

Shiny server documentation

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Shiny server: app04.binf.unibe.ch

Important: The user must be **within the university network** or connected via VPN

Instructions to set up a new app

The following steps must be executed as **sudo**. The example is for an app called "gugus"

1) Copy the app to /opt/shiny-server/apps

For example "/opt/shiny-server/apps/gugus". The folder gugus would contain ui.R and server.R scripts and all data required by the app, for example the ShinyApp folder exactly as it is produced by the RNA-seq pipeline.

2) In /etc/nginx/apps.d create a folder whose name matches that of the app

```
mkdir /etc/nginx/apps.d/gugus
```

3) In /etc/nginx/apps.d/, create a file "gugus.conf" with this content:

```
location /apps/gugus/ {  
    include /etc/nginx/apps.d/shiny-server-apps.conf.include;  
    auth_basic "App Gugus users";  
    auth_basic_user_file /etc/nginx/apps.d/gugus/passwords;  
}
```

auth_basic text can be changed as you like. All occurrences of "gugus" would have to be replaced with the actual name of your app.

4) Choose a password, for example using the command pwgen

If you want your app to be accessible without a password, you can omit steps 4 + 5 and comment out the password line in gugus.conf. If you still want some level of security, you could consider adding a random combination of characters to the url.

5) Assign passwords to users

Example for a user with username "user1": `htpasswd -c /etc/nginx/apps.d/gugus/passwords user1`

6) Run command: `systemctl reload nginx`

I made a script that will run steps 2, 3, 5 and 6. It expects two command line arguments and will ask for a password: `/opt/shiny-server/scripts/setupApp.sh <appName> <username>`.

In our example: `/opt/shiny-server/scripts/setupApp.sh gugus user1`

The app can now be accessed in any browser here: <https://shiny.bioinformatics.unibe.ch/apps/gugus/>