



EOS GUI

Simple way for EOS management

Gregor Molan, Comtrade 360

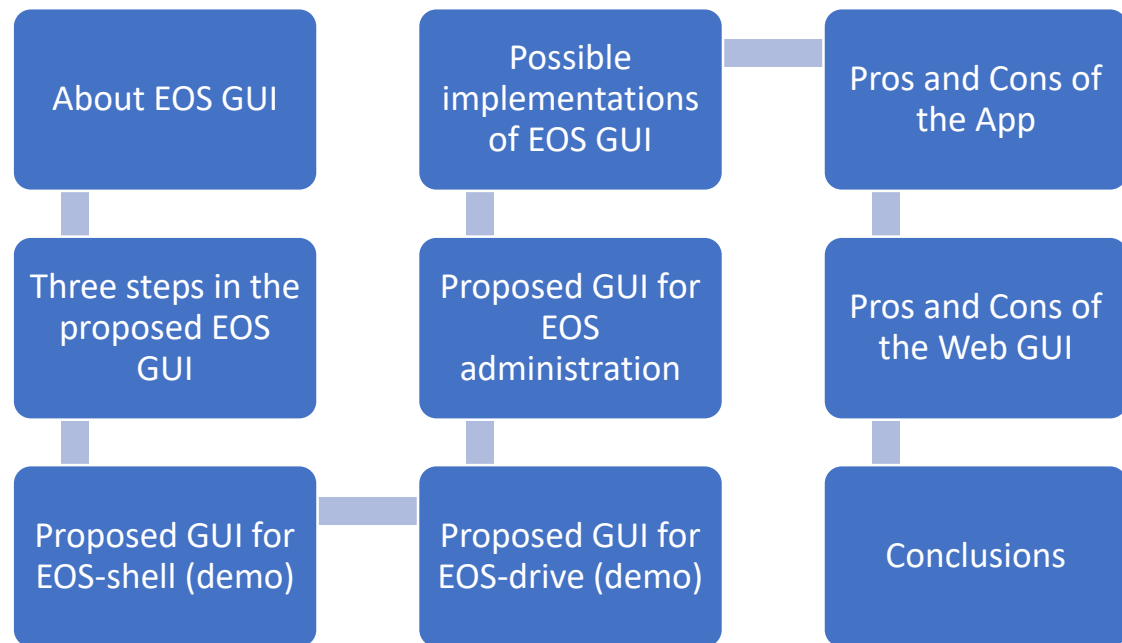
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27 Apr 2023, 11:05

CERN EOS Workshop 2023, Gregor Molan, Comtrade

Agenda



About EOS GUI

EOS cluster mounted as Windows drive letter

01

EOS-shell

Smart interface to EOS commands

02

EOS-drive

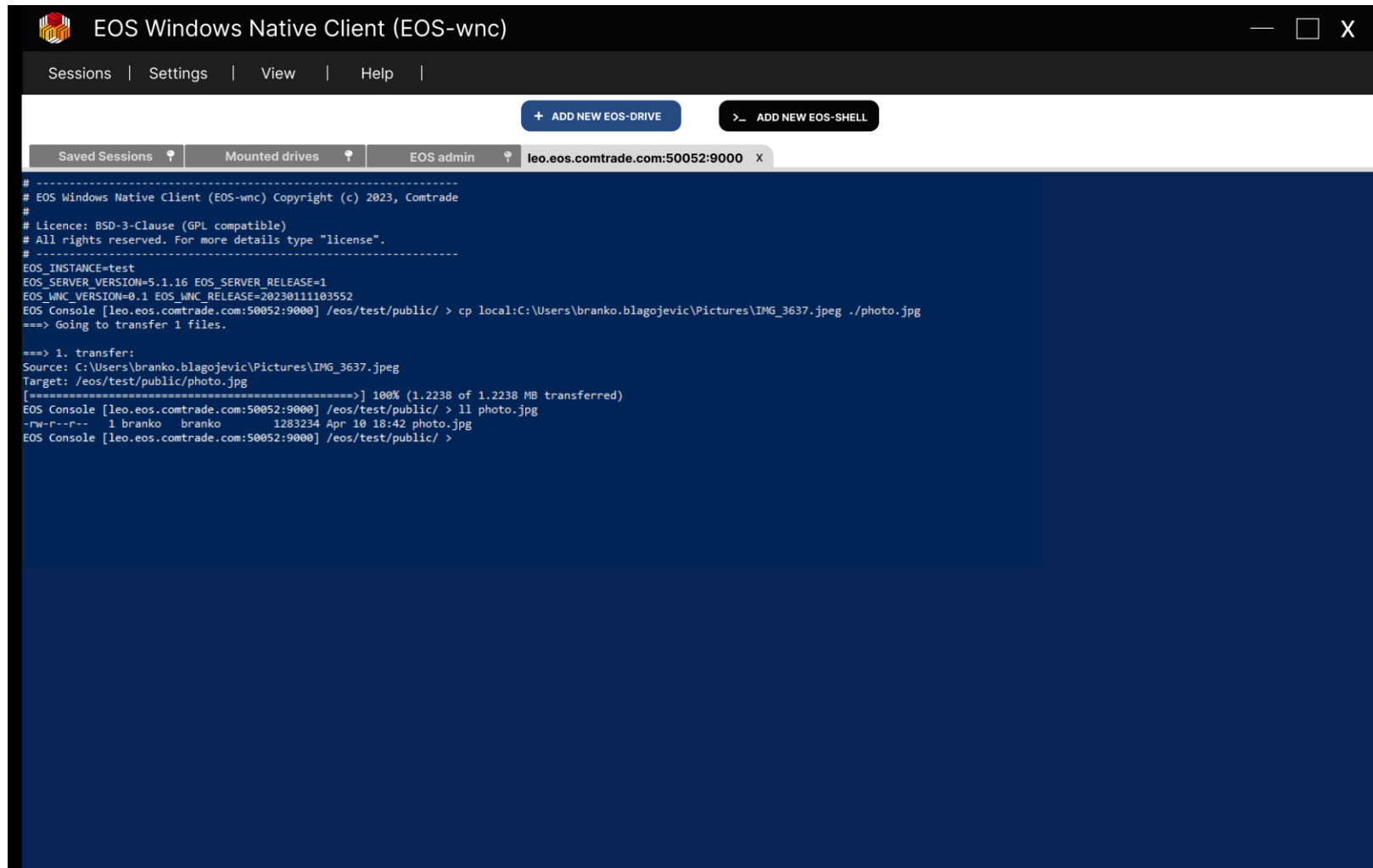
EOS cluster mounted as Windows drive letter

