

Transfert de compétences



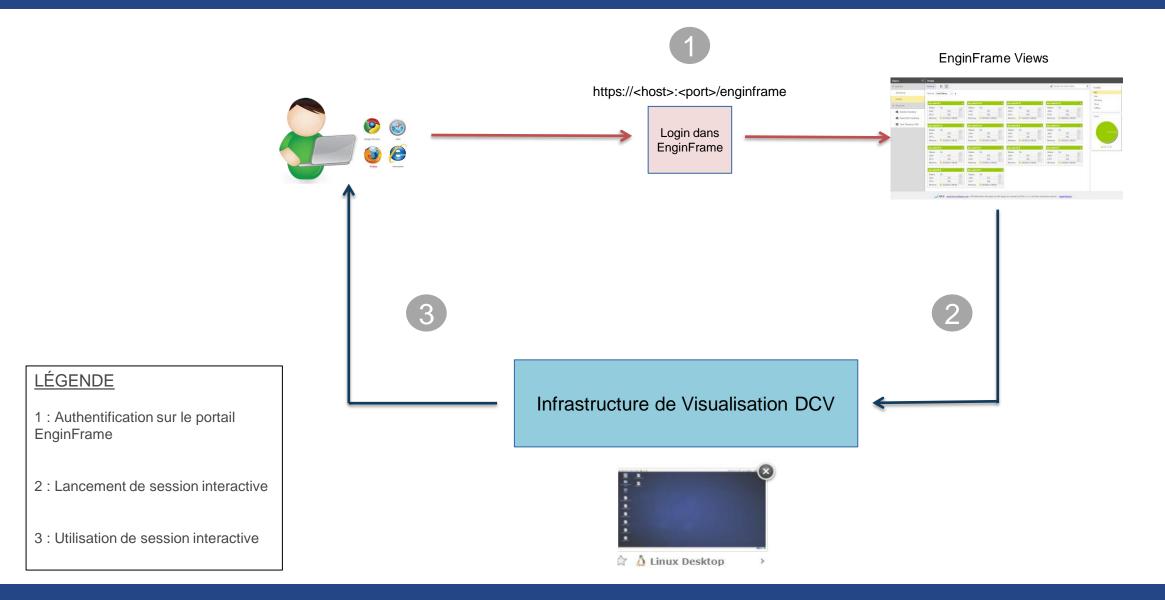
20/10/2022



Architecture

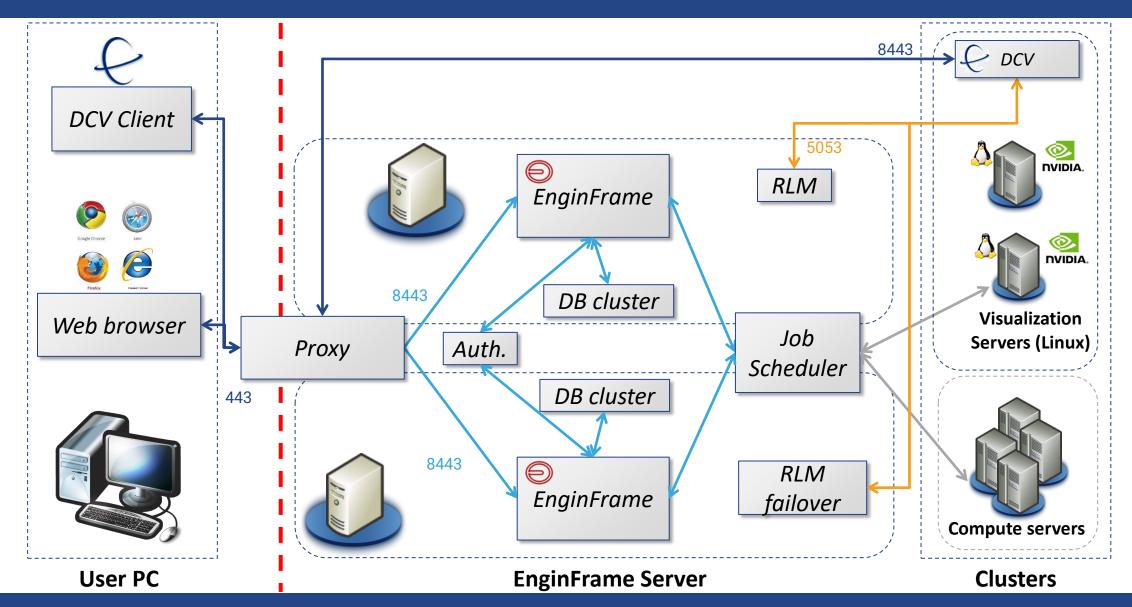


Architecture fonctionnelle standard





Architecture EnginFrame Entreprise



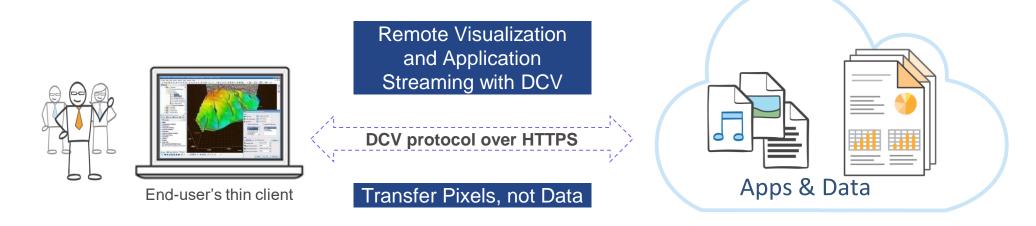


Nice DCV



NICE Desktop Cloud Visualization (DCV)





DCV (Desktop Cloud Visualization) is a streaming protocol and remote visualization solution which enables remote access of 2D/3D interactive applications over LAN/WAN networks.

Localisation du serveur de licences de DCV: RLM

RLM (RepriseLM) est le gestionnaire de licences choisi par NICE pour les licences DCV.

Déployé dans \$RLM_TOP, RLM est défini comme un service système (utilisable avec la commande SystemV "service" basée sur init.d)

\$RLM_TOP=/opt/nice/rlm

Syntaxe:

service dcv-rlm [start|stop|status|restart]



Localisation des licences perpétuelles NICE

EnginFrame Views

Le fichier de licence est placé sous le nom license.ef dans le repertoire /opt/nice/enginframe/license/

DCV

Le fichier de licence est placé sous le nom license.lic dans le repertoire /opt/nice/rlm/license/ sur le serveur de licences RLM



EnginFrame Views

UC_{IT} What is EnginFrame?

- Client a common Web Browser which connects to EF server via the Web interface, or an application connecting to EF via the WebService interface
- EnginFrame Server the process that acts as a gateway between Users service requests and the Agents service execution
 - Arbitrates access to services and visibility of outputs
 - Runs a cron-like engine (Quartz) to spawn services in batch mode
- EnginFrame Agent the process directly connected to the job scheduler or computing resources, that executes the services and returns the output to the Server

- A Web Portal
 - XHTML, REST
- A Grid Portal
 - Grids and Clusters
- A VDI Broker/Portal
 - Remote visualization with 3D OpenGL/DirectX support (NICE DCV, RGS, ...)
- A WebServices Server
 - SOAP/WSDL, Java/C# APIs, Command-line interface
- A distributed system
 - 1 or more EF Servers, 1 or more EF Agents
 - Each EF service is bound to a specific Agent
- A cron-like service execution infrastructure
 - Execute EF services periodically, unattended

Configuration d'EnginFrame: Service \$EF_TOP/bin/enginframe

EnginFrame est défini comme un service système (utilisable avec la commande SystemD systemctl ou avec la commande SystemV service basée sur init.d)

Pour les besoins du job scheduler Slurm, les repertoires de travail sessions et spoolers sont stockés dans un espace partagé dans /opt/niceshared/

