

1

Launch Elephant Docker (via SSH Jump Host)

1. Open an SSH client (e.g. PuTTY, Terminal)
2. `$ ssh -J [USERID]@192.87.138.20:3867 [USERID]@srv-lnx-sonn1`
3. `$ cd /opt/elephant_server/elephant-server-0.4.2`
4. `$ make ELEPHANT_DOCKER="sudo docker" launch`

4

Terminate Elephant Docker

1. Return to the first SSH client
2. Make sure the connection is still alive (see Slide 3)
3. CTRL + C



Docker

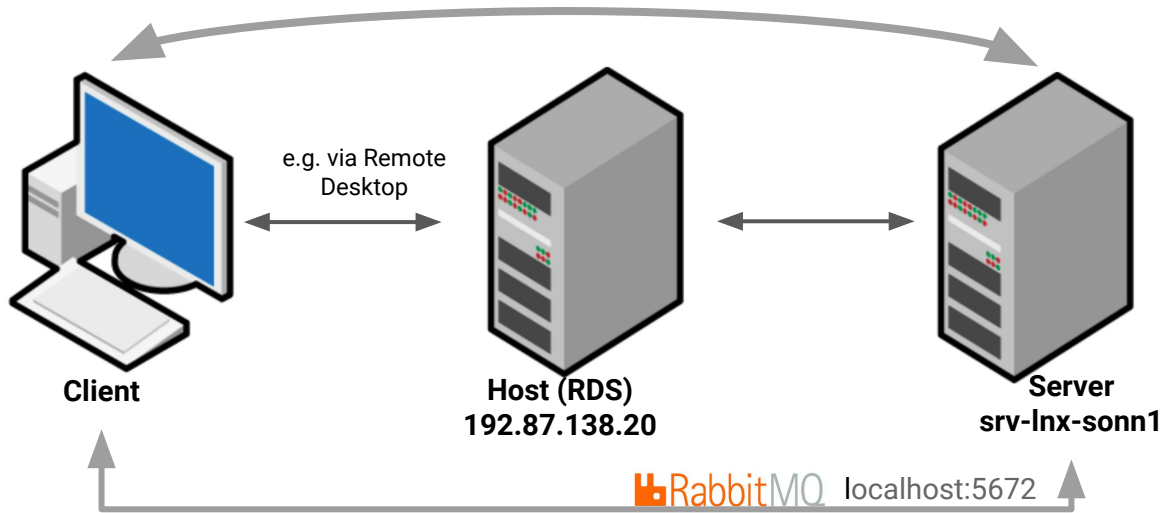
localhost:8080

3

Launch Fiji, Mastodon



Elephant client



2

SSH port forwarding to Elephant Docker and RabbitMQ

1. Open another new SSH client (e.g. PuTTY, Terminal)
2. `$ ssh -f -N -L localhost:5672:srv-lnx-sonn1:5672 -J [USERID]@192.87.138.20:3867 [USERID]@srv-lnx-sonn1`
3. `$ ssh -f -N -L localhost:8080:srv-lnx-sonn1:8080 -J [USERID]@192.87.138.20:3867 [USERID]@srv-lnx-sonn1`

To verify step

2

```
$ ssh -f -N -L localhost:8080:srv-lnx-sonn1:8080  
-J [USERID]@192.87.138.20:3867  
[USERID]@srv-lnx-sonn1
```

ELEPHANT Control Panel

ELEPHANT server Available http://localhost:8080

RabbitMQ Unavailable amqp://localhost:5672

Connection refused (Connection refused)

GPU ID	Name	Memory-Usage
0	Quadro RTX 4000	1798MiB / 8192MiB

Help Set up in Colab -> [Open in Colab](#)

SSH user: root SSH host: 0.tcp.ngrok.io SSH port: 22

Local port: 8080 Remote host: localhost Remote port: 80

Add Port Forward

SSH host	Forwarded ports
-	-

```
$ ssh -f -N -L localhost:5672:srv-lnx-sonn1:5672  
-J [USERID]@192.87.138.20:3867  
[USERID]@srv-lnx-sonn1
```

ELEPHANT Control Panel

ELEPHANT server Available http://localhost:8080

RabbitMQ Available amqp://localhost:5672

GPU ID	Name	Memory-Usage
0	Quadro RTX 4000	1798MiB / 8192MiB

Help Set up in Colab -> [Open in Colab](#)

SSH user: root SSH host: 0.tcp.ngrok.io SSH port: 22

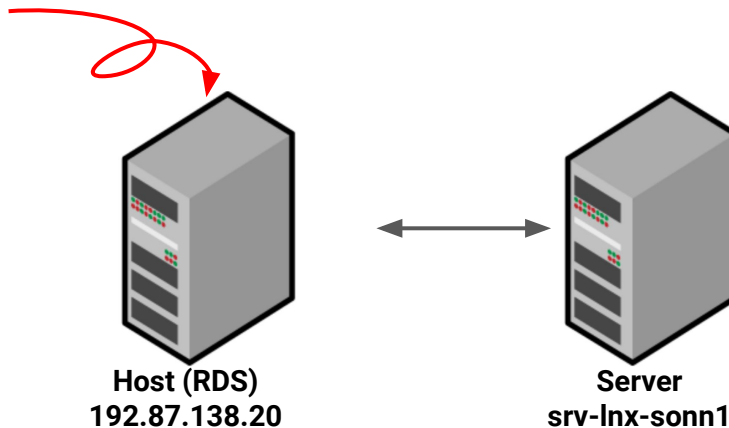
Local port: 8080 Remote host: localhost Remote port: 80

Add Port Forward

SSH host	Forwarded ports
-	-

Potential issue: The middle guy
has a timeout

Consequence:
Elephant server
will be terminated prematurely



One of the solutions: Use **GNU Screen**

Replace step **1** with

1. Open an SSH client (e.g. PuTTY, Terminal)
2. `$ ssh -J [USERID]@192.87.138.20:3867 [USERID]@srv-lnx-sonn1`
3. `$ screen -S nameofscreen` (You will enter a new session/screen)
4. `$ cd /opt/elephant server/elephant-server-0.4.2`
5. `$ make ELEPHANT_DOCKER="sudo docker" launch`

Optional:

- On your keyboard, press **CTRL + A** together and release, then press **D** and release (to detach the session)
- `$ screen -r nameofscreen` (to reattach the session)

Friendly info page:

<https://linuxhint.com/screen-linux/>

Official info page:

<https://www.gnu.org/software/screen/manual/screen.html>