03

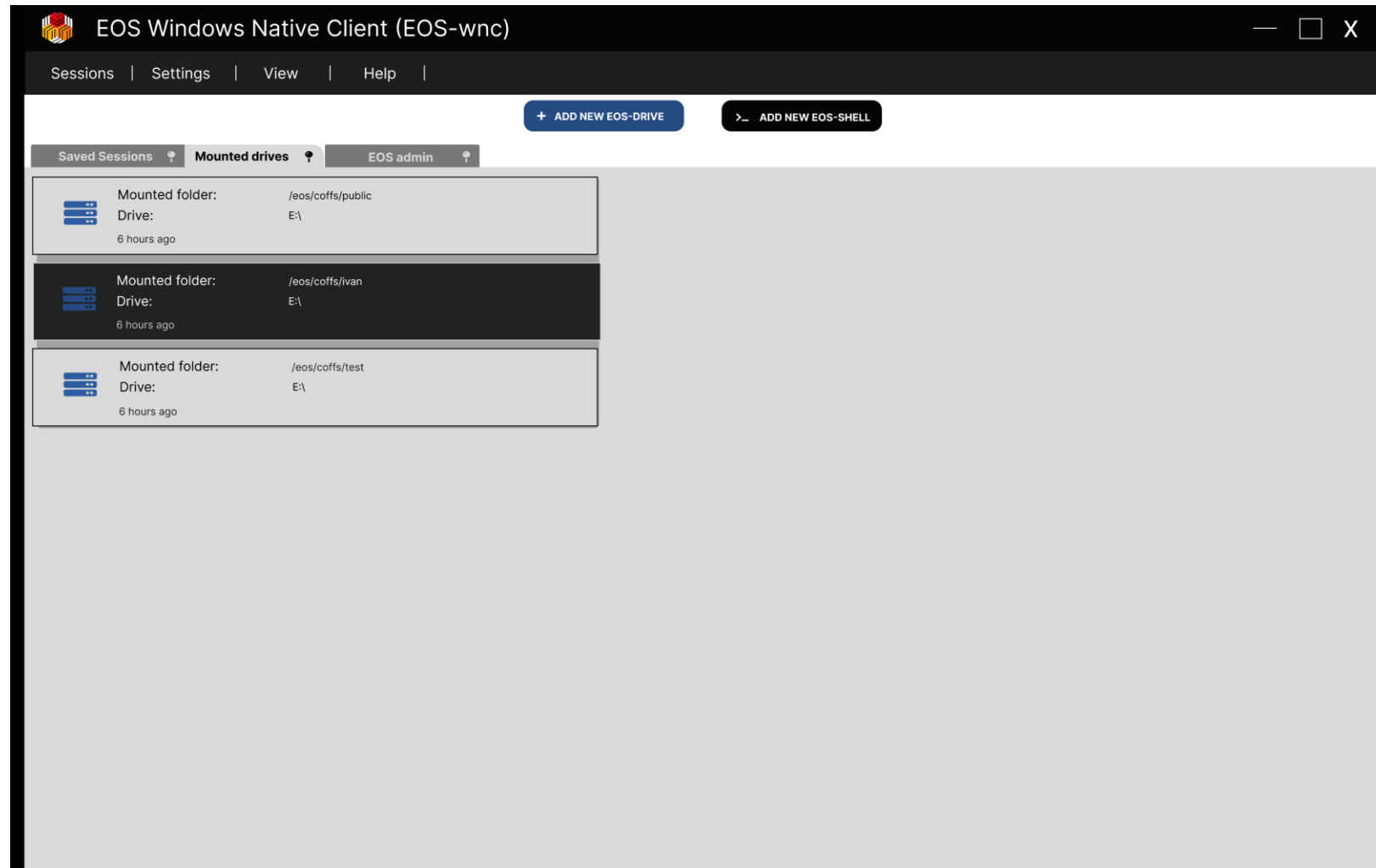
EOS-app

All functionalities of EOS presented as GUI

Proposed GUI for EOS-shell (demo)



Proposed GUI for EOS-drive (demo)