Syntaxe

```
systemctl [start|stop|status|restart] enginframe
service enginframe [start|stop|status|restart [server|agent]]
```



Accès à EnginFrame Views

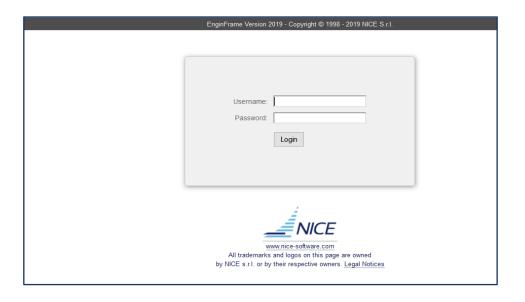
Portail utilisateur:

https://<host>:<port>/enginframe/vdi/

Portail de l'utilisateur privilégié :

https://<host>:<port>/enginframe/vdi/vdi.admin.xml

(ou en cliquant sur le lien en haut à droite « Admin's Portal »)







Portail d'Administration

Accès au monitoring du serveur EnginFrame, des licences...



UC_{IT} EF Installation Directory (\$NICE_ROOT)

```
$NICE ROOT/enginframe/ → /opt/nice/enginframe/
     2021.X-rXXX/ → binaries of the release
     bin/
      — enginframe → /etc/init.d/enginframe
     conf/
       - enginframe.conf
     current-version
     data/
     install/
     license/
     logs/
     repository/
     tmp/
```

[&]quot;spoolers" and "sessions" folders are stored on the NFS-shared filesystem

Configuration pour les sessions interactives DCV

The interactive plugin can be configured by editing

\$NICE ROOT/enginframe/conf/plugins/interactive/interactive.efconf

Defaults are in

\$EF ROOT/plugins/interactive/conf/interactive.efconf

This file contains the default parameters prefixed by

Examples:

```
INTERACTIVE_DEFAULT_OS=[linux|windows]
INTERACTIVE_DEFAULT_REMOTE=[vnc|rgs|dcv|dcv2|...]
```

Configuration du repertoire temporaire des sessions

Shared Sessions Directory

• INTERACTIVE_SHARED_ROOT=\${EF_DYNAMIC_ROOT}/sessions

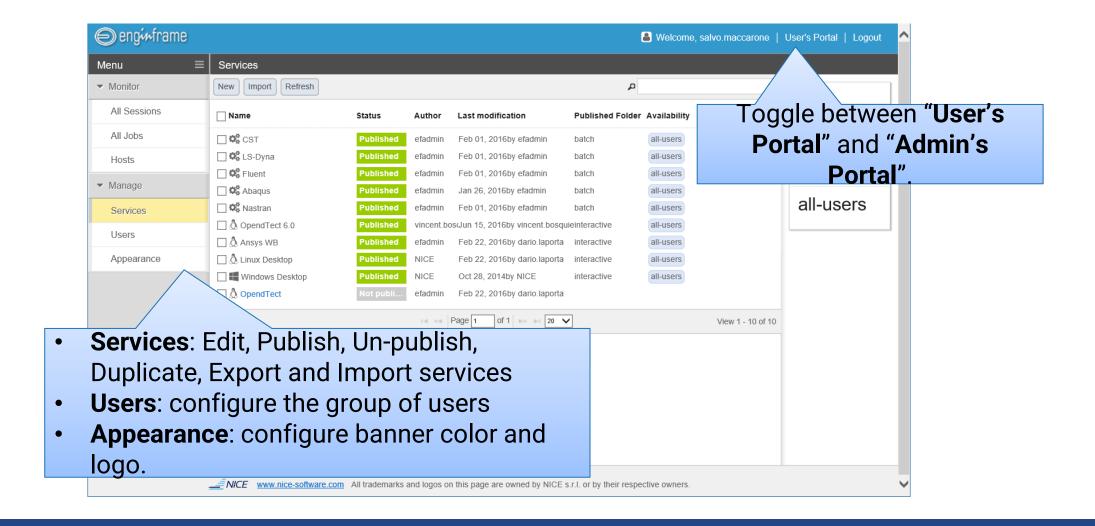
This directory is used to share data between EF and the visualization nodes.

