comment-installer-reddit-like-content-aggregator-kbin-sur-ubuntu-22-04

Kbin is an open-source Reddit-like content aggregator and microblogging platform for the fediverse. It allows you to create and moderate communities and can communicate with other ActivityPub services including Mastodon, Pleroma, and Peertube.

While there are popular instances of Kbin you can join and use, you can run your own Kbin instance as well for your friends and family. In this tutorial, you will learn how to install Kbin on an Ubuntu 22.04 server

Prerequisites • A server running Ubuntu 22.04. • A non-root sudo user. • A fully qualified domain name (FQDN) like example. con • Make sure everything is updated \$ sudo apt update \$ sudo apt upgrade • Few packages that your system needs. \$ sudo apt install wget curl nano ufw software-properties-common dirmngr apt-transport-https gnupg2 ca-certificates lsb-release ubuntu-keyring unzip -y Some of these packages may already be installed on your system. • Our installation also requires Access Control List(ACL) to work. Install it. \$ sudo apt install acl Step 1 - Configure Firewall The first step is to configure the firewall. Ubuntu comes with ufw (Uncomplicated Firewall) by default Check if the firewall is running. \$ sudo ufw status You will get the following output. Status: inactive Allow SSH port so that the firewall doesn't break the current connection upon enabling it. \$ sudo ufw allow OpenSSH Allow HTTP and HTTPS ports as well \$ sudo ufw allow http \$ sudo ufw allow http Enable the Firewall \$ sudo ufw enable Command may disrupt existing ssh connections. Proceed with o Firewall is active and enabled on system startup eration (y/n)? y Check the status of the firewall again. \$ sudo ufw status You should see a similar output. Status: active То Acti --OpenSSH 80/tcp 443 OpenSSH (v6) 80/tcp (v6) 443 (v6) ALLOW Step 2 - Install Git Git is usually installed with the Ubuntu server but if it is not, you should install it using the following comma \$ sudo apt install g Verify the installation. \$ git --version git version 2.34.1 Configure Git with basic information. \$ git config --global user.name "Your Name" \$ git config --global user.email "youremail@example.com" Step 3 - Install Nginx Ubuntu ships with an older version of Nginx. To install the latest version, you need to download the official Nginx repository. Import Nginx's signing key. Add the repository for Nginx's stable version. Update the system repositories

\$ sudo apt update

Install Nginx.
\$ sudo apt install nginx
Verify the installation.
\$ nginx -ν nginx version: nginx/1.24.θ
Start the Nginx server.
\$ sudo systemetl start nginx
Step 4 - Install PHP and configure PHP
Ubuntu 22.04 ships with PHP 8.1.2 version which is a bit outdated. We will install the latest PHP 8.2 version using Ondrej's PHP repository.
\$ sudo add-apt-repository ppa:ondrej/php
Next, install PHP and its extensions required by Kbin.
\$ sudo apt install php8.2-common php8.2-fpm php8.2-cli php8.2-amqp php8.2-pgsql php8.2-gd php8.2-curl php8.2-simplexml php8.2-dom php8.2-xml php8.2-redis php8.2-redis php8.2-intl unzip
Verify the installation.
<pre>\$ phpversion PHP 8.2.7 (ii) (built: Jun 8 2023 15:27:40) (NTS) Copyright (c) The PHP Group Zend Engine v4.2.7, Copyright (c) Zend Technologies with Zend OPcache v8.2.7, Copyright (c), by Zend Technologies</pre>
Open the file /etc/php/8.2/fpm/pool.d/www.conf.
\$ sudo nano /etc/php/8.2/fpm/pool.d/www.conf
We need to set the Unix user/group of PHP processes to nginx . Find the user=www-data and group=www-data lines in the file and change them to nginx.
; Unix user/group of processes ; Unix user/group of processes ; Note: The user is mandatory. If the group is not set, the default user's group ; New: apache user chosen to provide access to the same directories as httpd user = nginx ; RPM: Keep a group allowed to write in log dir. group = nginx
Find the listen.owner = www-data and listen.group = www-data lines in the file and change them to nginx.
; Set permissions for unix socket, if one is used. In Linux, read/write ; permissions must be set in order to allow connections from a web server. Many ; BSD-derived systems allow connections regardless of permissions. The owner ; and group can be specified either by name or by their numeric IDS. ; Default Values: user and group are set as the running user ; mode is set to 0660 Listen.group = nginx
Save the file by pressing Ctrl + X and entering Y when prompted. Increase the memory limit for PHP-FPM from 128 MB to 512 MB.
\$ sudo sed -i 's/memory_limit = 128M/memory_limit = 512M/' /etc/php/8.2/fpm/php.ini
Increase the file upload size to 8 MB.
\$ sudo sed -i 's/upload_max_filesize = 2M/upload_max_filesize = 8M/' /etc/php/8.2/fpm/php.ini
Restart the PHP-FPM service.
\$ sudo systemctl restart php8.2-fpm
Change the group of the PHP sessions directory to Nginx.
\$ sudo chgrp -R nginx /var/lib/php/sessions
Step 5 - Install Composer
Composer is a dependency management tool for PHP and is required for Kbin installation. Grab the composer setup file.
<pre>\$ php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"</pre>
Run the installer to generate the Composer binary.
\$ php composer-setup.php
Remove the setup file.
\$ php -r "unlink('composer-setup.php');"
Move the composer.phar binary to the /usr/local/bin directory.
\$ sudo mv composer.phar /usr/local/bin/composer
Verify the Composer installation.
\$ composerversion Composer version 2.5.8 2023-06-09 17:13:21

