



Contribution ID: 175

Type: **Demonstration**

LiveWN: Desktop Grids are as simple as using a CD

Please indicate your preferred day to give a demo.

Thursday or Friday.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

“The usage of EDGeS services for EGEE users” track will host a session were LiveWN will be included.

Special requirements other than the set up mentioned in the CfA text.

a network connection with the form of UTP (standard copper cable) and a small 12-port switch would be greatly appreciated, since some laptops' WiFi support doesn't cooperate well with Scientific Linux.

Abstract

LiveWN was initially prototyped in year 2006 as a bootable CD with Scientific Linux, supporting diskless, easy-to-deploy grid Worker Nodes, requiring virtually zero administration upon deployment. Recent evolutions during year 2009 brought even more results:

- * scalability and reliability tests over WAN deployment scenarios,
- * integration with Shibboleth (ShibGrid) and,
- * design prototype for a deployment on an infrastructure with a potential of 60000+ nodes.

LiveWN mixes key technologies including LiveCD (a self-booting Linux CD), gLite (the grid middleware stack), OpenVPN (virtual private network) and OpenAFS (open distributed filesystem). It includes a full desktop environment and some extra scientific software, including a set of tools in relation to the high energy physics project ATLAS, Wine, PovRay and other. LiveWN implements also a convenient UI (User Interface) from which all grid resources are available (EGEE and LCG VOs, combined with all Desktop Grid resources)

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