Proposed GUI for EOS administration

Access

Client access

Namespace

Namespace operations

Virtualization

*Fault tolerance and
balancing*

Security-Access

Security and access

Geo-scheduling

*Geo-scheduling and
balancing*

Scaling

Large-scale env

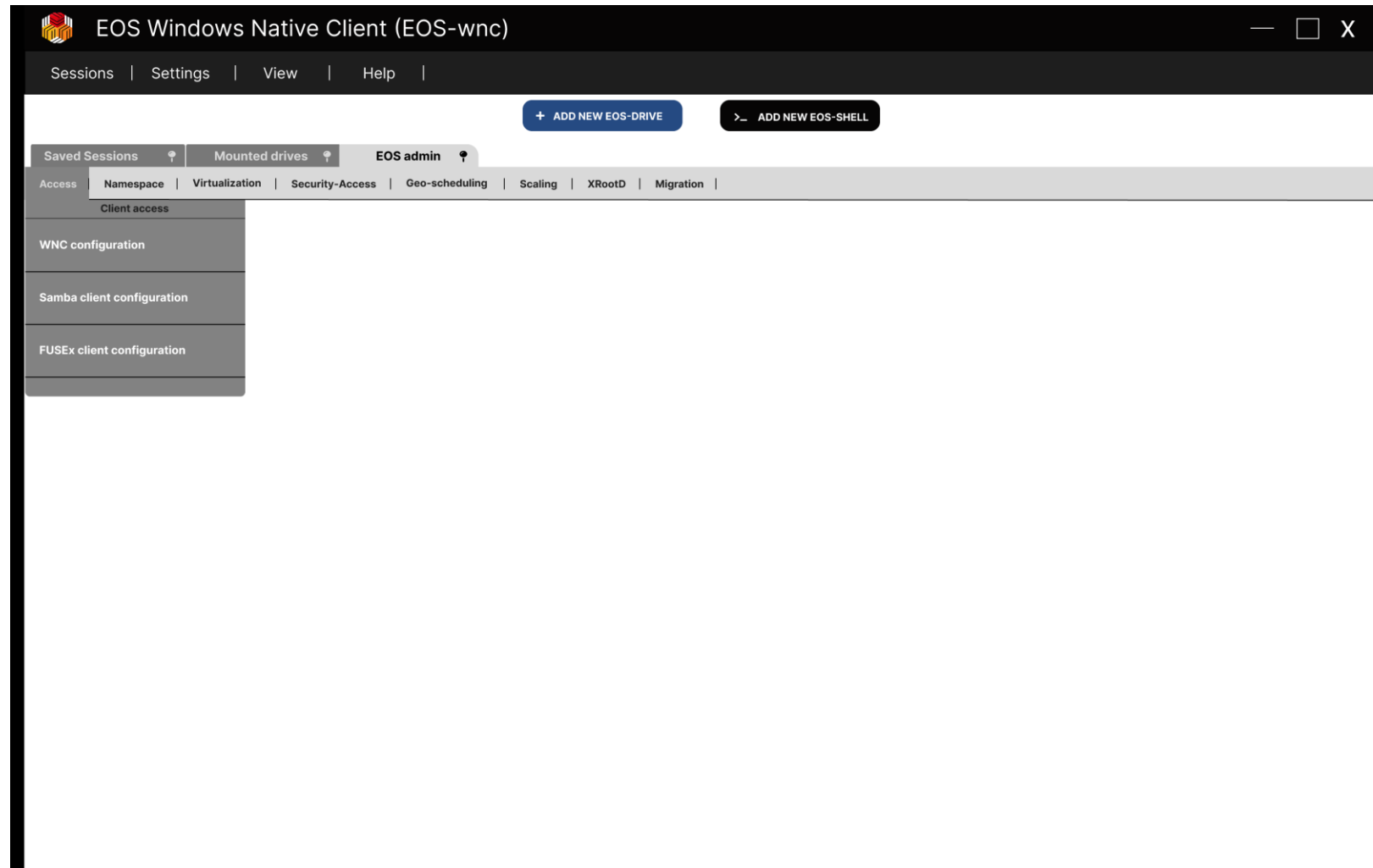
Plugins

Plugins and XRootD

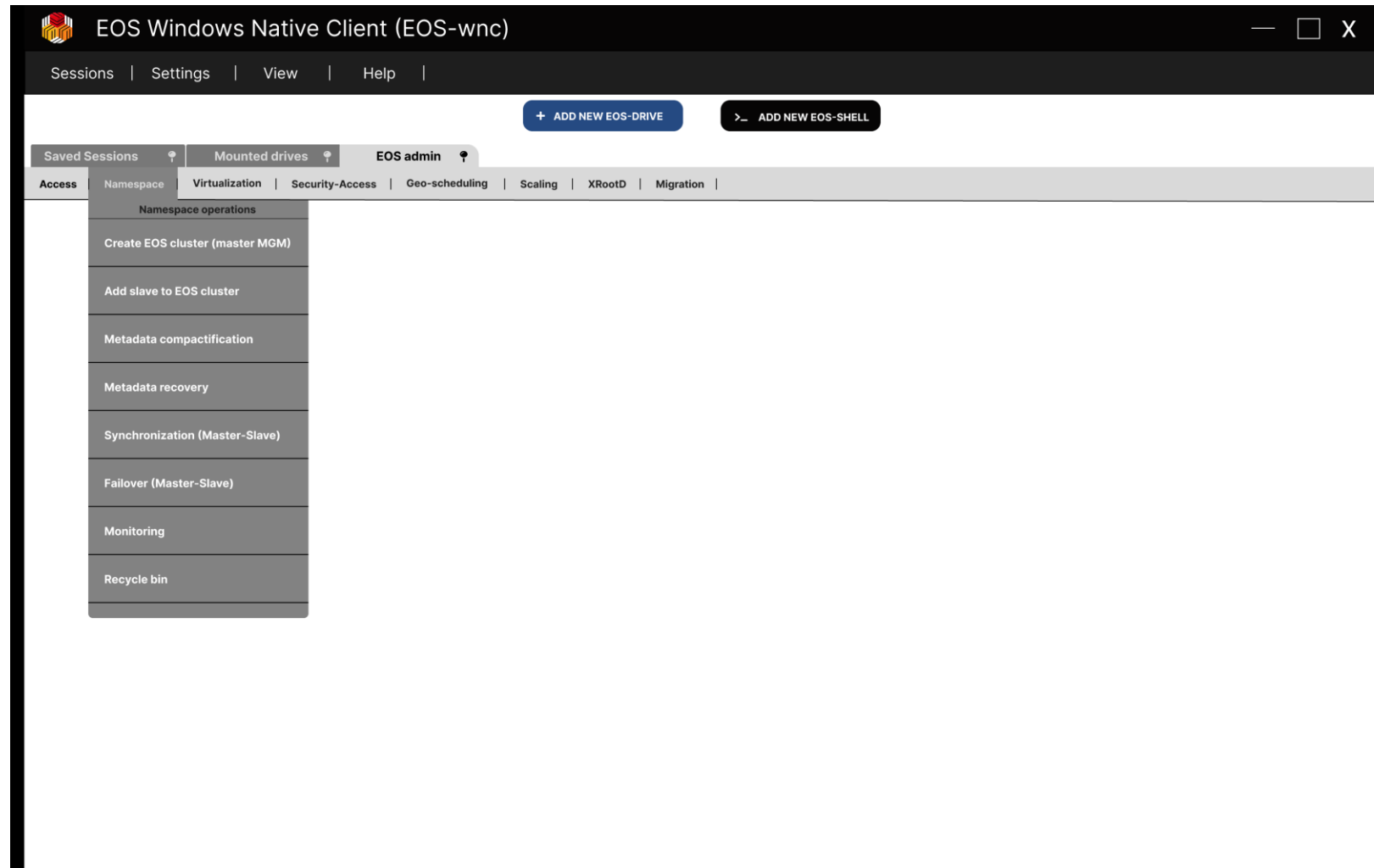
Migration

Upgrades and Migration

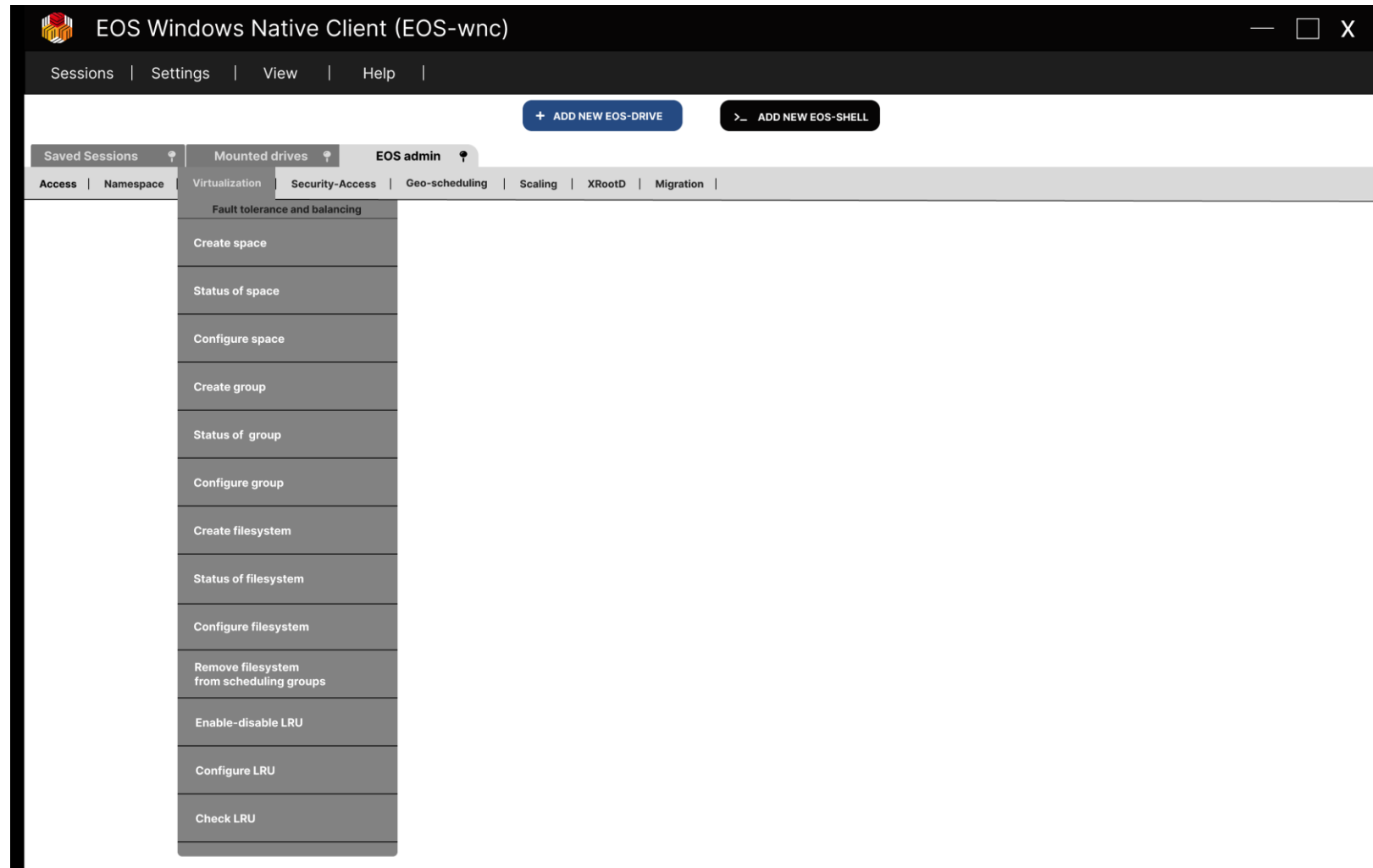
Proposed GUI for EOS administration (demo)



