



FastX Admin Quick Guide

[How to Install / Upgrade FastX?](#)

[How to get to the System Configuration?](#)

[How to create a Bookmark for users?](#)

[How to view all the active sessions on the server or cluster?](#)

[How to limit users' FastX actions?](#)

[How to terminate a disconnected session after a period of time?](#)

[How to send messages to users?](#)

[How to set up a Theme?](#)

[How to set up a cluster manager?](#)

[How to upload the configuration from Standalone to a Cluster?](#)

[Uploading Configuration from a Standalone to a Cluster](#)

[Downloading Configuration from a Cluster](#)

[Where do I find additional documentation?](#)

How to Install / Upgrade FastX?

Install with FastX repository (recommended)

- Run the script **setup-fastx-server.sh** from [this URL](#) in one of two ways:
 - a. Directly with this command:

`curl https://www.starnet.com/files/private/Beta/setup-fastx-server-preview.sh | sudo bash -`

b. Or, first download the script using curl or wget, then run it with this command:

`sudo bash setup-fastx-server.sh`

- Then run the post install command:

`/usr/lib/fastx/3/install.sh`

Once the repository is installed, you can run these upgrade commands, which will install a new version if available:

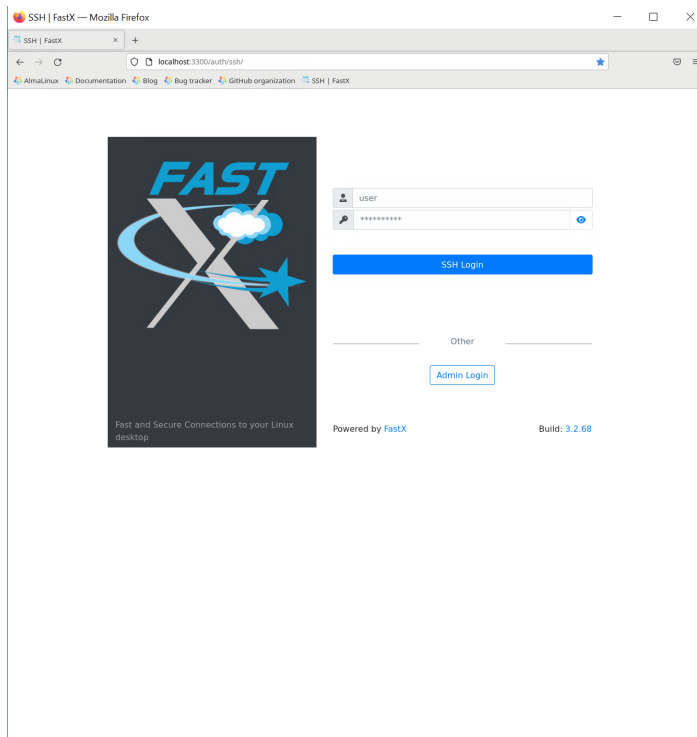
- **`sudo yum install -y fastx-server`**
(or **`sudo apt-get install fastx-server`** on Debian distributions)
- **`sudo /usr/lib/fastx/3/install.sh -q`**

Install FastX with RPM or DEB

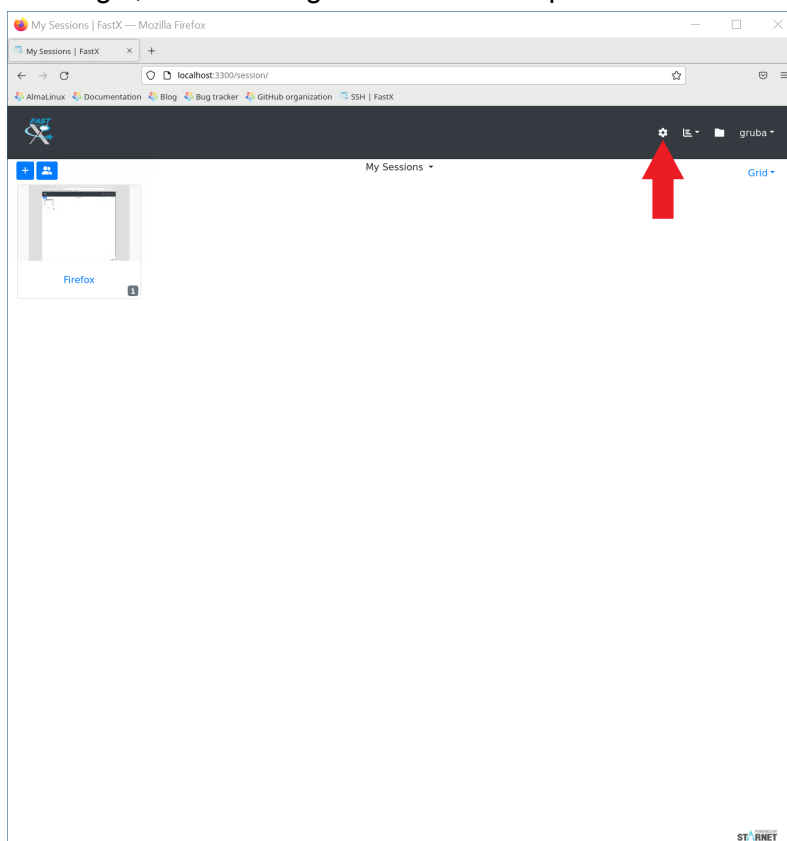
- Download FastX Server by going to the following URL.
<https://www.starnet.com/fastx/early-access>
- Use the following command to install:
 - RPM: **`sudo rpm install -y fastx-server`**
 - DEB: **`sudo apt-get install -y fastx-server`**
- Then run the post install command:
`sudo /usr/lib/fastx/3/install.sh`

How to get to the System Configuration?

