Instructions for LA technical bootstrap support sessions

Option A - Demo service deployments

Prerequisites

- Each participant will share a ssh public key with @vjrj
- `ssh` access to non standard 22 port (try if it works for you something like `ssh -p 22122 ubuntu@lupulo.gbif.es)`. If this is not possible for you, just comment on it before the session.
- Some Unix-like system usage, networking and git knowledge (like ssh, editing with terminal, etc)

We'll configure these keys in a launch server, where the sessions will happen. Please verify the access before the session.

Shared space

Depending on the participants, we can choose to use:

- a shared text terminal or
- a graphical shared terminal

So all participants will interact with the same windows (text or graphical). If you feel comfortable with text based terminals, we recommend it.

For using the text terminal we recommend something like `gnome-terminal` or similar in GNU/Linux distros or `iterm2` for Mac, etc. We'll choose the preferred text editor for edit the configuration files (vim, emacs, nano, etc).

If we choose to use a graphical session instead of a text based session, each participant have to install a `x2go` client (`sudo apt install x2goclient` in debian/ubuntu).

Chat space

We can chat during the session, for instance via a thread in our slack channel or using a xmpp room, irc, telegram groups or similar.

Option B - Production service deployments

With similar requirements but the production servers should allow ssh access to the launch server via ssh for a ubuntu user with sudo privileges. Follow the Before-Start-Your-LA-Installation recommendations and the rest of the LA Quick Start Guide.

Terminal shared sessions: Using ssh + byobu

Try to access to the launch server:

```
ssh -p 22122 ubuntu@lupulo.gbif.es
```

Byobu will be installed in the launch server (see the bottom bar) so you only need to know some basic shortcuts:

- F3/F4 or Alt+Left/Alt+Right: to move between windows
- Alt+Up/Alt+Down: to move between shared session or personal sessions
- F8: Rename current window tab
- F2: Add new window (if necessary)

More info in the byobu documentation but it should not be necessary.

After accessing the first session and windows are shared between participants, if you type something or if you move with F3/F4 between windows, all participants will see the same like you in the terminal.

Single user terminal session

You can access also without sharing the terminal with others participants, if you want to inspect some configuration file on your own with:

```
LC_BYOBU=0 ssh -p 22122 ubuntu@lupulo.gbif.es
```

