

Cloud Panel

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What Brought me to Clouds?

- 1999-2001 – PUNCH at Purdue (J. Fortes)
 - Web portal for running tools (nanoHub predecessor)
 - Many tools of many types; dependences; isolation
 - Virtualization – key abstraction
- 2002-2005 – In-Vigo at U. Florida
 - PUNCH-inspired system built atop virtualization
 - System built atop VMware, NFS virtual file system
- 2006-present
 - Virtual networks
 - Software-defined networks (SDN)
 - IP-over-P2P (IPOP) overlay; distributed virtual machine clusters, Grid Appliance and Archer

What keeps me close to clouds?

- IPOP virtual network and applications in collaboration with other systems
 - ConPaaS at VU – virtual clusters for PaaS
 - FutureGrid – appliances, education
- SocialVPN
 - A cloud of your friends – “social-area network”
 - End-to-end IP, communication privacy
 - Emerging P2P social applications
 - Expose familiar TCP/IP; avoid centralization when desired
 - Mobile devices in social clouds
 - Offloading, communication to trusted resources
 - Challenges of overlays on resource-constrained devices

Links

- IPOP: www.ipop-project.org
- ConPaaS: www.conpaas.eu
- Grid Appliance: www.grid-appliance.org
- FutureGrid: www.futuregrid.org
- SocialVPN: www.socialvpn.org

Collaborators and sponsors

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