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## MetaCentrum, the Czech virtualized NGI

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

MetaCentrum, Czech NGI

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

None

### Abstract

MetaCentrum, the Czech NGI, started to virtualize the infrastructure already several years ago. Virtual clusters were introduced as a new service, providing an illusion of totally dedicated clusters under complete user control running on a shared infrastructure, including administrator access. Virtual machines and clusters are handled in a way similar to ordinary computation jobs, planned for batch or interactive processing. We developed an extension to job scheduler PBSPro and new management tools to smoothly integrate virtual cluster service into NGI environment. Networking is also a vital part of the service, where Czech NREN CESNET2 technology allows managing virtual cluster network without perceivable overhead. Virtual network becomes a new resource, that can be attached to user's home network. Benefits of this fully integrated virtualized infrastructure will be demonstrated through series of usecases.

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