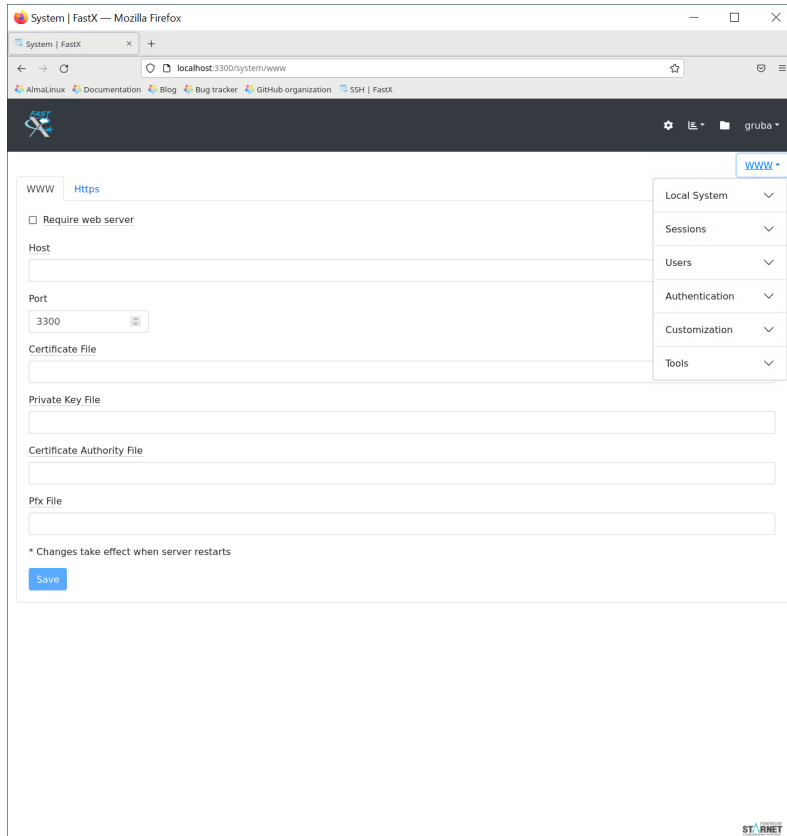
- Launch a browser on your FastX host and go to the following URL:
`http://localhost:3300/`
* Administrators can also connect to FastX remotely with a browser, if remote browser access is available (i.e. port 3300/tcp is open through the firewall).



- Log in as an administrator
- After login, click on the gear icon on the top left



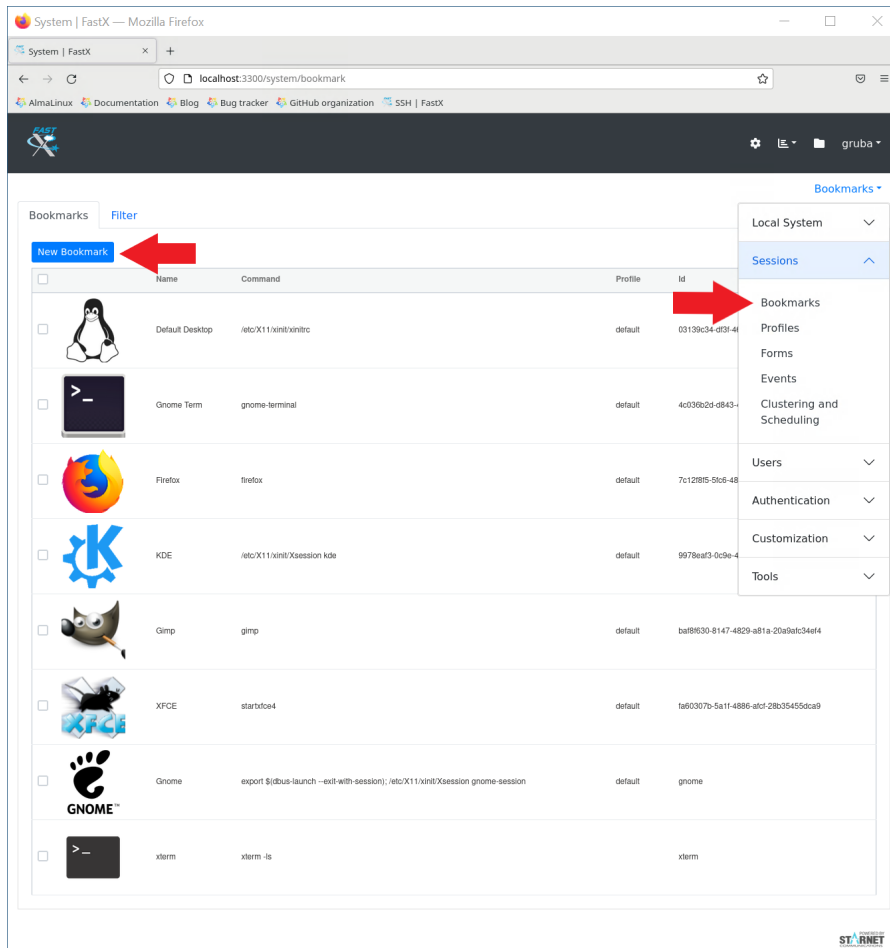
- System Configuration Page will load



- For more information on System Configuration, please go to: <https://www.starnet.com/xwin32kb/fastx-3-2-system-config/>

How to create a Bookmark for users?


- Go to the [System Configuration](#)
- Then go to Sessions > Bookmarks



- Click on the New Bookmark button (see image above)
- Enter in **Command**, **Name** (Name of Bookmark), and **Window Mode**.
*Window Mode: Use **Single** for Desktops and **Multiple** for Applications.
- Hit Submit (Admins can add an icon additional parameters if needed)


General **Icon** Custom Parameters Static Data

Command: *

xterm -ls 


☐ Strict Mode: Do not allow user to change the bookmark parameters

Name:

Display Name 

Run As User:

Window Mode:

Single  1024 x 768

☐ Override Default Forms List

Custom Forms:

+ Add and press Enter

Profile:

Default Profile

Tags:

+ Add and press Enter

Id:

Cancel Submit

How to view all the active sessions on the server or cluster?

