MediaWiki Installation and Configuration on Rhel-7

OS = RHEL-7.2
Mediawiki = 1.28
PHP = 5.6
MariaDB = 5.7
Apache = 2.4
==
1- Installation

=> First we must to install EPEL and Webtatic repository to install require dependency of Mediawiki-1.28.

[root@ip-172-31-4-125 ~]# rpm -Uvh https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
[root@ip-172-31-4-125 ~]# rpm -Uvh https://mirror.webtatic.com/yum/el7/webtatic-release.rpm

[root@ip-172-31-4-125 ~]# yum install php56w php56w-opcache php56w-gd php56w-mbstring php56w-xml php56w-mysql php56w-intl

[root@ip-172-31-4-125 ~]# yum install httpd

=> Download Mediawiki--

[root@ip-172-31-4-125 ~]# wget https://releases.wikimedia.org/mediawiki/1.28/mediawiki-1.28.2.tar.gz

[root@ip-172-31-4-125 ~]# tar -xvzf mediawiki-1.28.2.tar.gz
[root@ip-172-31-4-125 ~]# mv mediawiki-1.28.2 /var/www/html/mediawiki
[root@ip-172-31-4-125 ~]# yum install mariadb-server

=> Create Database for Mediawiki--

[root@ip-172-31-4-125 ~]# mysql -u root -p

MariaDB [(none)]> create database my_wiki;

MariaDB [(none)]> grant all on my_wiki.* to 'wiki'@'localhost' identified by 'hrhk';
Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> flush privileges;
MariaDB [(none)]> exit

=> Setting Up MediaWiki --

Open your faviorate browser and type URL – **http://your_ip_address/mediawiki**

Note:- *If you want to use domain name instead of ip than you need to configure virtualhost in apache.*

MediaWiki 1.28.2

LocalSettings.php not found.

Please set up the wiki first.

Click on Set up the wiki

MediaWiki 1.28.2 installation

Language

Your language:

[?] help

en - English ▼

Wiki language:

[?] help

en - English ▼

Continue →

Select Language and click on Continue -

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← Back   Continue →

Click on Continue again :-

MySQL settings

Database host:

? help

localhost

┌─ Identify this wiki ──────────────────────────

Database name:

? help

my_wiki

Database table prefix:

? help

└──

┌─ User account for installation ───────────────

Database username:

? help

wiki

Database password:

? help

••••

└──

← Back   Continue →

Fill out require DB credential detail and click on continue :-

MediaWiki 1.28.2 installation

Upgrade existing installation

💡   There are MediaWiki tables in this database. To upgrade them to MediaWiki 1.28.2, click **Continue**.

← Back   Continue →

Click on continue :-

MediaWiki 1.28.2 installation

Database settings

Database account for web access

☑ Use the same account as for installation

Storage engine:

◉ InnoDB
○ MyISAM

? help

Database character set:

◉ Binary
○ UTF-8

? help

← Back   Continue →

Click on continue :-

MediaWiki 1.28.2 installation

Name

Name of wiki:
? help
MyGov

Project namespace:
? help
◉ Same as the wiki name: MyGov
○ Project
○ Other (specify)

Administrator account

Your username:
? help
Admin

Password:
••••••••

Password again:
••••••••

Email address:
? help
mediawiki@mygov.in
? help
☐ Subscribe to the release announcements mailing list.
? help
☑ Share data about this installation with MediaWiki developers.

💡 You are almost done! You can now skip the remaining configuration and install the wiki right now.

◉ Ask me more questions.
○ I'm bored already, just install the wiki.