Session files will be placed under this directory according to the following structure:

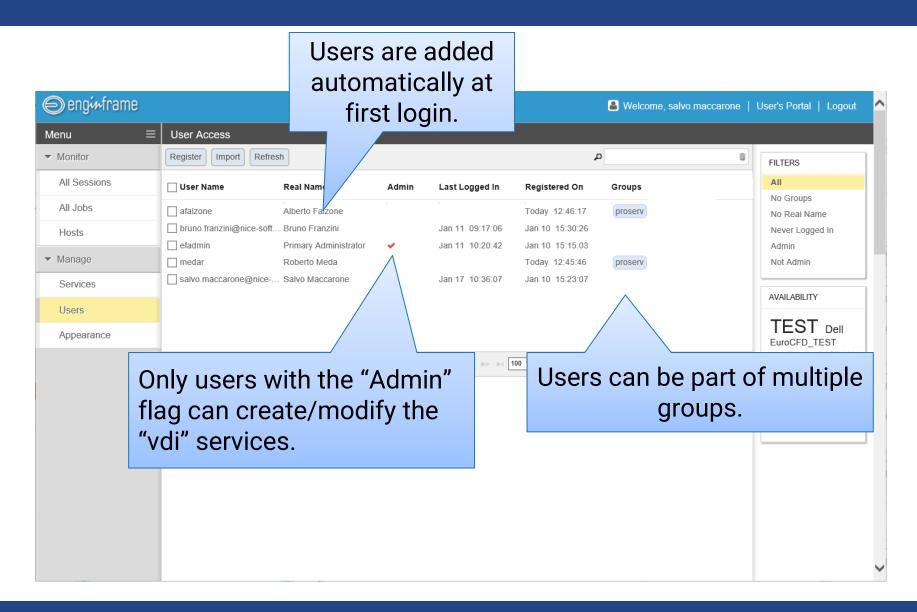
• \${INTERACTIVE_SHARED_ROOT}/\${EF_USER}/\${SESSION_ID}/



Views Admins' Portal - Services

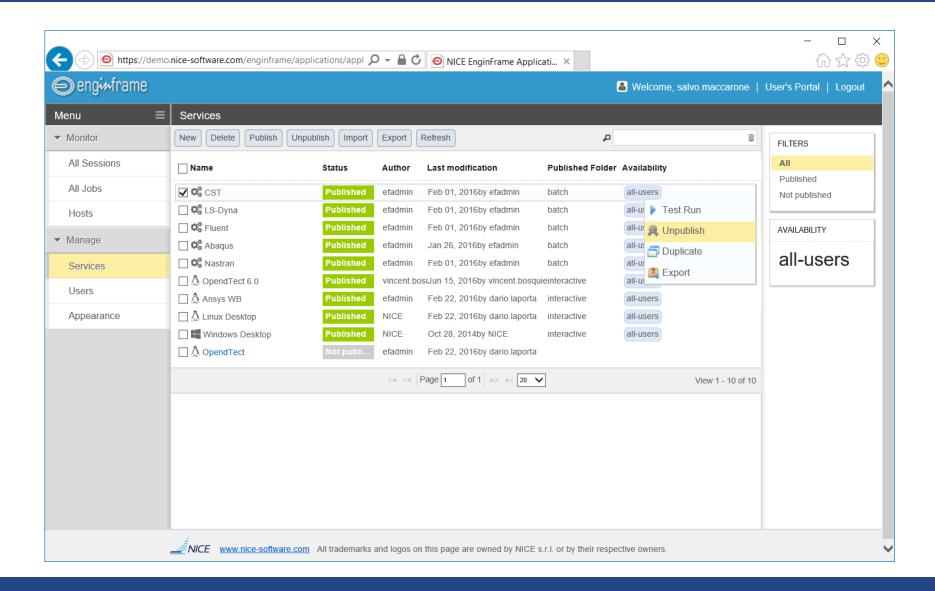