- Click on the chart icon on the top right and select Sessions on the server or cluster

Manage Sessions

<input type="checkbox"/>	Name	Connected	Uptime	Login
<input type="checkbox"/>	X-Term	Idle: 18 days	18 days	paul@fastx.starnet.com
<input type="checkbox"/>	New Default Desktop	Idle: 19 days	19 days	schoch@fastx.starnet.com
<input type="checkbox"/>	X-Term	Idle: 18 days	2 months	schoch@fastx.starnet.com
<input type="checkbox"/>	Default Desktop	Idle: 18 days	23 days	paul@fastx.starnet.com
<input type="checkbox"/>	Xterm (Single)	Idle: 18 days	18 days	paul@fastx.starnet.com
<input type="checkbox"/>	Glxgears	Idle: 18 days	18 days	schoch@fastx.starnet.com
<input type="checkbox"/>	Default Desktop	Idle: 19 days	25 days	schoch@fastx.starnet.com
<input type="checkbox"/>	Glxgears	Idle: 18 days	18 days	paul@fastx.starnet.com
<input type="checkbox"/>	Default Desktop	Idle: 2 days	23 days	fastx-admin@fastx.starnet.com
<input type="checkbox"/>	GNOME	Idle: 5 days	2 months	fastx-admin@fastx.starnet.com
<input type="checkbox"/>	GNOME	Idle: 5 days	9 days	fastx-admin@fastx.starnet.com
<input type="checkbox"/>	Default Desktop	Idle: 5 days	7 days	xdemo@fastx.starnet.com
<input type="checkbox"/>	Default Desktop	Idle: 2 days	5 days	peter@fastx.starnet.com
<input type="checkbox"/>	Default Desktop	Idle: 2 hours	5 days	gruba@fastx.starnet.com
<input type="checkbox"/>	Gimp	Idle: 5 days	5 days	gruba@fastx.starnet.com
<input type="checkbox"/>	Default Desktop	Idle: 4 days	4 days	xdemo@fastx.starnet.com
<input type="checkbox"/>	Default Desktop	Idle: 4 days	4 days	xdemo@fastx.starnet.com
<input type="checkbox"/>	Default Desktop	Idle: 3 days	5 days	gruba@fastx.starnet.com
<input type="checkbox"/>	Default Desktop	Idle: 2 days	2 days	peter@fastx.starnet.com

1 to 19 of 19 << < 1 > >> 50

- An administrator can also view the session, get information on the session, and terminate the session.
 - To view the session, click on the name of the session in blue
 - To get information on the session or terminate the session
 - Check the session and an option button will appear on the top left.
 - Click on the option button and then select the desired option

Manage Sessions

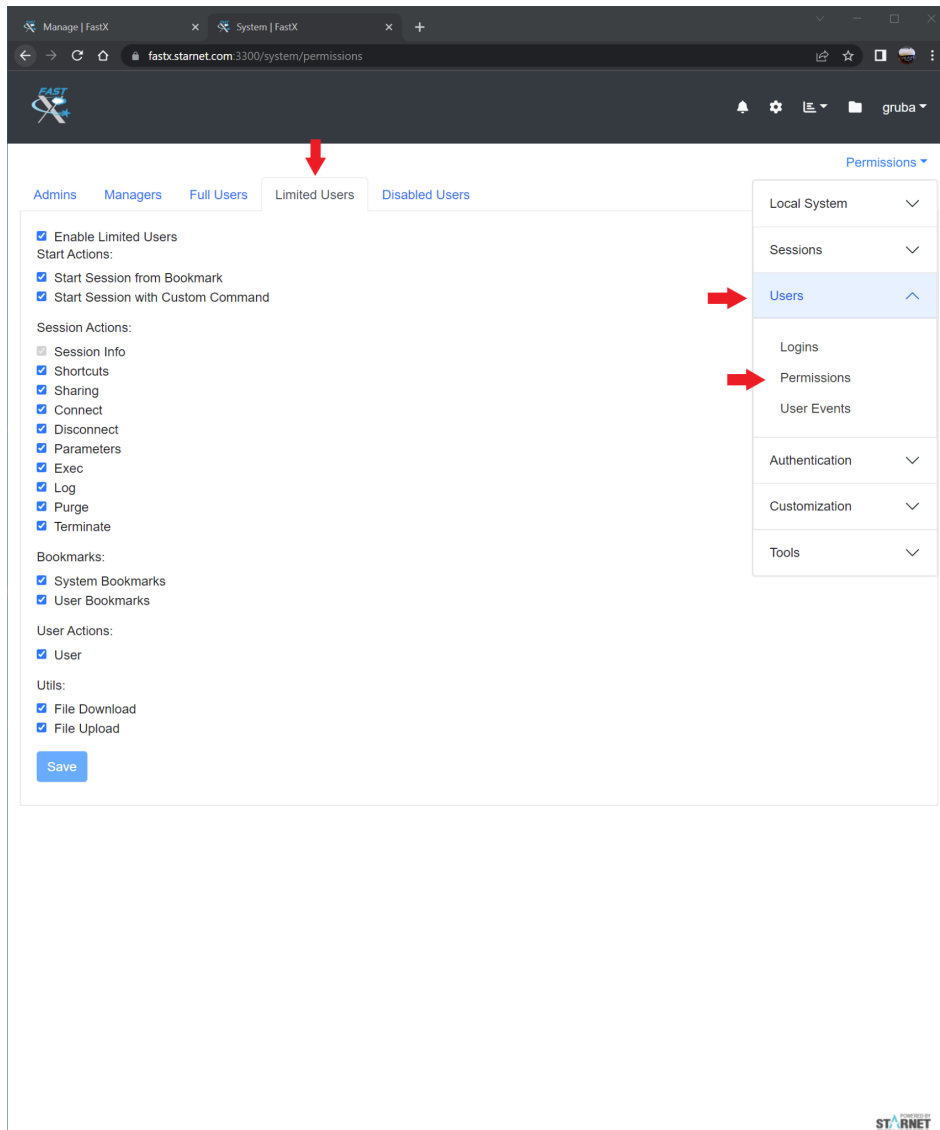
Connected	Uptime	Login
Idle: 18 days	18 days	paul@fastx.starnet.com
Idle: 19 days	19 days	schoch@fastx.starnet.com
Idle: 18 days	2 months	schoch@fastx.starnet.com
Idle: 18 days	23 days	paul@fastx.starnet.com
Idle: 18 days	18 days	paul@fastx.starnet.com
Idle: 18 days	18 days	schoch@fastx.starnet.com
Idle: 19 days	25 days	schoch@fastx.starnet.com
Idle: 18 days	18 days	paul@fastx.starnet.com
Idle: 2 days	23 days	fastx-admin@fastx.starnet.com
Idle: 5 days	2 months	fastx-admin@fastx.starnet.com
Idle: 5 days	9 days	fastx-admin@fastx.starnet.com
Idle: 3 minutes	7 days	xdemo@fastx.starnet.com
Idle: 2 days	5 days	peter@fastx.starnet.com
Idle: 2 hours	5 days	gruba@fastx.starnet.com
Idle: 5 days	5 days	gruba@fastx.starnet.com
Idle: 4 days	4 days	xdemo@fastx.starnet.com
Idle: 4 days	4 days	xdemo@fastx.starnet.com
Idle: 3 days	5 days	gruba@fastx.starnet.com
Idle: 2 days	2 days	peter@fastx.starnet.com

