

Small Wiki Toolkits

How to host a bot on Toolforge



What is Toolforge?

Toolforge is a hosting environment, also known as Platform as a Service. Toolforge makes it easy for you to perform analytics, administer bots, run web services, and create tools. Tools help project editors, technical contributors, and other volunteers who work on Wikimedia projects.

Toolforge is part of the Wikimedia Cloud Services (WMCS) suite of services. It is supported by Wikimedia Foundation staff and volunteers.

See: <https://wikitech.wikimedia.org/wiki/Portal:Toolforge>

SUL Vs Wikimedia Developer Account?

SUL stands for Single user login, It is also called Global Account. It means if you want to edit Wikimedia language Project including metawiki, mediawiki.org. Then you only need to create one account. And you can login at any wikimedia wiki projects by this global account.

But Wikimedia developer account is different from SUL. If you want to access Toolforge then you will need to create a separate account from SUL. The main reasons for developer account is that we need to manage SSH key etc.

Let's create Wikimedia developer account

1. Create SUL account at any Wiki (If you did not create yet)
2. Goto <https://toolsadmin.wikimedia.org/register>
3. Click on “Login with your Wikimedia account”
4. Choose your developer account username
5. Choose your UNIX shell username in small case
6. Add your email address
7. Set your password
8. Click on Create account

Now, you have to request to get access creation of tool.

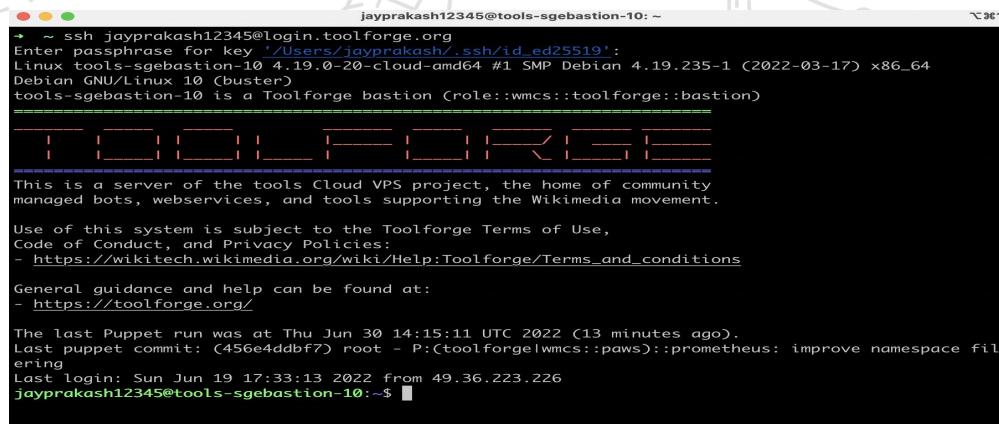
Once, your request will approve. You can create new tool account at
<https://toolsadmin.wikimedia.org/tools/create>.

Setup SSH Keys

1. Check whether you have SSH key already if it is exist then Goto Step 3
\$ ls ~/.ssh
2. ssh-keygen -t rsa -C "your_email@youremail.com"
Assign a memorable passphrase and press [enter].
3. Open your public key file and Copy the full text,
cat ~/.ssh/id_rsa.pub
4. Log into the <https://toolsadmin.wikimedia.org>
5. Click on your username in the top right corner, then choose "Settings".
Click "SSH keys" in the menu on the left.
6. Paste your SSH Public Key into the corresponding field.
7. Click on "Add SSH key"

Login into Toolforge instance

1. Open the terminal
2. Run following command
ssh shellusername@login.toolforge.org
3. Enter the passphrase which you gave during SSH key generation.



A terminal window titled "jayprakash12345@tools-sgebastion-10: ~". The user is prompted to enter a passphrase for the SSH key "/Users/jayprakash/.ssh/id_ed25519". The terminal shows the user's home directory and system information, including the kernel version (4.19.235-1), distribution (Debian GNU/Linux 10 buster), and role (Toolforge bastion). Below this, there is a decorative banner with the word "TOOLFORGE" and a message about the server being a home for community managed bots and webservices supporting the Wikimedia movement. It also provides links to the Terms of Use, Code of Conduct, and Privacy Policies. At the bottom, it shows the last puppet run, the last commit, and the last login details.

```
jayprakash12345@login.toolforge.org ~
Enter passphrase for key '/Users/jayprakash/.ssh/id_ed25519':
Linux tools-sgebastion-10 4.19.235-1 2022-03-17 #1 SMP Debian 4.19.235-1 (2022-03-17) x86_64
Debian GNU/Linux 10 (buster)
tools-sgebastion-10 is a Toolforge bastion (Role::wmcs::toolforge::bastion)

[REDACTED] TOOLFORGE [REDACTED]

This is a server of the tools Cloud VPS project, the home of community
managed bots, webservices, and tools supporting the Wikimedia movement.

Use of this system is subject to the Toolforge Terms of Use,
Code of Conduct, and Privacy Policies:
- https://wikitech.wikimedia.org/wiki/Help:Toolforge/Terms\_and\_conditions

General guidance and help can be found at:
- https://toolforge.org/

The last Puppet run was at Thu Jun 30 14:15:11 UTC 2022 (13 minutes ago).
Last puppet commit: (456e4ddbf7) root - P:(toolforge|wmcs)::paws::prometheus: improve namespace filtering
Last login: Sun Jun 19 17:33:13 2022 from 49.36.223.226
jayprakash12345@tools-sgebastion-10:~$
```

Now use “become toolname” command to get into the specific tool project.

Run the bot

There are two ways to run the bot.

1. Through Crontab

https://wikitech.wikimedia.org/wiki/Help:Toolforge/Grid#Scheduling_jobs_at_regular_intervals_with_cron

2. Through Grid engine

[https://wikitech.wikimedia.org/wiki/Help:Toolforge/Grid#Submitting_continuous_jobs_\(such_as_bots\)_with'_jstart'](https://wikitech.wikimedia.org/wiki/Help:Toolforge/Grid#Submitting_continuous_jobs_(such_as_bots)_with'_jstart')

https://wikitech.wikimedia.org/wiki/Help:Toolforge/Pywikibot#Setup_job_submission

Thank you!

You can reach me via/on:

Email: Ofreerunning@gmail.com

User page: <https://meta.wikimedia.org/wiki/User:Jayprakash12345>

LinkedIn: <https://www.linkedin.com/in/jayprakash12345/>