Step 6 - Install and Configure PostgreSQL

Ubuntu 22.04 ships with PostgreSQL 14 by default. We will be using PostgreSQL 15 instead.

Run the following command to add the PostgreSQL GPG key.

\$ curl https://www.postgresql.org/media/keys/ACCC4CF8.asc | gpg --dearmor | sudo tee /usr/share/keyrings/postgresql-key.gpg >/dev/null

Add the APT repository to your sources list.

Update the system repository.
\$ sudo apt update
Now, you can install PostgreSQL using the command below.
\$ sudo apt install postgresql postgresql-contrib
The <i>postgresql-contrib</i> package contains some extra utilities.
Check the status of the PostgreSQL service.
<pre>\$ sudo systemctl status postgresql ? postgresql.service - PostgreSQL PDBMS Loaded: loaded (/li/system/postgresql.service; enabled; vendor preset: enabled) Active: active (exited) since Sat 2023-06-17 09:15:50 UTC; 3h 40min ago Main PID: 20939 (code=exited, status=0/SUCCESS) CPU: Ims</pre>
Jun 17 09:15:50 nspeaks systemd[1]: Starting PostgreSQL RDBMS Jun 17 09:15:50 nspeaks systemd[1]: Finished PostgreSQL RDBMS.
You can see that the service is enabled and running by default.
Launch the PostgreSQL shell.
\$ sudo -i -u postgres psql
Create the Kbin database.
postgres=# CREATE DATABASE kbin;
Create the Kbin user and choose a strong password.
postgres # CREATE USER kbinuser WITH PASSWORD 'Your_Password';
Change the database owner to the Kbin user.
postgres+# ALTER DATABASE kbin OWNER TO kbinuser;
Exit the shell.
postgres-# \q
Verify that your credentials work.
\$ psqlusername kbinuserpasswordhost localhost kbin Password: psql (15.3 (Ubuntu 15.3 -1.padg22 04+1)) SSL connection (protocol: TLSv1.3, cipher: TLS_AES_256_GCM_SHA384, compression: off) Type "help" for help. kbin=>
Exit the shell by typing 1q.
Step 7 - Install Nodejs and Yarn
Ubuntu 22.04 ships with Node v12 which is outdated. We will install the latest LTS version of Node which is v18 at the time of writing this tutorial.
Grab the Node v18 installer from <u>NodeSource</u> .
\$ curl -sL https://deb.nodesource.com/setup_lts.x -o nodesource_setup.sh
Run the installer script.
\$ sudo bash nodesource_setup.sh
Install Node.js.
\$ sudo apt install nodejs
Verify the Node.js version.
\$ node -v v18.16.1
Delete the installer file.
\$ rm nodesource_setup.sh
Step 8 - Install Yarn
Import the GPG key for Yarn.
<pre>\$ curl -sL https://dl.yarnpkg.com/debian/pubkey.gpg gpgdearmor sudo tee /usr/share/keyrings/yarnkey.gpg >/dev/null</pre>
Add the Yarn source to the system repositories list.
\$ echo "deb [signed-by=/usr/share/keyrings/yarnkey.gpg] https://dl.yarnpkg.com/debian stable main" sudo tee /etc/apt/sources.list.d/yarn.list
Update your system repositories list.
\$ sudo apt update
Install Yarn
\$ sudo apt install yarm
Verify the installation.
\$ yarnversion
1.22.19

