The Principle

One server – different types of clients

Main: client running usually on the same machine as the Nomad server

Remote: client on a real machine located in the dedicated building

Tablet
Connection Rules

A session is associated with an instrument. The rules depend on the type of client:

- **Main**: the session is accessible as usual with normal instrument login/password. Only a session to the associated instrument can be open.

- **Remote**: the user can open a session on any instrument for which he has access. The right is given by the Data Policy:
  - The user enters (username, password, instrument).
  - The user is part of ILL staff: in all cases access is authorized.
  - The user is not part of ILL staff:
    - The user is part of the current proposal: access is authorized.
    - The instrument is in internal use: access is denied.

- **Tablet** has no rule for opening a session

Change of proposal will disconnect all clients
Change Of Proposal

MAIN
User can change the proposal if he has the token and no command is running. When changing the proposal, simulated servers are stopped, etc… Remote client is notified and disconnected

REMOTE
User cannot change the proposal
New On The Interface
Read-Only VS Read Write
Read-Only VS Read Write
Token Strategy

- Only one client has the right to modify the server at a time

- The token has 3 states: owned, free, taken

- The token can be released:
  - Manually: the user releases the token
  - Automatically: after a timeout
  - When a client is starting, it acquires automatically the token if it is free

- Acquiring the token depends on the type of client:
  - Main: at any time, it will acquire the token even if it is already owned by another client
  - Remote: can acquire the token if it is not already owned
The Chat

LOCATELLI
\~\~\~/\~\~\~
\~/\~
19 Jun, 14:30

666655555
19 Jun, 14:30

1234567890
19 Jun, 14:30

ORTIZH
ccc
19 Jun, 14:31

SONGG
深度学习
19 Jun, 14:35

ELAAZZOUI
/r/r
19 Jun, 14:36

Current tab TestTab
Network Infrastructure

Data Analysis, in the cloud.
VISA makes it simple to create compute instances and analyse your experimental data using just your web browser.

Access your data
Access directly your experimental data.

Analyse your data
Create a new compute instance and use your web browser to access a remote desktop to start analysing your data.

No need to install software
The compute instances come with pre-installed data analysis software.

Questions?
Contact the ILT services at data@ill.fr for more information.

visa.ill.fr
VM are destroyed after 15 days or after 4 days of inactivity
Create Your VM

Select a proposal
Chose the type of VM
Allocate resources to the VM
Create Your VM

Be patient: it takes a few minutes to create your VM!
Start NOMAD GUI

This machine is to be used for data analysis purposes only.

Do not use this machine for personal use such as internet banking, emails, social
networks etc.

Please contact data@ill.eu for technical assistance and feedback.

or type “nomad-remote” on a terminal.
LOGIN

This machine is to be used for data analysis purposes only.

Do not use this machine for personal use such as internet banking, emails, social networks etc.

Please contact data@ill.eu for technical assistance and feedback.

As a remote client, you must login to run Nomad.

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THE EUROPEAN NEUTRON SOURCE

data@ill.eu for technical assistance

Login: mutti
Password: [hidden]
Instrument: D7

LOGIN
NOMAD REMOTE

Start driving your experiment remotely...
NOMAD REMOTE

Clients are fully independent therefore you can:

- Customize your spies
- Open/close any type of plot
- Create user’s workflows which are then visible and usable by any other client
- Access the log viewer and the parameter survey
- Run simulations
NOMAD REMOTE

- **VNC** will disappear:
  - Insecure
  - Untraceable
  - Consumes a lot of resources

- **NomadRAC** will provide the possibility to activate de remote modality
  - Only available for instrument responsible