← Back   Continue →

Mention Mediawiki name and admin username(in mycase Admin), credntial and click on continue:-

MediaWiki 1.28.2 installation

Options

User rights profile:

- ⦿ Open wiki
- ○ Account creation required
- ○ Authorized editors only
- ○ Private wiki

> 💡 Wikis work best when you let as many people edit them as possible. In MediaWiki, it is easy to review the recent changes, and to revert any damage that is done by naive or malicious users.
>
> However, many have found MediaWiki to be useful in a wide variety of roles, and sometimes it is not easy to convince everyone of the benefits of the wiki way. So you have the choice.
>
> The **Open wiki** model allows anyone to edit, without even logging in. A wiki with **Account creation required** provides extra accountability, but may deter casual contributors.
>
> The **Authorized editors only** scenario allows approved users to edit, but the public can view the pages, including history. A **Private wiki** only allows approved users to view pages, with the same group allowed to edit.
>
> More complex user rights configurations are available after installation, see the relevant manual entry⧉.

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- ○ Creative Commons Attribution-ShareAlike
- ○ Creative Commons Attribution-NonCommercial-ShareAlike
- ○ Creative Commons Zero (Public Domain)
- ○ GNU Free Documentation License 1.3 or later
- ⦿ No license footer
- ○ Select a custom Creative Commons license

Leave it default and click on continue button :-

MediaWiki 1.28.2 installation

Complete!

> ✓ **Congratulations!** You have installed MediaWiki.
>
> The installer has generated a `LocalSettings.php` file. It contains all your configuration.
>
> You will need to download it and put it in the base of your wiki installation (the same directory as index.php). The download should have started automatically.
>
> If the download was not offered, or if you cancelled it, you can restart the download by clicking the link below:
>
> ### Download `LocalSettings.php`
>
> **Note:** If you do not do this now, this generated configuration file will not be available to you later if you exit the installation without downloading it.
>
> When that has been done, you can **enter your wiki**⧉.

> 💡 Did you know that your wiki supports extensions⧉?
>
> You can browse extensions by category⧉ or the Extension Matrix⧉ to see the full list of extensions.

*=> Now Installation has been completed and **LocalSettings.php** file will be downloaded automaticaly if not than click on Download button.*

*=> In next step you will have to move or copy **LocalSettings.php** file to mediawiki root directory.*

[root@ip-172-31-4-125 ~]# mv Downloads/LocalSettings.php /var/www/html/mediawiki/

=> Now open wiki again from your browser **:-** http://your_ip_address/**mediawiki**
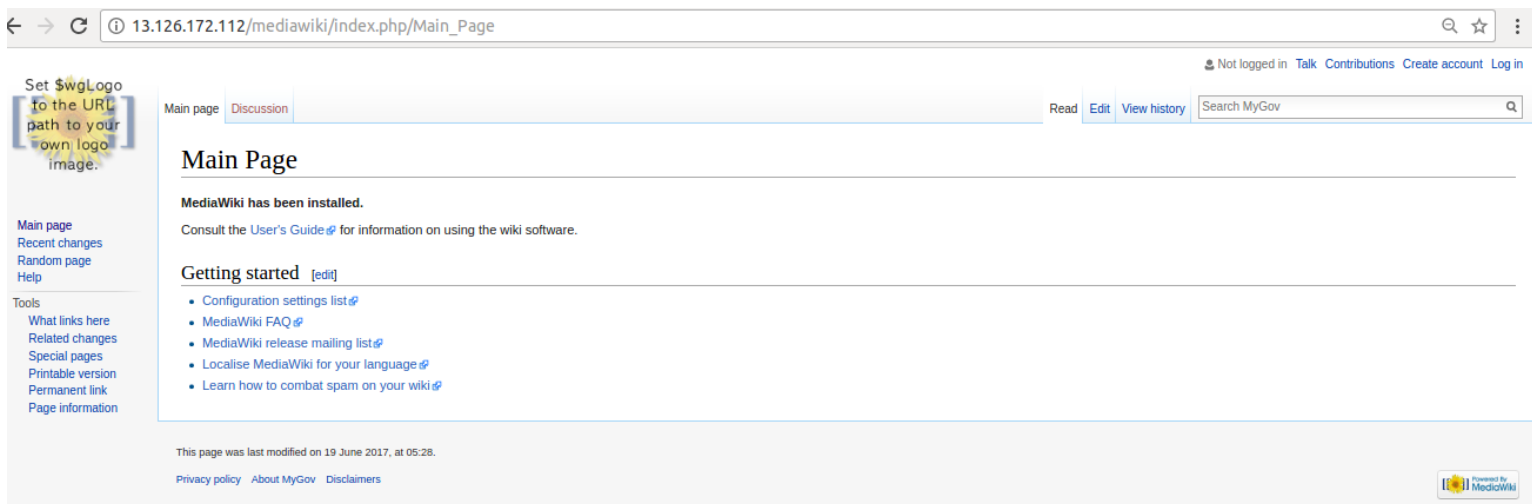
=> *You will see home screen of MediaWiki and Login using Admin credential which we created in earlier step.*