1 to 19 of 19 « < 1 > » 50

How to limit users' FastX actions?

Admins can limit users' FastX actions, such as downloading/uploading, launching a session from the custom command, etc.

- Go to the [System Configuration](#) and go to Users > Permissions.
- Click on the Limited Users tab and uncheck the box of the desired session action(s) a user can do.

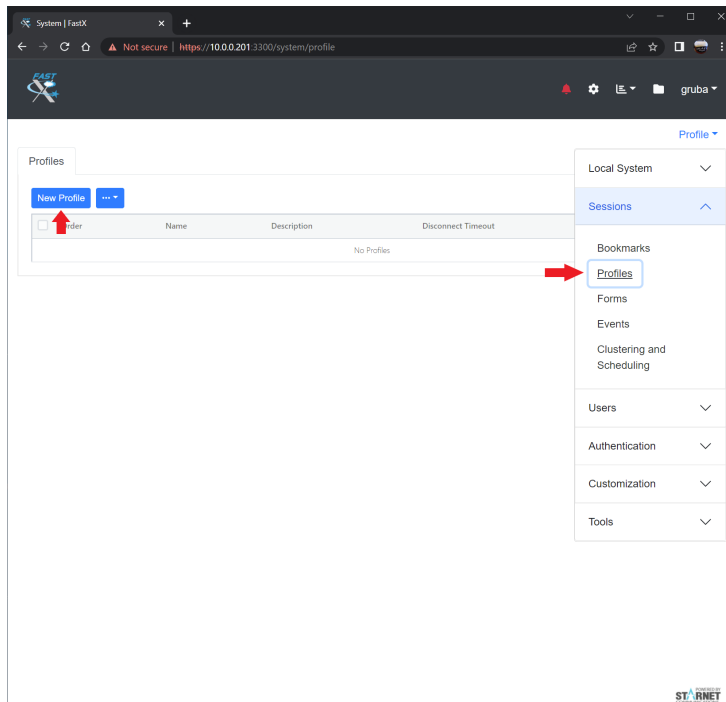


- For more information on Permissions, please go to <https://www.starnet.com/xwin32kb/fastx-3-2-permissions/>

How to terminate a disconnected session after a period of time?

Admins can use Profiles to set parameters for bookmarks. Admins can add additional parameters to bookmarks with Profiles.

- Go to the [System Configuration](#) and go to Sessions > Profiles
- Click the New Profile button
- Name the profile and then go to the Session Settings tab.



- Under the Admin category input the time minutes to terminate the disconnected session. Then hit Submit. (Note: FastX will not automatically terminate a session if the user is connected to it.)