Step 8 - Install Redis

Magento uses Redis for session and cache storage. It is entirely optional and you can use the database for session storage. But Redis does a better job. The latest version of Magento works with Redis 7.0. Ubuntu ships with Redis 6.0 so we will use the Redis repository for installation.

Import the official Redis GPG key.

\$ curl -fsSL https://packages.redis.io/gpg | sudo gpg --dearmor -o /usr/share/keyrings/redis-archive-keyring.gpg

Add the APT repository to your sources list.

\$ echo "deb [signed-by=/usr/share/keyrings/redis-archive-keyring.gpg] https://packages.redis.io/deb \$(lsb_release -cs) main" | sudo tee /etc/apt/sources.list.d/redis.list

Update the system repository list.
\$ sudo apt update

Issue the following command to install the Redis server.

\$ sudo apt install redis

Confirm the Redis version.

\$ redis-server -v Redis server v=7.0.11 sha=0000000000 malloc=jemalloc-5.2.1 bits=64 build=3af367a78d5e21e9

Let us verify the service connection by using the following command.

\$ redis-cli

You will be switched to the Redis shell.

The first step is to set the password for the Redis default user. Replace Your_Redis_Password with a strong password of your choice. Make sure you prefix the password with the > character.

127.0.0.1:6379> acl setuser default >Your_Redis_Password

Test the Redis Authentication.

127.0.0.1:6379> AUTH Your_Redis_Password

Ping the service.

127.0.0.1:6379> ping PONG

Exit the service by typing *exit*.

If you want, you can use the following command to generate the Redis password.

\$ openssl rand 60 / openssl base64 -A 0aY0uq6J9HhxMV0sGCeZbaGecphCl4GBfVkC0PkNjkQE1FX9DKpGSCJcDb8UV+AuFKA8tR1PgjGequn1

Step 9 - Install and Configure RabbitMQ

Kbin requires RabbitMQ for message queuing purposes. We will install it from the Ubuntu repository.

\$ sudo apt install rabbitmq-server

Create a Rabbit User. Choose a strong password.

\$ sudo rabbitmqctl add_user kbin StrongPassword

Make the user an administrator

\$ sudo rabbitmqctl set_user_tags kbin administrator

Step 10 - Download Kbin

Before downloading K bin, we need to create a Kb in user account.		
\$ adduser kbin		
Add the Kbin user to the sudo group.		
\$ sudo usermod -aG sudo kbin		
Log in as the <i>kbin</i> user.		
\$ su - kbin		
Create the /var/www/html/kbin directory.		
\$ sudo mkdir /var/wwww/html/kbin -p		
Switch to the directory.		
\$ cd /var/www/html/kbin		
Give proper permissions to the folder so that the currently logged-in user can perform tasks.		
\$ sudo chown \$USER:\$USER kbin		
Clone the Kbin Git repository into the current folder. Make sure to add the period(.) at the end of the command t	to refer to the current folder.	
\$ git clone https://codeberg.org/Kbin/kbin-core.git .		
Create the <i>public/media</i> directory.		
\$ mkdir public/media		
Give full permission to it.		

\$ chmod 777 public/media

Step 11 - Configure Environment File

Generate the Mercure JWT secret key.