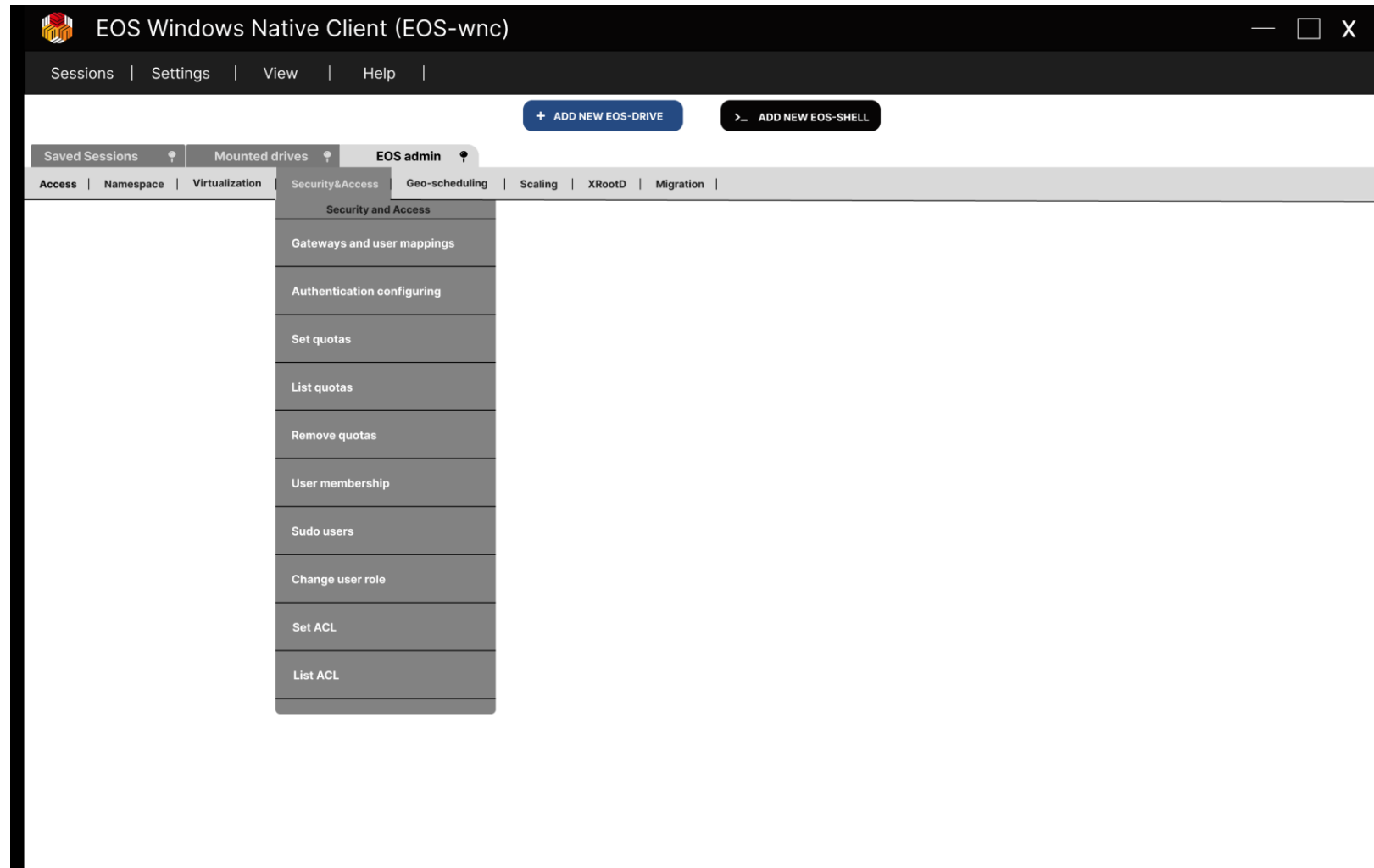
Proposed GUI for EOS administration (demo)



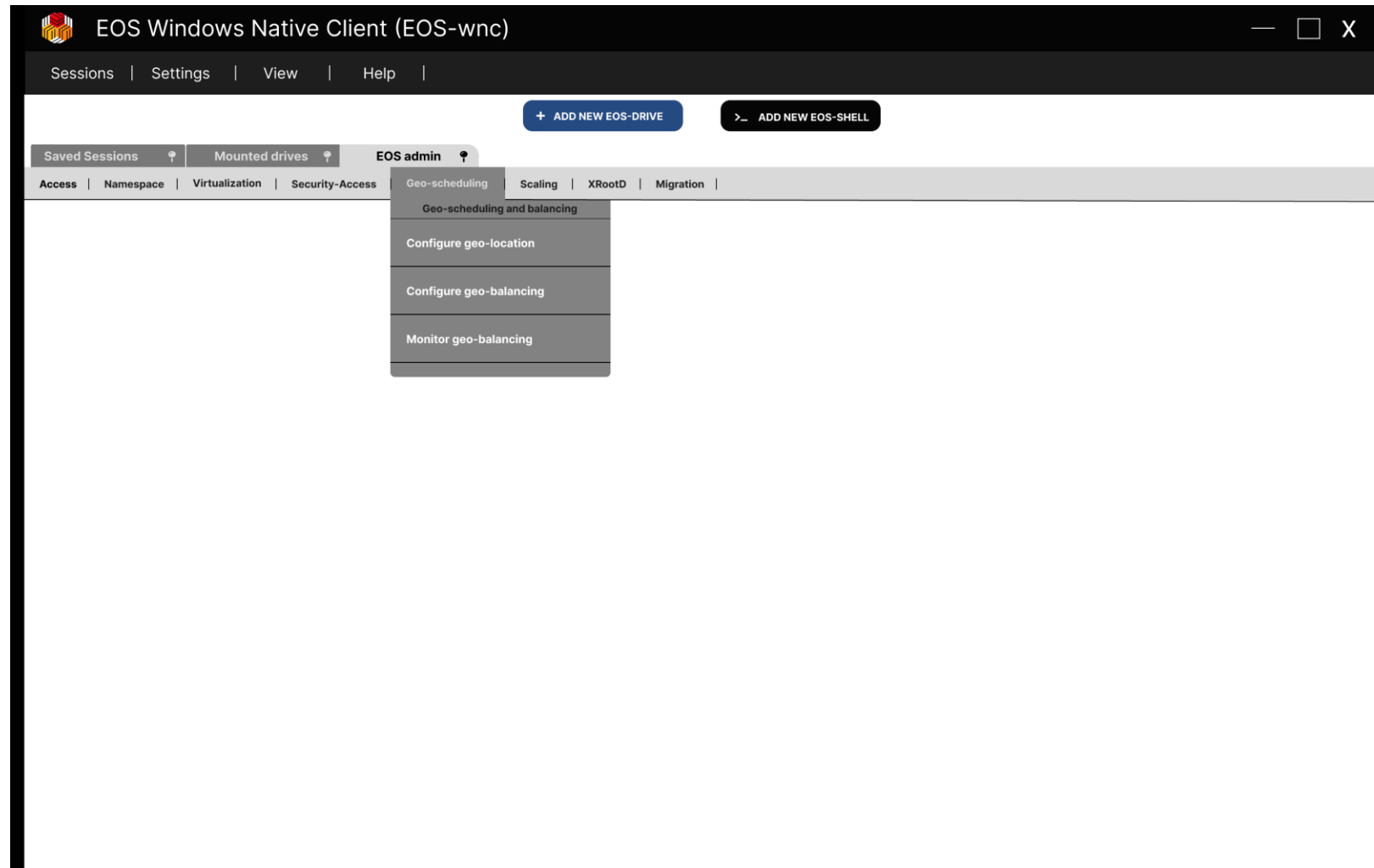
Proposed GUI for EOS administration (demo)