General Session Settings Extensions Event Scripts Static Data Debug

Admin

Update the web server every N minutes regardless of status change

0 minutes

Terminate session after it has been disconnected for a period of time

0 minutes

Clipboard

☒ Enable Client Clipboard

☒ Enable Server Clipboard

Server Clipboard Max Bytes

0 bytes

OpenGL

☐ Enable VirtualGL Detection

☐ Disable GPU Detection for VirtualGL

VirtualGL Options

-c proxy

Compatibility

☐ Save Xauthority cookies to the \$HOME/.Xauthority file

☐ Enable iglx Support

☒ Enable X11 TCP Support

Advanced

Multisurface Support

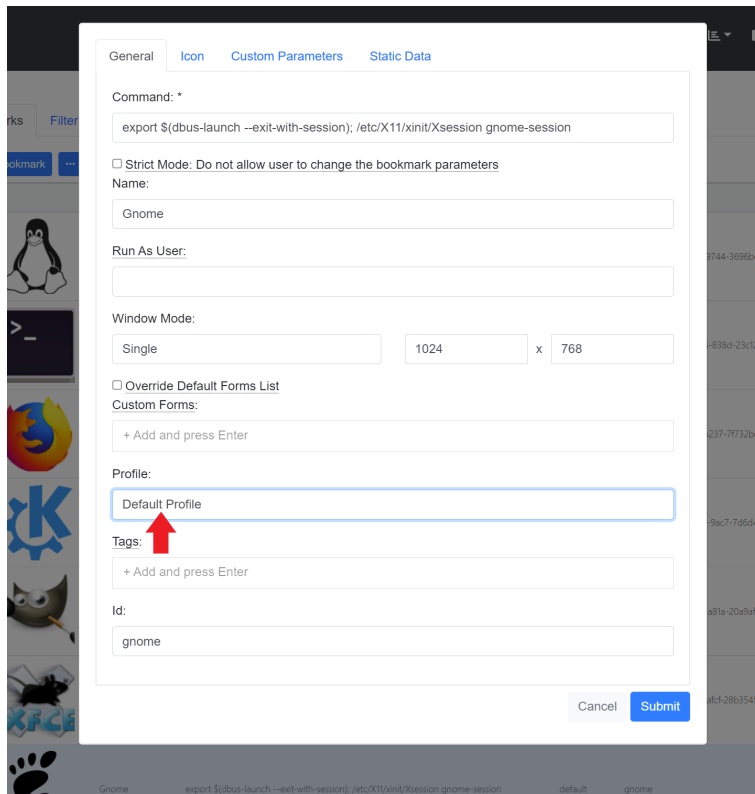
Autodetect

CPU Percentage

Autodetect

Cancel Submit

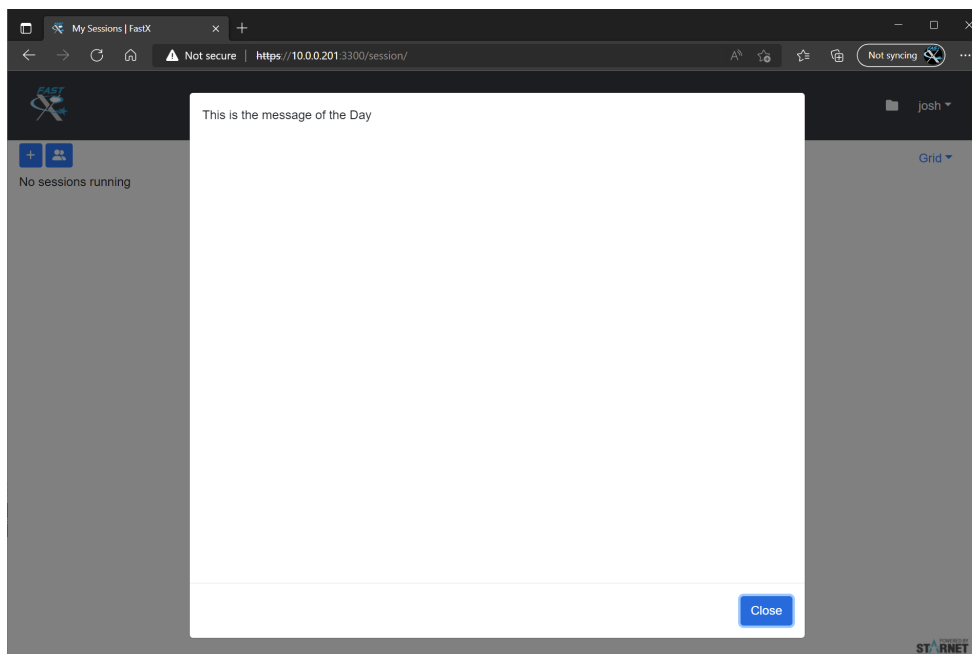
- Next, edit the [bookmark](#) that you want to add the disconnect option to.
- Select the Profile drop down and select the desired Profile and hit Submit.
- If you edit the “Default” profile, the settings will apply to all sessions/bookmarks that don’t specify a different profile.



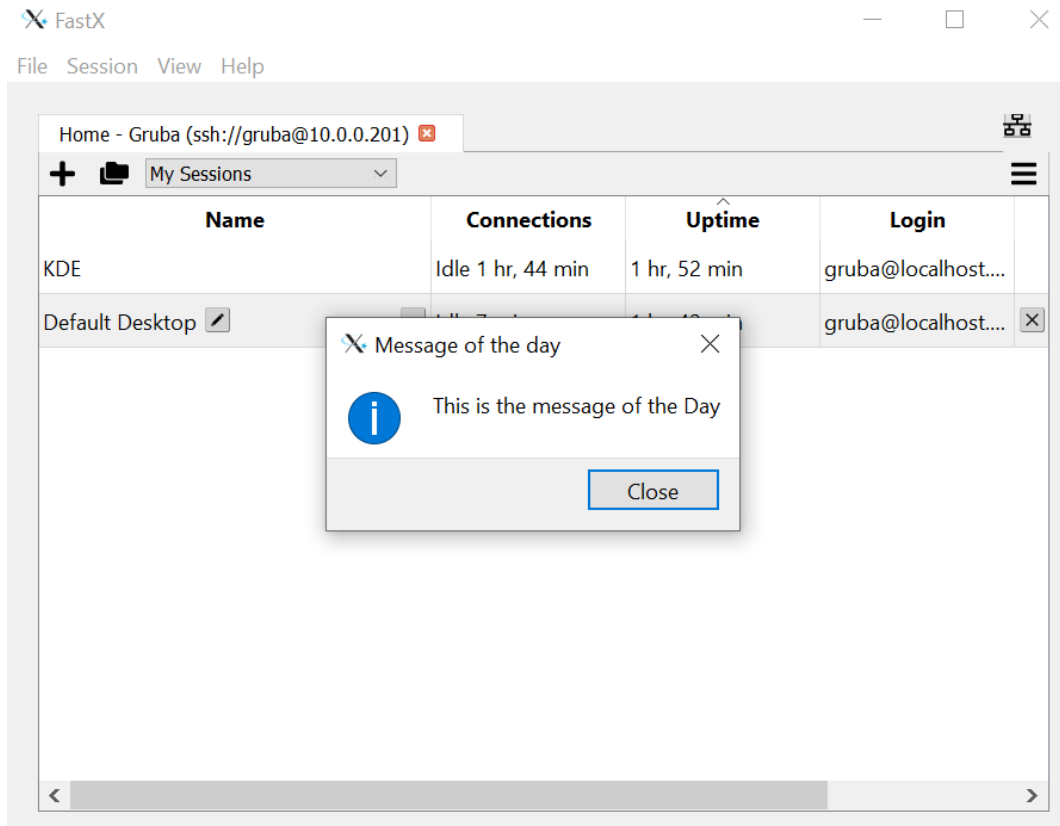
How to send messages to users?

Message of the Day (MOTD) - MOTD will popup right after a user logs into FastX either using the desktop client or browser.