<pre>\$ node -e "console.log(require('crypto').randomBytes(32).toString('hex'))"</pre>
Generate the App secret using the same command again.
<pre>\$ node -e "console.log(require('crypto').randomBytes(32).toString('hex'))"</pre>
Create and open the .env file for editing in the Kbin directory.
\$ nano .env
Paste the following code in it. Use the keys generated above in the following file.
<pre># Run "composer dump-env prod" to compile .env files for production use (requires symfony/flex >=1.2). # https://symfony.com/doc/current/best_practices.html#use-environment-variables-for-infrastructure-configuration # kbin variables SERVER NMME="nspeaks.xyz" # production KBUN DOMAIN-mspeaks.xyz" # production KBUN DOMAIN-mspeaks.xyz KBUN TITLE-Howtoforge KBUN DEFATION ENABLED=true KBUN CALSTRATIONS ENABLED=true KBUN SERVER TAML=moreply@nspeaks.com KBUN SERVER TAML=moreply@nspeaks.com</pre>
Redis REDIS PASSWORD=YourRedisPassword REDIS DNS=redis://default:\$(REDIS _PASSWORD)@localhost:6379
###> symfony/framework-bundle ### APP ENV=prod APP SECRET=427f5e2940e5b2472c1b44b2d06e0525 ###< symfony/framework-bundle ###
###> doctrime/doctrime-bundle ### # Format described at https://www.doctrime-project.org/projects/doctrime-dbal/en/latest/reference/configuration.html#connecting-using-a-url # IMPORTANT: You MUST configure your server version, either here or in config/packages/doctrime.yaml # POSTGRES USER-kbin POSTGRES USER-kbin POSTGRES VSER-kbin POSTGRES VSER-kbin POSTGR
#MESSENGER TRANSPORT DSN=doctrine://default #MESSENGER TRANSPORT_DSN=rodis://\${REDIS_PASSWORD}@redis:6379/messages ###< symfony/messenger ### ###> symfony/mailgun-mailer ###
###LLEK_DSN=mmailgun+smtp://postmasteregsandooxxx.mailgun.org:keyenerauttregion=us MAILER_DSN=smtp://AKIASTGAWIHHMSKY:BJQWII9U6JqSuUFQ9Ffd22Dvom/8KNwk7EIrFTRa102/@email=smtp.us·west-2.amazonaws.com:465 ###~ symfony/mailgun-mailer ### ###> symfony/mercure-bundle ###
See https://symfony.com/doc/current/mercure.html#configuration # The URL of the Mercure hub, used by the powlash updates (can be a local URL) MERCURE_URL=https://example.com/.well+known/mercure # The public URL of the Mercure hub, used by the browser to connect MERCURE_PUBLIC_URL=https://example.com/.well+known/mercure # The server used to sign the JMrs MERCURE_JMI_SECRET="(ChangeThisMercureHubJWTSecretKey!" ###c symfany/mercure-budle
###> symfony/lock ### LOCK DSN=flock ###< symfony/lock ###
Save the file by pressing Ctrl + X and entering Y when prompted.
Step 12 - Install Kbin
Install the packages required by Kbin using Com poser.
\$ composer installprefer-dist no-dev \$ composer dump-env prod
Clear the cache.
\$ APP_ENV=prod APP_DEBUG=0 php bin/console cache:clear \$ composer clear-cache
Give proper permissions to the media folder.
\$ sudo chown kbin:nginx public/media
Set proper file and directory permissions by using the <i>setfacl</i> command. The following command detects the current web server in use (Nginx) and sets permissions for the existing and future files and folders.
<pre>\$ HTTPDUSER=\$(ps axo user,comm grep -E '{a]pache [h]ttpd [_]www.data [n]ginx' grep -v root head -1 cut -d\ -f1) \$ sudo setfacl -dR -m u:"\$HTTPDUSER":rwX -m u:\$(whoami):rwX var \$ sudo setfacl -R -m u:"\$HTTPDUSER":rwX -m u:\$(whoami):rwX var</pre>
Create and migrate the PostgreSQL database.
<pre>\$ php bin/console doctrine:database:create \$ php bin/console doctrine:migrations:migrate</pre>
You will be prompted if you want to continue with data migration. Type yes to proceed.
WARNING! You are about to execute a migration in database "kbin" that could result in schema changes and data loss. Are you sure you wish to continue? (yes/no) [yes]: > yes [notice] Migrating up to DoctrineMigrations\Version20230615203020 [notice] finished in 1373.9ms, used 24M memory, 79 migrations executed, 667 sql queries [OK] Successfully migrated to version : DoctrineMigrations\Version20230615203020
Install and build the public front end for the Kbin site.
\$ yarn install \$ yarn build
Create a new administrator user for Kbin.
\$ php bin/console kbin:user:create username email@example.com password
Grant administrative privileges to the user.
\$ php bin/console kbin:user:admin username