Judiews Admins' Portal – Users and Groups



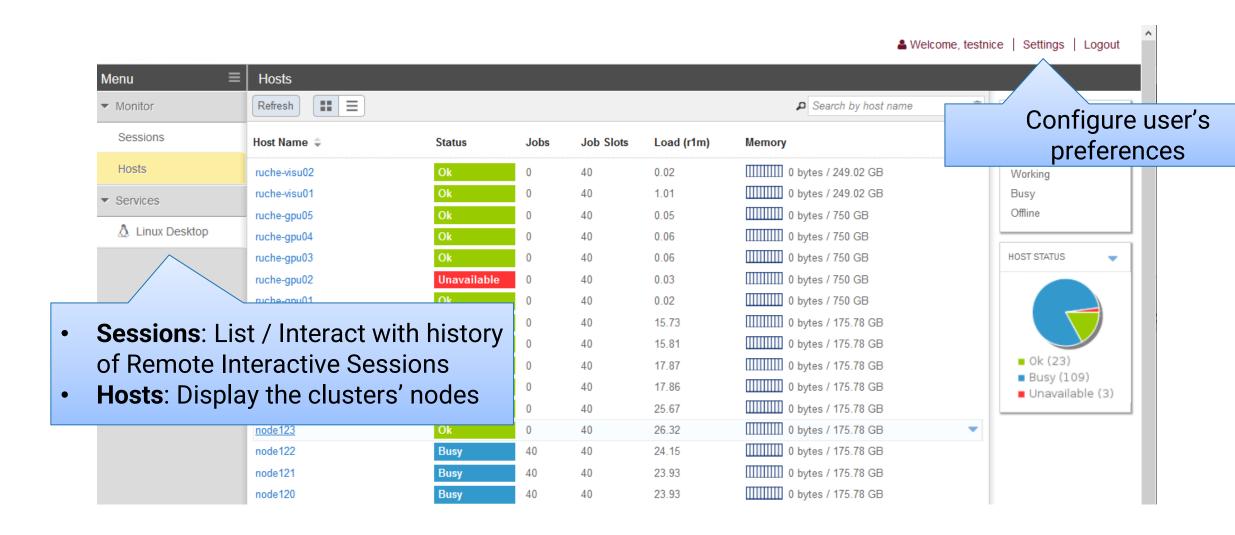


UCIT Views Admins' Portal – Service Actions



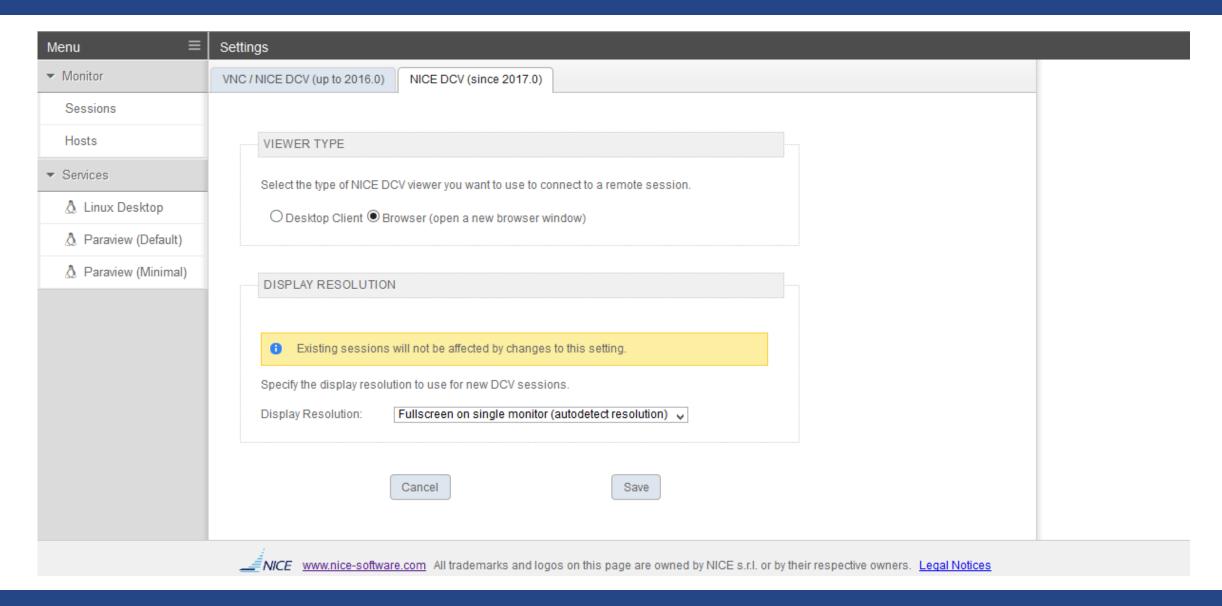


Views Users' Portal



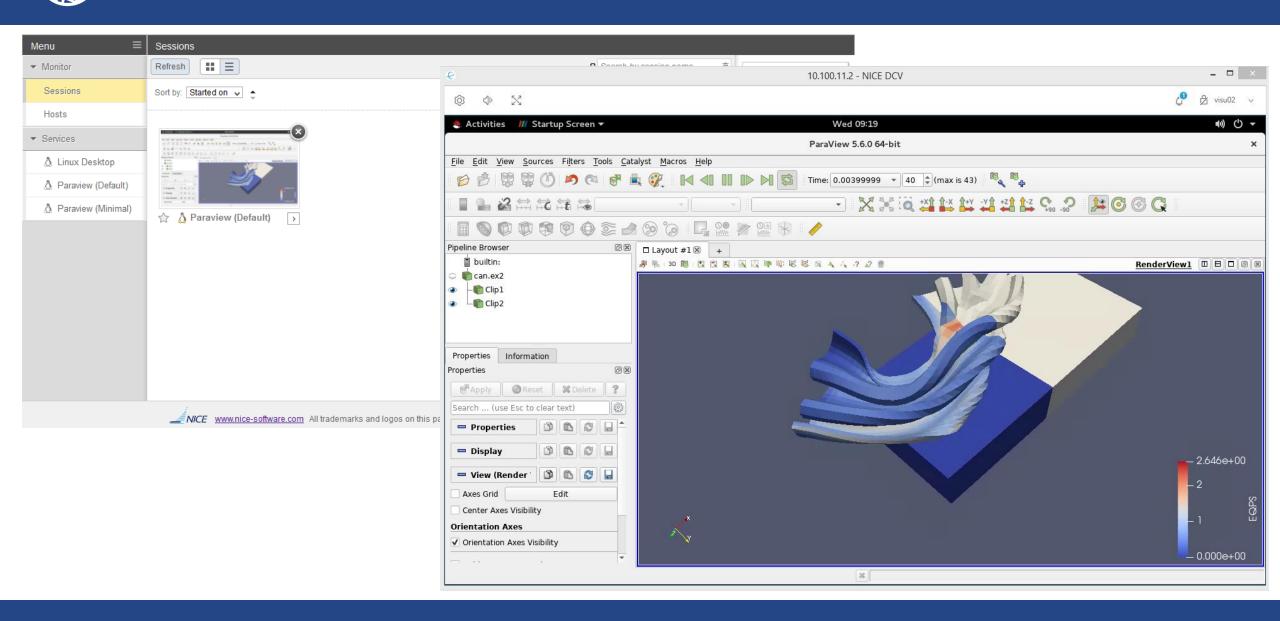


Paramètres de l'utilisateur



UCIT

UC_{IT} Connexion à une nouvelle Session Linux





Troubleshooting

Check DCV logs in /var/log/dcv on the DCV servers

• Check EnginFrame Views logs in /opt/nice/enginframe/logs







NICE Documentations

https://www.nice-software.com/download/



Merci