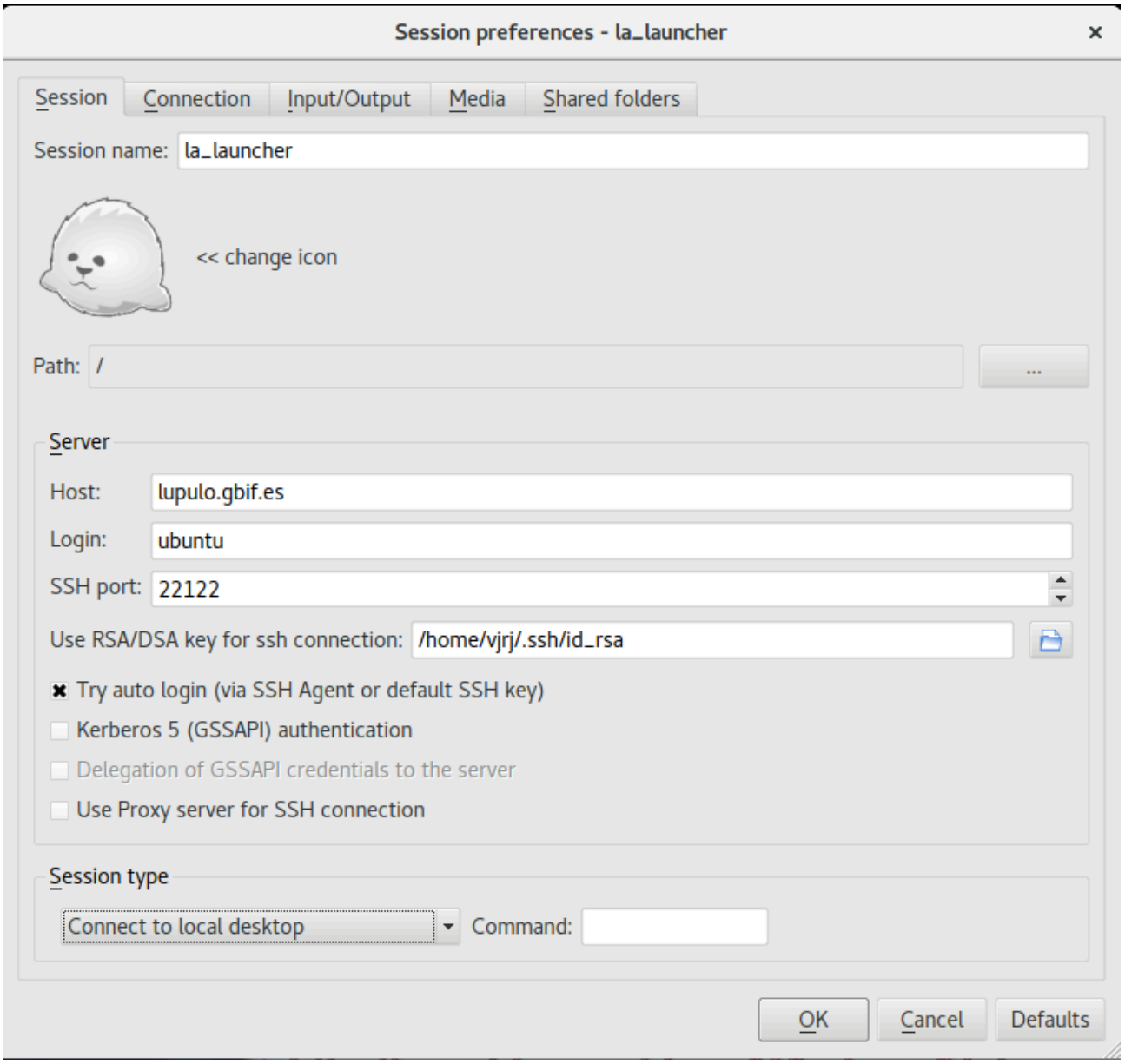
Graphical shared sessions: Using x2goclient

First of try to using x2goclient, try to ssh access to the launch server using your ssh public key (shared previously to the session with @vjrj) using a basic ssh client:

```
ssh -p 22122 ubuntu@lupulo.gbif.es
```