Update the Keys.

Step 13 - Install SSL

We need to install Certbot to generate the SSL certificate. You can either install Certbot using Ubuntu's repository or grab the latest version using the Snapd tool. We will be using the Snapd version.

Ubuntu 22.04 comes with Snapd installed by default. Run the following commands to ensure that your version of Snapd is up to date.

\$ sudo snap install core && sudo snap refresh core
Install Certbot.
\$ sudo snap installclassic certbot
Use the following command to ensure that the Certbot command can be run by creating a symbolic link to the /usr/bin directory.
\$ sudo In -5 /snap/bin/certbot /usr/bin/certbot
Run the following command to generate an SSL Certificate.
\$ sudo certbot certonlynginxagree-tosno-eff-emailstaple-ocsppreferred-challenges http -m name@example.com -d example.com
The above command will download a certificate to the /etc/letsencrypt/live/example.com directory on your server. Generate a Diffie-Hellman group certificate.
\$ sudo openssi dh <mark>param -ds</mark> apar <mark>am -out /etc/ssl/ce</mark> rts/dhparam.pem 4096
Check the Certbot renewal scheduler service.
\$ sudo systematl list-timers
You will find snap.certbot.renew.service as one of the services scheduled to run.
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Do a dry run of the process to check whether the SSL renewal is working fine.
\$ sudo certbot renewdry-run
If you see no errors, you are all set. Your certificate will renew automatically.
Step 14 - Configure Nginx
Create and open the file /etc/nginx/conf.d/kbin.conf for editing.
\$ sudo nano /etc/nginx/conf.d/kbin.conf
Paste the following code in it.
server { listen 443 ssl http2; listen [::]:443 ssl http2; server name example.com;
access (up /var/log/nginx/kbin.access.log; error_log /var/log/nginx/kbin.error.log; # SSL
ssI_certificate /etc/letsencrypt/live/example.com/frilkcp.em; ssI_certificate /etc/letsencrypt/live/example.com/frilkcp.em; ssI_trusted certificate /etc/letsencrypt/live/example.com/chain.pem; ssI_session_timework_log; ssI_session_timeksto_ff; ssI_protocols_TLSv1.2_TLSv1.3; ssI_protocols_TLSv1.2_TLSv1.3; ssI_proter_server_ciphers_on; ssI_ciphers_ECDME-ECDSA_AESI20-6CM-SHA256:ECDHE-ECDSA_AES226-6CM-SHA384:ECDHE-RSA_AES256-6CM-SHA384:ECDHE-ECDSA-CHACHA20-POLY1305:ECHE-RSA-AES128-6CM-SHA256:ECHE-RSA-AES128-6CM-SHA266:ECHE-RSA-AES128-6CM-SHA266:ECHE-RSA-AES128-6CM-SHA266:ECHE-ECDSA-CHACHA20-POLY1305:ECHE-RSA-AES128-6CM-SHA266:ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-6CM-SHA268:ECHE-ECHE-RSA-AES128-CHE-ECHE-RSA-AES128-CHE-ECHE-ECHE-RSA-AES128-CHE-ECHE-RSA-AES128-CHE-ECHE-ECHE-ECHE-ECHE-ECHE-ECHE-ECHE
ssl stapling on; ssl stapling verify on; ssl dhparam /etc/ssl/certs/dhparam.pem; # üse https://blog.cloudflare.com/announcing-1111 Cloudfare+Apnic labs, It is free and secure resolver 1.1.1.1 1.0.0.1 [2606:4700:4700:1111] [2606:4700:4700:1001] valid=300s; root /var/www/html/kbin/public;
<pre>index index.php; location / { try_files \$uri \$uri/ /index.php; }</pre>
<pre># Pass PHP Scripts To FastCGI Server location = 1 .php { try, files Suri =404; fastcgi index .nhe; fastcgi pass unix:/run/php-fm/www.sock; # Depends On The PHP Version fastcgi pass unix:/run/php-fm/www.sock; # Depends On The PHP Version fastcgi param SCRIPT FillENWHE srealpath rootsfastcgi script_name;</pre>
<pre>include fastcgi_params; } # deny access to writable files/directories location =* ^/sites/*/(documents/edi/era) { deny all;</pre>
<pre>return 404; } # deny access to certain directories location =^ /(contrib/tests) { deny all; }</pre>
<pre>/ return +0+; } # Alternatively all access to these files can be denied location =* //(admin/setup/acl_setup/acl_upgrade/sql_upgrade/gacl/setup/ippf_upgrade/sql_patch)\.php {</pre>
<pre>location = /favicon.ico { log.not found off; access_log off; }</pre>
<pre>location = /robots.txt { log not found off; access_log off; } location = /\. {</pre>
deny all; } }
<pre># enforce HTTP5 server { Usten 80; listen [::]:80; server_name example.com; return 301 https://shost\$request_uri;</pre>