2- Configuring Security :-

We will make secure our wiki from public users and no one will be able to see any hosted document without login on wiki. To do this we will have to change LocalSettings.php file which is kept into mediawiki root directory.

[root@ip-172-31-4-125 ~]# cd /var/www/html/mediawiki/
[root@ip-172-31-4-125 mediawiki]# vim LocalSettings.php
go to in end of file using **shift+g** and append below line.

$wgGroupPermissions['*']['read']   = false;

After making any changes in this file we will have to update it using below command.

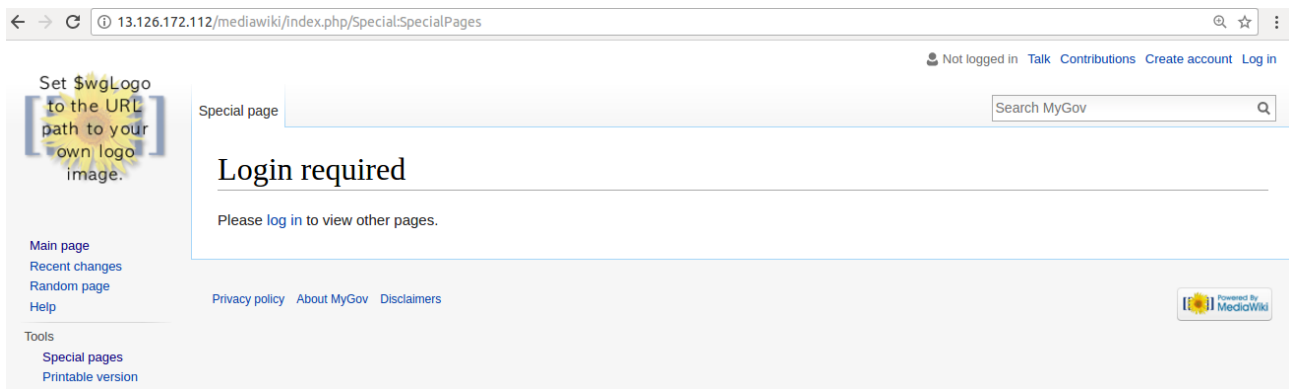**[root@ip-172-31-4-125 mediawiki]#** php maintenance/update.php

You will see below message on success.

=> Now wiki will be require Login before any activity :

Set $wgLogo
to the URL
path to your
own logo
image.

Special page

Search MyGov   Q

Login required

Please log in to view other pages.

Main page
Recent changes
Random page
Help

Tools
Special pages
Printable version

Privacy policy   About MyGov   Disclaimers

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3- Installing of Moderation Extention :-

Go to extensions directory under mediawiki root directory:-

[root@ip-172-31-4-125 ~]# cd /var/www/html/mediawiki/extensions/

[root@ip-172-31-4-125 extensions]# git clone https://github.com/edwardspec/mediawiki-
moderation.git
Cloning into 'mediawiki-moderation'...
remote: Counting objects: 2815, done.
remote: Total 2815 (delta 0), reused 0 (delta 0), pack-reused 2815
Receiving objects: 100% (2815/2815), 507.14 KiB | 151.00 KiB/s, done.
Resolving deltas: 100% (1956/1956), done.

