How can Users submit to Desktop Grids?

**FlyingGrid by XtremWeb-HEP**

- **Virtual Machines**
- **Legacy Applications**

**GBAC by SZTAKI DG**

Use cases and Applications:
- CernVM
- StratusLab

From Volunteer Computing To Volunteer Cloud

Centralized and secured Services store Applications and Data:
- Scheduler
- Repository
- etc.

Volunteer PC with VirtualBox installed

User VM

User Application

Scientist

GBAC Guest Extensions

VirtualBox

Virtual Machine

GBAC Guest Extensions

Legacy Application Inputs

Input Files

Binaries (Linux 32 bits)

Output Files

Output Files

Legacy App. Inputs

Input Files

Binaries (Linux 32 bits)

Shared Directory

Sandbox

GBAC wrapper binary

Configuration File

Virtual Appliance

Legacy Application Inputs

Input Files

Binaries (Linux 32 bits)

Output Files

Output Files

Legacy App. Inputs

Input Files

Binaries (Linux 32 bits)

3G Bridge

Volunteer PC

GBAC by SZTAKI DG

3G Bridge

Volunteer PC

GBAC by SZTAKI DG

GBAC permits Users to submit Legacy Applications to Desktop Grids powered by SZTAKI DG

GBAC permits Users to submit Virtual Machines to Desktop Grids powered by XtremWeb-HEP