Notice the root directory to be used in the Nginx configuration is /var/www/html/kbin/public/.

Save the file by pressing Ctrl + X and entering Y when prompted once finished.

Open the file /etc/nginx/nginx.conf for editing.

\$ sudo nano /etc/ngin	x/nginx.conf
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Add the following line before the line include /etc/nginx/conf.d/*.conf;.

server_names_hash_bucket_size 64;

Save the file by pressing Ctrl + X and entering Y when prompted. Verify the Nginx configuration file syntax.

\$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful

Restart the Nginx service.

\$ sudo systemctl restart nginx

Step 15 - Install and Configure Supervisor

Supervisor is a process manager and we will use it as a process monitor for message worker (RabbitMQ) for Kbin. The first step is to install Supervisor.

\$ sudo apt install supervisor

Create the /etc/supervisor/conf.d/messenger-worker.conf file and open it for editing.

\$ sudo nano /etc/supervisor/conf.d/messenger-worker.conf Paste the following code in it.

[program:messenger-kbin] command=php /var/www/html/kbin/bin/console messenger:consume async --time-limit=3600 numprocs=2 startsecs=0 autostart=true autorestart=true startretries=10 process name=%[program name]s %(process num)02d stderr_logfile=/var/log/supervisor/%(program name)s stderr.log stderr_logfile=waxbytes=10WB

stout_togrite_maxbytes=iows
[program:messenger-ap]
command=php /var/www/html/kbin/console messenger:consume async_ap --time-limit=3600
user=kbin
numprocs=2
startsecs=0
autostart=true
autorestart=true
startertis=10
process name=%[process_num)02d
starter_limit=>rody/supervisor/%[program_name]s_stderr.log
stderr_logfile_var/log/supervisor/%[program_name]s_stdout.log
stdout_logfile_var/log/supervisor/%[program_name]s_stdout.log
stdout_logfile_var/log/supervisor/%[program_name]s_stdout.log
stdout_logfile_maxbytes=10HB

Save the file by pressing Ctrl + X and entering Y when prompted.

Run the following commands to re-read and update the new configuration file.

\$ sudo supervisorctl reread \$ sudo supervisorctl update

Start all the Supervisor services.

\$ sudo supervisorctl start all

Step 16 - Access Kbin

Open the URL https://example.com and you will get the following Kbin homepage



Click the $\boldsymbol{Log}\ \boldsymbol{in}$ link at the top to bring up the login page.



Enter the credentials created in step 12 and click the Log in button to proceed. You will be taken back to the Kbin homepage. You can start using Kbin from hereon.

Conclusion

This concludes our tutorial on installing Reddit-like Content Aggregator Kbin on a Ubuntu 22.04 server. If you have any questions, post them in the comments below.