[root@ip-172-31-4-125 extensions]# mv mediawiki-moderation/ Moderation

=> *Now we will have to enable this module.*

[root@ip-172-31-4-125 extensions]# vim ../LocalSettings.php
=> *Append below entries.*

wfLoadExtension('Moderation');
$wgGroupPermissions['sysop']['moderation'] = true; # Allow sysops to use Special:Moderation
$wgGroupPermissions['sysop']['skip-moderation'] = true; # Allow sysops to skip moderation
$wgGroupPermissions['bot']['skip-moderation'] = true; # Allow bots to skip moderation
*$wgGroupPermissions['checkuser']['moderation-checkuser'] = false; # Don't let checkusers see
IPs on Special:Moderation*

$wgAddGroups['sysop'][] = 'automoderated'; # Allow sysops to assign "automoderated" flag
*$wgRemoveGroups['sysop'][] = 'automoderated'; # Allow sysops to remove "automoderated"
flag*

```
wfLoadExtension( 'Moderation' );
$wgGroupPermissions['sysop']['moderation'] = true; # Allow sysops to use Special:Moderation
$wgGroupPermissions['sysop']['skip-moderation'] = true; # Allow sysops to skip moderation
$wgGroupPermissions['bot']['skip-moderation'] = true; # Allow bots to skip moderation
$wgGroupPermissions['checkuser']['moderation-checkuser'] = false; # Don't let checkusers see IPs on Special:Moderation

$wgAddGroups['sysop'][] = 'automoderated'; # Allow sysops to assign "automoderated" flag
$wgRemoveGroups['sysop'][] = 'automoderated'; # Allow sysops to remove "automoderated" flag
```

= > Update new configuration --

[root@ip-172-31-4-125 extensions]# php ../maintenance/update.php

=> To check Moderation page use below url :-

   http://your_ip_address/mediawiki/index.php/Special:Moderation

[root@ip-172-31-4-125 extensions]#

Below are the other Usefull Parameters of LocalSettings.php:-

$wgModerationPreviewLink = true; *(To enable Preview button for Moderation)*.

 # Administrator notification settings
$wgModerationNotificationEnable = true;
$wgModerationNotificationNewOnly = true;
$wgModerationEmail = $wgEmergencyContact;

#Loading Nuke extention
wfLoadExtension('Nuke');
$wgGroupPermissions['sysop']['nuke'] = false;
$wgGroupPermissions['nuke']['nuke'] = true;

Note:- *Don't forget to run update command after making any changes in LocalSettings.php file.*

3- Enabling Notification with Comment on Every Approval and Rejected Documents during moderation:-

Bydefault mediawiki doesn't provide any notification facility on moderation to inform about document status to document owner or editor.

So make it working we need to make little changes in moderation code which is writen in PHP language. So let's start..

=> First of all we will add a TextArea to pass comment on Document.

[root@ip-172-31-4-125 ~]# cd /var/www/html/mediawiki/extensions/Moderation/
[root@ip-172-31-4-125 Moderation]# vim SpecialModeration.php
 Append Below Code after line number **342**.

$line .= "<form id = 'demo' method='post'><textarea name = 'reject_comment' id = 'comment_".$result->id."' rows='2' cols='5'   placeholder= 'Click here for any Comment regarding Document'></textarea></form>";

```
343          $line .= "<form id = 'demo' method='post'><textarea name = 'reject_comment' id = 'comment_".$result->id."' rows='2' cols='5'
      placeholder= 'Click here for any Comment regarding Document'></textarea></form>";
```

=> Now need to implement notifications on Approval and Reject Button.

