wgUpgradeKey = "8775d57b99d672b8";
112
113 ## For attaching licensing metadata to pages, and displaying an
114 ## appropriate copyright notice / icon. GNU Free Documentation
115 ## License and Creative Commons licenses are supported so far.
116 $wgRightsPage = ""; # Set to the title of a wiki page that describes your
license/copyright
117 $wgRightsUrl = "";
118 $wgRightsText = "";
119 $wgRightsIcon = "";
120
121 # Path to the GNU diff3 utility. Used for conflict resolution.
122 $wgDiff3 = "/usr/bin/diff3";
123
124 ## Default skin: you can change the default skin. Use the internal symbolic
125 ## names, ie 'vector', 'monobook':
126 $wgDefaultSkin = "bluespicecalumma";
127
128 # End of automatically generated settings.
129 # Add more configuration options below.
130
131
132 # This is the main settings file for all BlueSpice extensions and settings
133 # It will include all files in "$IP/settings.d/" directory
```

```
134 require_once "$IP/LocalSettings.BlueSpice.php";
135
136
137 $wgUserMergeProtectedGroups = array();
138 $wgUserMergeUnmergeable = array();
139 $wgMetaNamespace = 'Project';
140 $bsgGroupRoles['*']['reader'] = false;
141
142 # Convenience for debugging
143 # $wgShowSQLErrors = true;
144 # $wgDebugDumpSql  = true;
145 # $wgShowExceptionDetails = true;
146 # $wgShowDBErrorBacktrace = true;
```

2. Edit this `LocalSettings.php` and set the correct values to fit your installation. This current `LocalSettings.php` might look like different from your MediaWiki installation, because BlueSpice comes with a separate folder for custom settings (`settings.d`).

Migrating the system

The system is ready to migrate.

1. Run the following script to start the migration:

```
php /PATH/TO/MEDIAWIKI/FOLDER/maintenance/update.php --quick
```

Now BlueSpice should be reachable.

2. Finally execute the following additional scripts:

```
php /PATH/TO/MEDIAWIKI/FOLDER/maintenance/rebuildall.php Finally for the search
index (ElasticSearch 6.x and ingest-attachment plugins must be installed) php /PATH
/TO/MEDIAWIKI/FOLDER/extensions/BlueSpiceExtendedSearch/maintenance/initBackends.
php --quick
php /PATH/TO/MEDIAWIKI/FOLDER/extensions/BlueSpiceExtendedSearch/maintenance
/rebuildIndex.php --quick
php /PATH/TO/MEDIAWIKI/FOLDER/maintenance/runJobs.php --memory-limit=max
```

Your migration is complete and your BlueSpice is ready to use!

You can use your old credentials to login.

Questions? Visit the BlueSpice help forum on sourceforge.net.