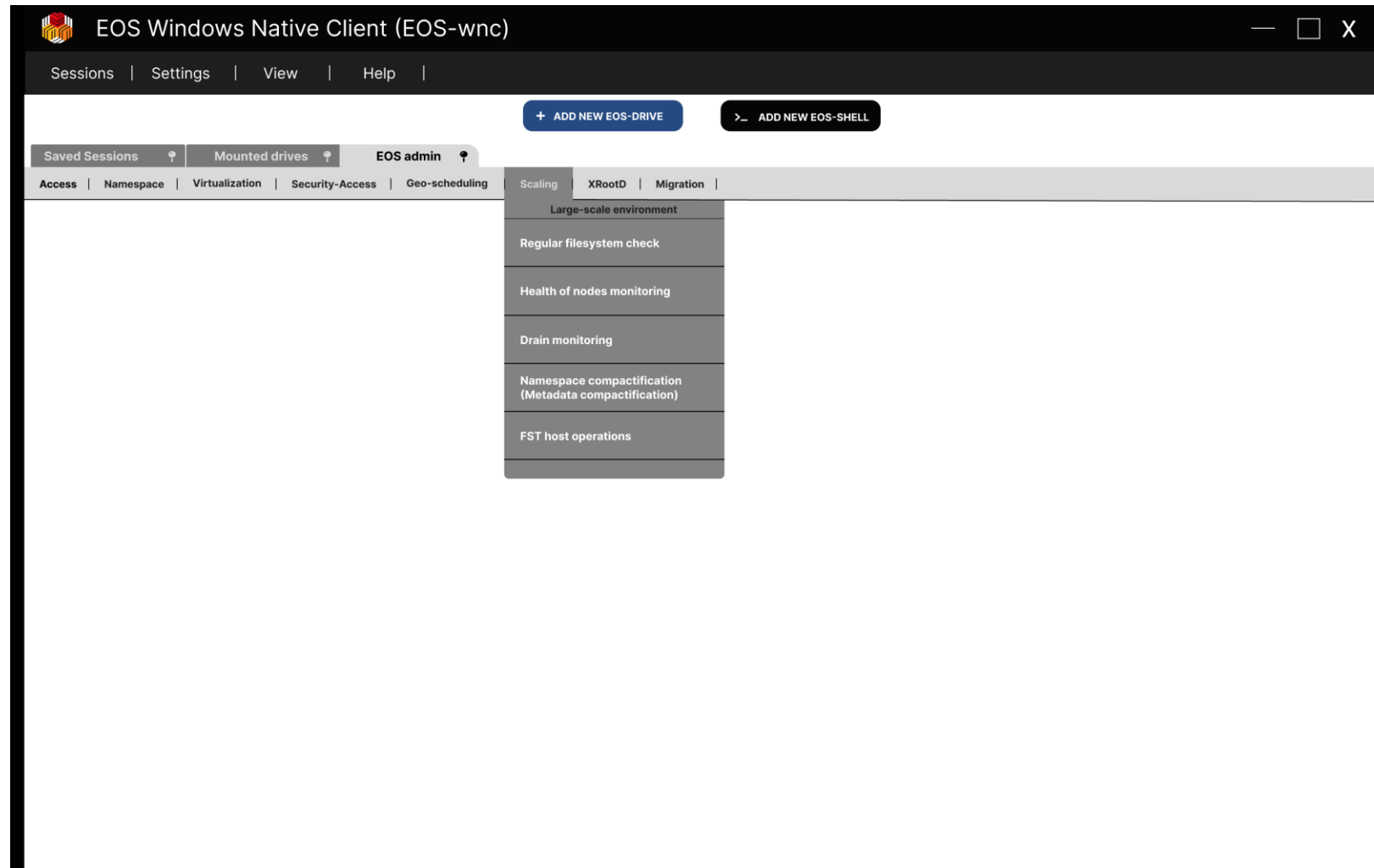
Proposed GUI for EOS administration (demo)