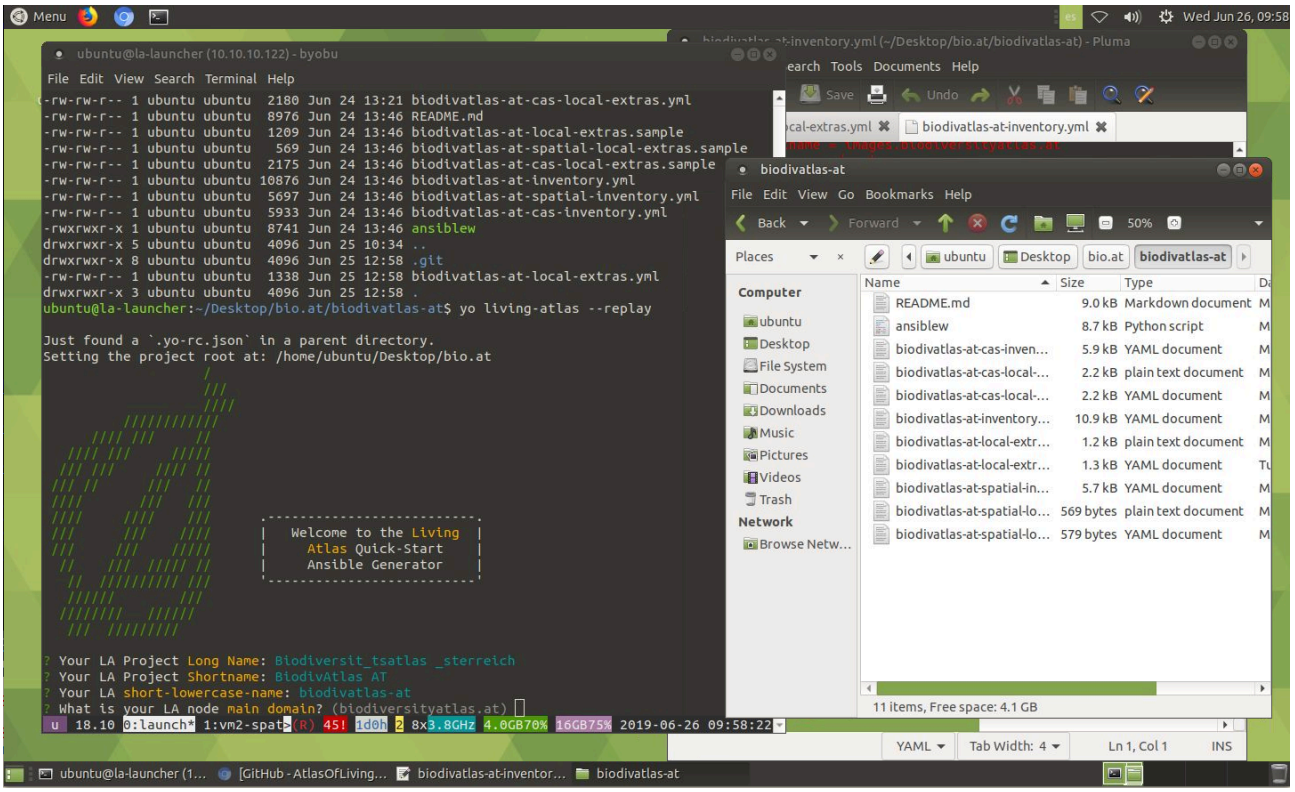
When this is working you can try the same using `x2goclient`.

Here a screenshot of how to configure and access to our launch server (try to use similar options, host, port, user ubuntu, your ssh private key, MATE desktop, “Try auto login”, etc):



You will get a shared graphical session. If you find a locked sessión, you can unlock it with “hoaxharmonica” password.

A screenshot of the Austria session:



Demo VMs from gbif.es

Furthermore the launch server, and depending on the necessities of each national portal, we'll use several demo machines.

A typical demo installation consists of:

- A main VM for install basic services and and a landing page
- A second VM with basic services like collectory and/or biocache, etc
- A third VM with the rest services (BIE, species lists, etc)
- A spatial service VM
- A CAS auth service VM

ssh access to these VMs

From the launch server, we'll have easy access to these machines via the ubuntu user.

This ubuntu user will have sudo permissions in the VMs (see `/home/ubuntu/.ssh/config` in the launch server for details).

http/s access to these VMs

We'll access to our deployed services from our browsers.

For this, instead of configuring the DNS, we usually edit our local `/etc/hosts` (or equivalent depending on your operating system).

A typical configuration for some living-atlas.wk fictional domain:

```
88.99.95.59 living-atlas.wk # main landing page & services
88.99.95.59 collections.living-atlas.wk
88.99.95.59 records.living-atlas.wk
88.99.95.59 records-ws.living-atlas.wk
88.99.95.59 species.living-atlas.wk
88.99.95.59 species-ws.living-atlas.wk
88.99.95.59 lists.living-atlas.wk
88.99.95.59 logger.living-atlas.wk
88.99.95.59 auth.living-atlas.wk
88.99.95.59 spatial.living-atlas.wk
```

But will try to use your definitive national domain instead and your selected services and urls to deploy.

The IP 88.99.95.59 is the IP of one of our proxies that will redirect our http petitions to these VMs.

Temporal access to gbif.es VMs

As we'll share these resources, that is, this launch server and these demo VMs with other national portals, access will be limited to the sessions and some days after the end of the session.

Generated configurations

The deployment configurations generated in the sessions for each portal will be available for each portal and can be used to deploy & re-configure the definitive production services. Also to update the services in the future.