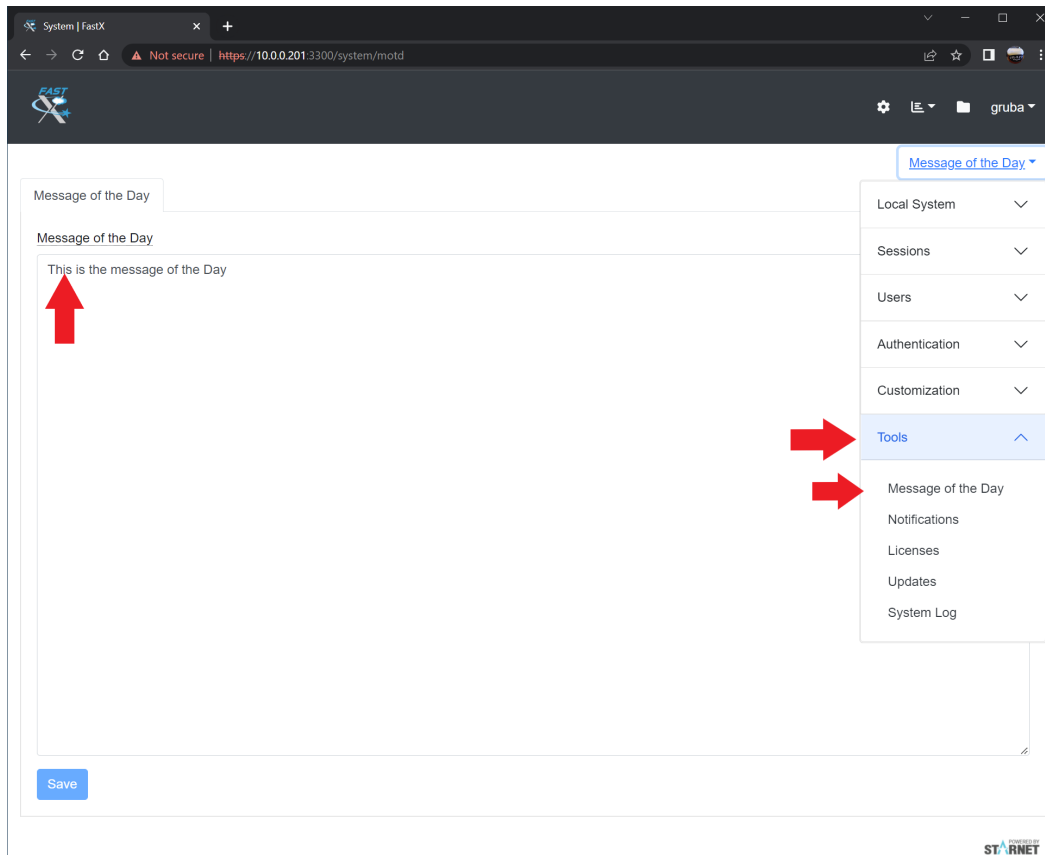
- Browser example



- Desktop Client example

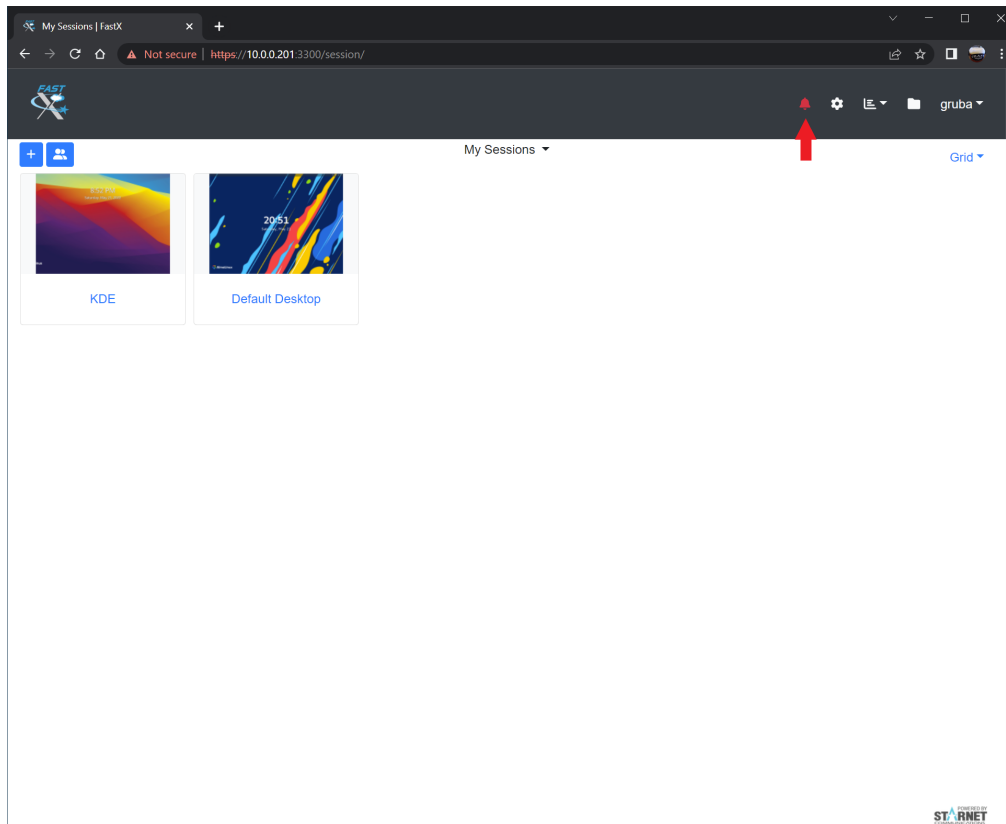


- Create a message of the day by going to the [System Configuration](#).
- Go to Tools > Message of the Day
- Click in the box below the Message of the Day to add a message. Then hit Save.