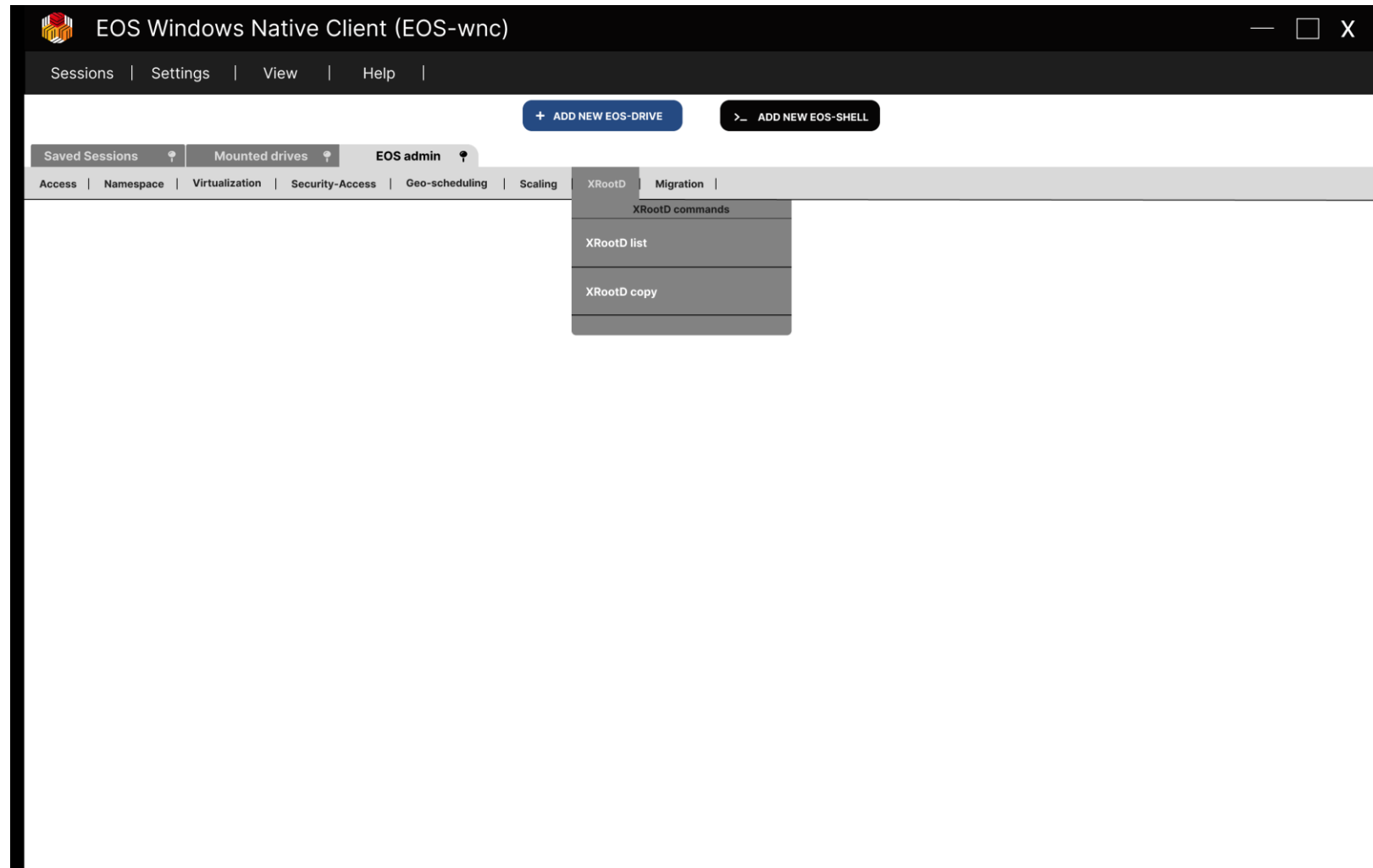
Proposed GUI for EOS administration (demo)



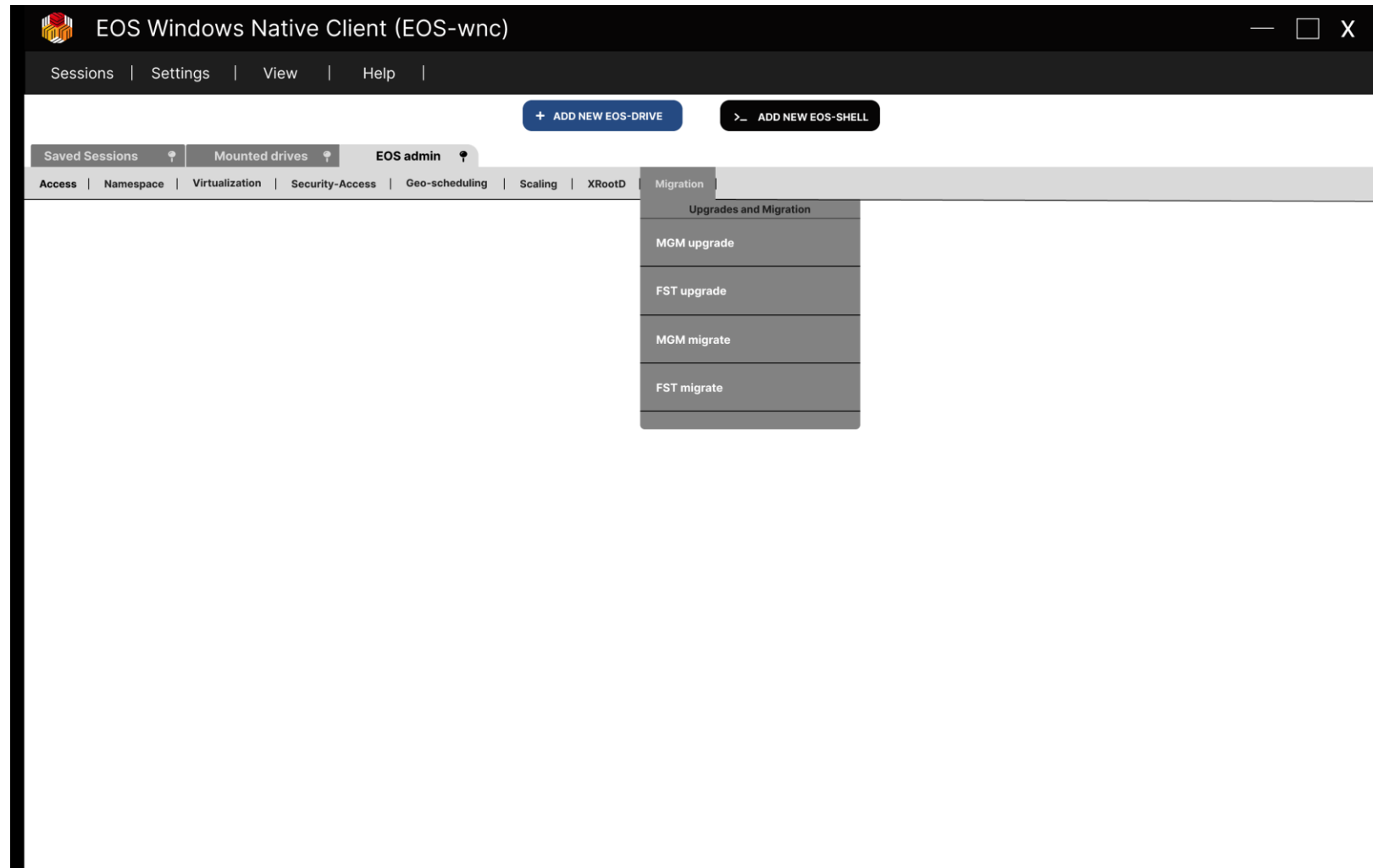
Proposed GUI for EOS administration (demo)