[root@ip-172-31-4-125 Moderation]# vim action/ModerationActionApprove.php

*=> Append below code under "**public function executeApproveOne()**" method.*

```php
$dbhost = 'localhost:3036';
  $dbuser = 'wiki';
  $dbpass = 'hrhk';
  $conn = mysql_connect($dbhost, $dbuser, $dbpass);
  if(! $conn ) {
    die('Could not connect: ' . mysql_error());
  }
  $sql = "SELECT * from moderation where mod_id=$this->id";
  mysql_select_db('my_wiki');
  $retval = mysql_query( $sql, $conn );
  if(! $retval ) {
    die('Could not get data: ' . mysql_error());
  }
  while($row = mysql_fetch_array($retval, MYSQL_ASSOC)) {
    $message= "MOD ID :{$row['mod_id']} \n ".
      "USER NAME : {$row['mod_user_text']} \n ".
      "Approved Document : {$row['mod_title']} \n ".
      "Comment : {$_GET['comment']} \n ";
      $subject= "Your Document {$row['mod_title']} Has Been Approved";
      $mod_user= "{$row['mod_user']}";
        }
 # echo "$message";
  mysql_close($conn);
  /*New DB connection for User Table */

$conn1 = mysql_connect($dbhost, $dbuser, $dbpass);

  if(! $conn1 ) {
    die('Could not connect: ' . mysql_error());
  }

  $sql1 = "select * from user where user_id=$mod_user";
  mysql_select_db('my_wiki');
  $retmail = mysql_query( $sql1, $conn1 );

  if(! $retmail ) {
    die('Could not get data: ' . mysql_error());
  }
        while($row1 = mysql_fetch_array($retmail, MYSQL_ASSOC)) {
    $EMAIL = "{$row1['user_email']}";
  }
  $headers = 'From: mediawiki@mygov.in';

mail("$EMAIL","$subject",$message,$headers);
  mysql_close($conn1);

/*New DB connection completed here */
```

[root@ip-172-31-4-125 Moderation]# vim action/ModerationActionReject.php

*=> Append below code under "**public function executeRejectOne()**" method.*

```php
$dbhost = 'localhost:3036';
  $dbuser = 'wiki';
  $dbpass = 'hrhk';
    $conn = mysql_connect($dbhost, $dbuser, $dbpass);
    if(! $conn ) {
    die('Could not connect: ' . mysql_error());
  }
  $sql = "SELECT * from moderation where mod_id=$this->id";
  mysql_select_db('my_wiki');
  $retval = mysql_query( $sql, $conn );

  if(! $retval ) {
    die('Could not get data: ' . mysql_error());
  }
    while($row = mysql_fetch_array($retval, MYSQL_ASSOC)) {
    $message= "MOD ID :{$row['mod_id']} \n ".
      "USER NAME : {$row['mod_user_text']} \n ".
      "REJECTED PAGE : {$row['mod_title']} \n ".
      "Comment : {$_GET['comment']} \n ";

        $subject= "YOUR PAGE REJECTED {$row['mod_title']}";
        $mod_user= "{$row['mod_user']}";
  }
  mysql_close($conn);

/*New DB connection for User Table */

$conn1 = mysql_connect($dbhost, $dbuser, $dbpass);

  if(! $conn1 ) {
    die('Could not connect: ' . mysql_error());
  }

  $sql1 = "select * from user where user_id=$mod_user";
  mysql_select_db('my_wiki');
  $retmail = mysql_query( $sql1, $conn1 );

  if(! $retmail ) {
    die('Could not get data: ' . mysql_error());
  }
        while($row1 = mysql_fetch_array($retmail, MYSQL_ASSOC)) {
    $EMAIL = "{$row1['user_email']}";
  }
$headers = 'From: mediawiki@mygov.in';
mail("$EMAIL","$subject",$message,$headers);
  mysql_close($conn1);
```

**Mediawiki has been configured with moderation functionality.
Thanks..**