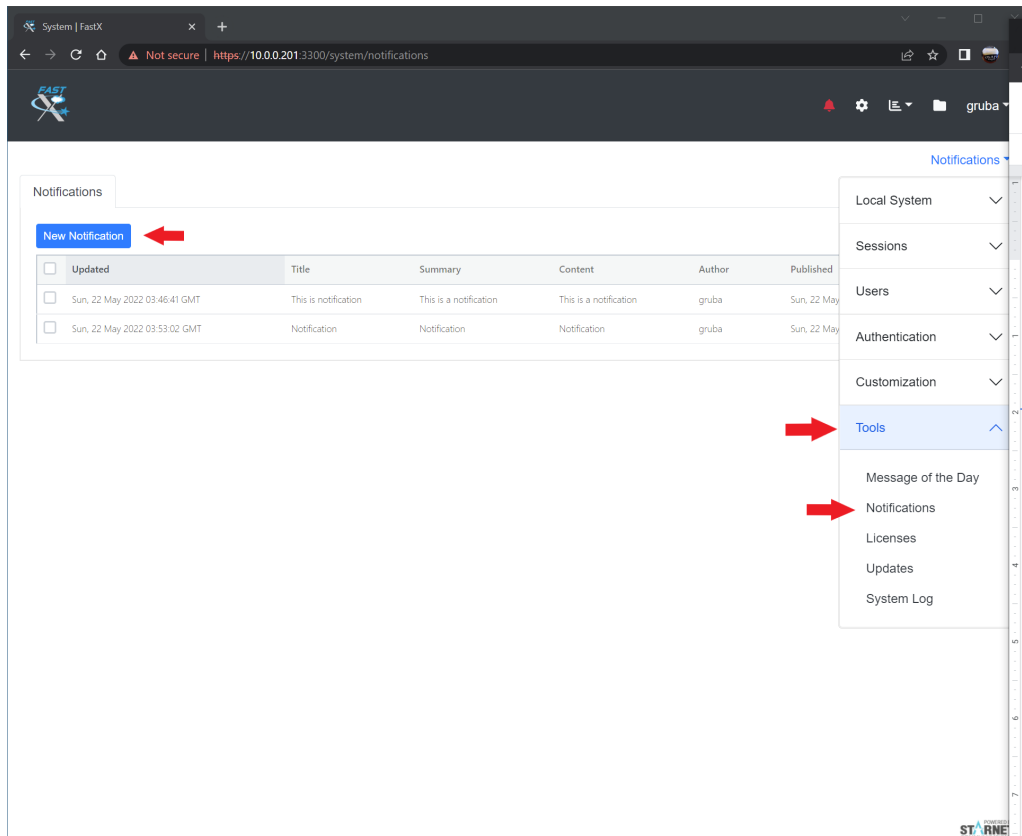


Notifications - Send a notification to users. Users will see a notification icon on the top right after logging in through a browser. (Not available through the desktop client)

- User notification example - users will click on the notification icon to view



- Create a new notification by going to the [System Configuration](#).
- Go to Tools > Notifications
- Click the New Notifications to add a notification



- A notification window pop out will be prompted. Enter the Title, Summary, and Contents. Then hit Submit.

Title *

Summary

Content

☐ This notice is public. Logins not required

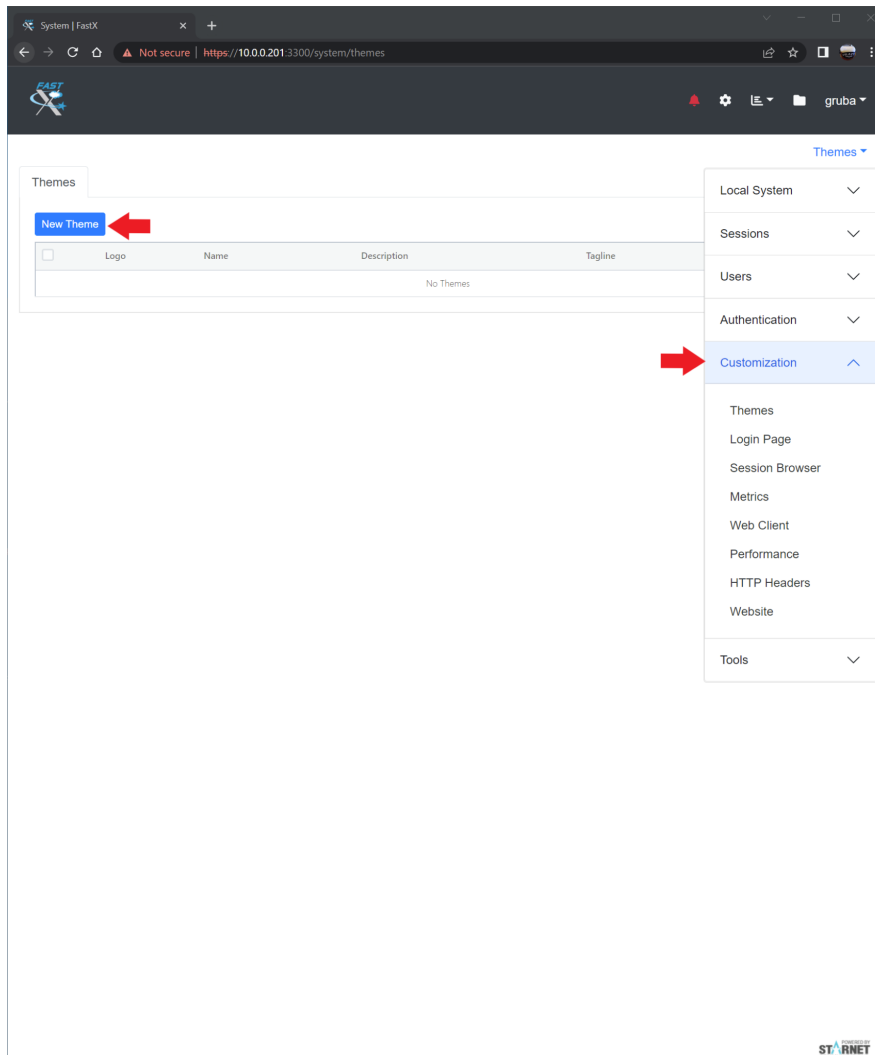
Cancel

Submit

How to set up a Theme?

FastX Theme customizes the look of the FastX web browser client. Admins can add logos and change the color scheme.