Proposed GUI for EOS administration (demo)



Proposed GUI for EOS administration (demo)



Possible implementations of EOS GUI

GUI application

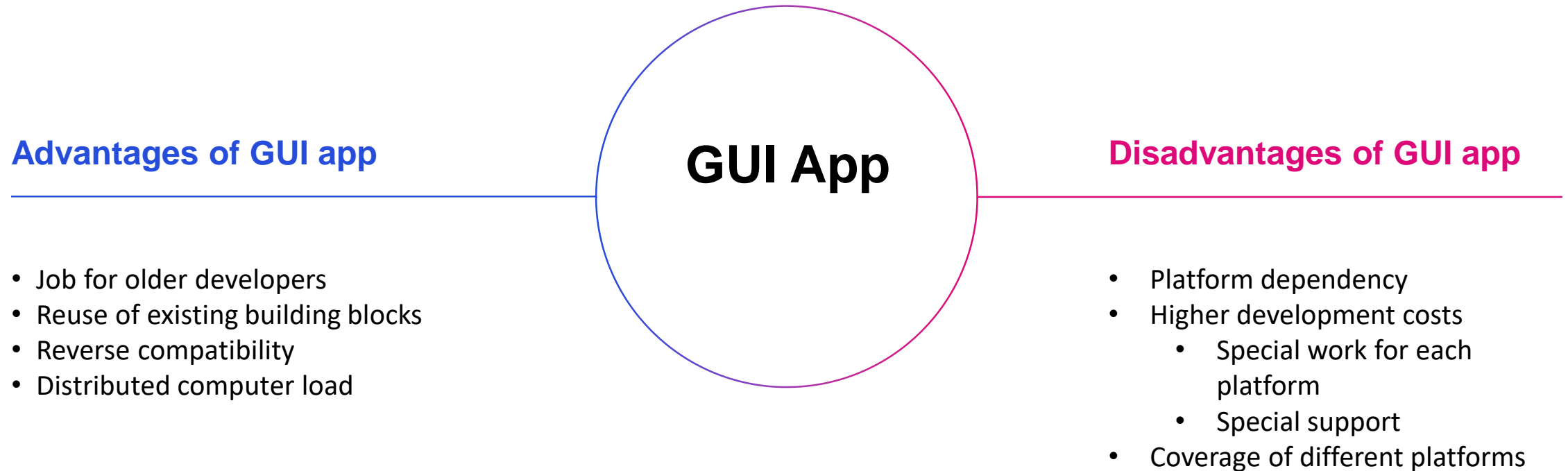
- Application software
- Notebook interface
- Virtual reality
- Application running on client host: Qt, iOS SDK, .Net

Web application

- Rich web application: Java applet, JavaFX, JavaScript, TypeScript
- Progressive Web Application
- Older application: Rich Web Application

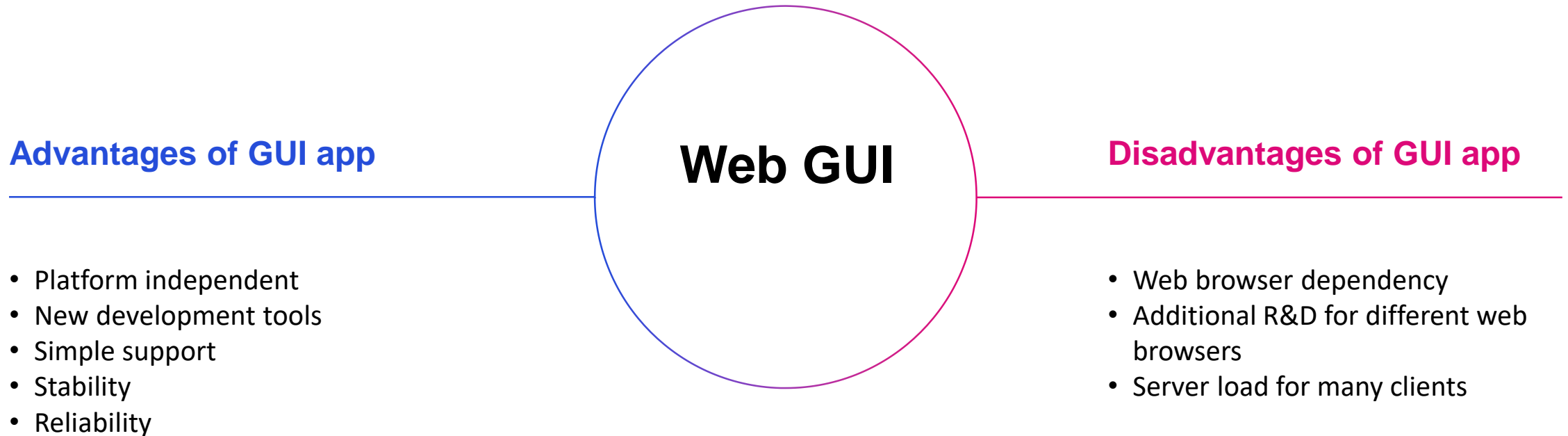
Pros and Cons of the GUI App

Overview of advantages and disadvantages of the EOS GUI implemented as an application



Pros and Cons of the Web GUI

Overview of advantages and disadvantages of the EOS GUI implemented as a web application on a server



Conclusions

- EOS GUI is not a replacement for EOS CLI
- Goals for EOS GUI
 - The main goal: popularization of EOS
 - The secondary goal: an overview of EOS features
- Proposed steps
 - Prepare the prototype of the EOS GUI
 - Development of web application

Thank you

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