- Go to the System Configuration, and go to Customization > Themes
- Click on the button New Theme



- New Theme pop up will be prompted. Enter Name of the theme.
- Then edit the theme in the following tabs
 - Branding - Logo used on the login page and icon on the top left after logging in.
 - Background - Background image of an active session.
 - Login - Background image on the login page
 - Colors - Color scheme

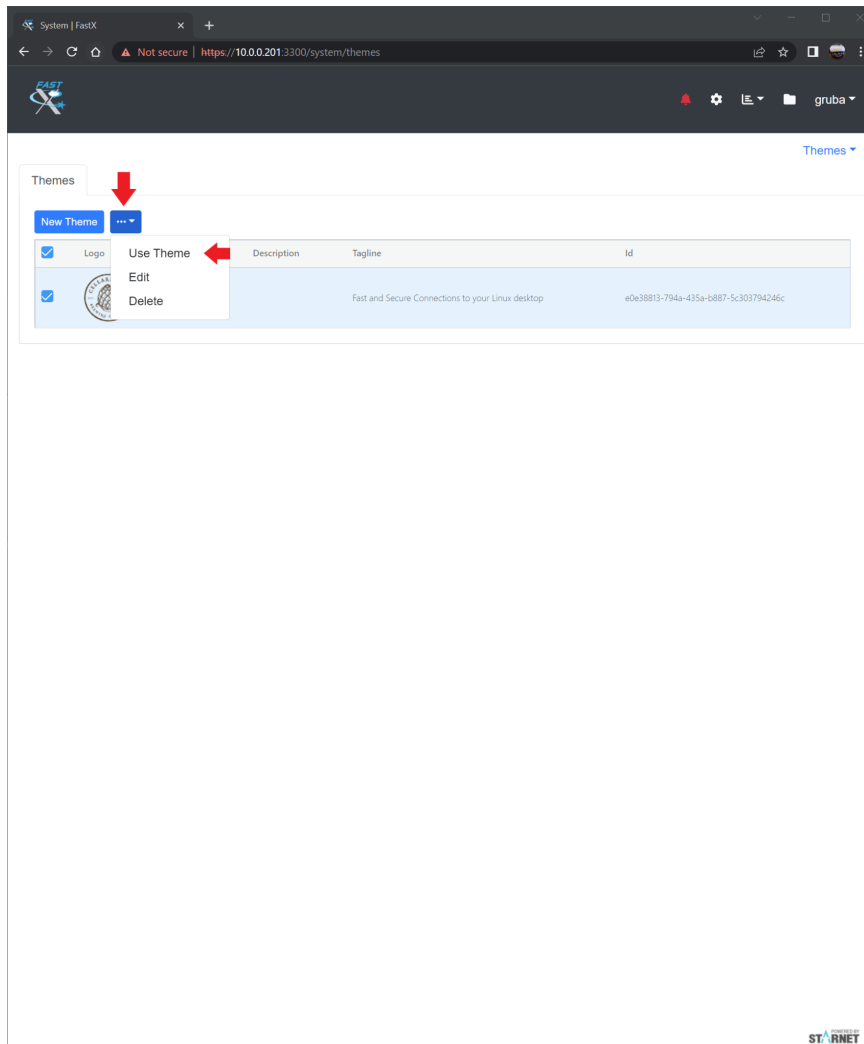
General Branding Background Login Colors Custom

Name *

Description

Cancel Submit

- Hit the Submit button to Save. The new theme will be listed in Themes.
- Single click on the new theme and then click on the option drop that will appear to the right on the New Theme button.
- Click Use Theme



How to set up a cluster manager?

Each FastX cluster member (compute node) contacts the cluster manager, which operates as a broker transport. The cluster manager also provides the database store, which could even be on a different system. Cluster managers can be duplicated in a load-balancing/redundant configuration, but this is beyond the scope of this document.

The cluster manager may also be a cluster member (e.g. FastX is also installed), but this is optional. If FastX is not installed, the setup script will download the necessary FastX microservices files.

Download and run the FastX cluster installation script from

<https://www.starnet.com/files/private/FastX3/setup-fastx-cluster-secure.sh>

You can also run it by typing:

```
curl -sL https://www.starnet.com/files/private/FastX3/setup-fastx-cluster-secure.sh | sudo bash -
```

This will produce a broker.json file in the FX_CONFIG_DIR directory. If you don't have FastX installed on this machine, this will be in the directory `/etc/fastx/`

Edit `/etc/fastx/broker.json` Change the "host" field to the hostname of your cluster manager. For example

```
{
  "transporterType": "redis",
  "password":
    "s4j5D4RGwm2zrbit93SAobvxgikGEZkP259ivD6RPrkvWEYA5VP5WAFelTLJn4EO",
  "host": "hostname.example.com",
  "port": 6379,
  "rejectUnauthorized": false,
  "namespace": "fastx-cluster"
}
```

If the cluster will communicate over the Internet, you should get a certificate for the cluster manager server. The `setup-fastx-cluster.sh` script will create a self-signed certificate. When you get your CA-issued certificate, edit the file `/etc/redis.conf` to change the `tls-*` file lines.

Open port 6379/tcp in the firewall. (Run `firewall-cmd --permanent --zone=public --add-port=6379/tcp; firewall-cmd --reload`) This will let the compute nodes communicate with the cluster manager.

[More information click here.](#)

How to upload the configuration from Standalone to a Cluster?

Uploading Configuration from a Standalone to a Cluster

Once your cluster manager is set up, you may want to migrate your configuration into the cluster. FastX ships an upload tool to take a standalone configuration format and upload it into a running cluster.

1. Make sure the cluster manager is running.
2. Run the command: **`/usr/lib/fastx/3/nodejs/bin/node /usr/lib/fastx/3/microservices/tools/upload-store.js config --bjf /etc/fastx/broker.json --dir /var/fastx/local/store`**
3. If you have multiple FastX servers in your cluster, run the previous command only on one server. The configuration will be overwritten every time the `upload-store.js` script is run.

Downloading Configuration from a Cluster

The configuration will be downloaded into separate JSONL files that are readable by the standalone installation.

1. Make sure the cluster manager is running.
2. Run the command: **`/usr/lib/fastx/3/nodejs/bin/node
/usr/lib/fastx/3/microservices/tools/download-store.js config --bjf
/etc/fastx/broker.json --dir /var/fastx/local/store`**

More information: <https://www.starnet.com/xwin32kb/fastx-3-2-configuration-managment/>

Where do I find additional documentation?

<https://www.starnet.com/xwin32kb/fastx-3-2/>

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