Cloud based IT Infra with Central Identity {Project reboot}

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- Objective
- 2 Present System
- Architecture
- Proposed System
- 6 Advantages
- 6 Implementation...
- New Lab Proposal
- Requirements
- Questions

Objective

To construct new Cloud based IT Infra with Central Identity.

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Present System

- Failed to maintain large user load web services like ONB, Exam servers, etc.
- No proper Web Application Security & Standards.
- No Central Identity, Storage & High capacity hardware resource pool.
- Inadequate resource requirements for Research.
- Dedicated computer course labs like Matlab, VLSI, etc.

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Architecture

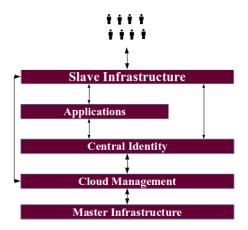


Fig 1. Archtitecture

Architecture Continued...

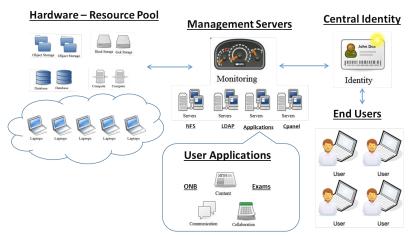


Fig 2. Archtitecture in detail

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Proposed System

- Cloud based hardware resources clustering.
- Central Identity for all users to access Network based
 Applications by providing well structured & documented API.
- Dynamic user roles in Central Identity for extended application support.
- New CPanel for Network Administration.
 - Providing different user modes in OS, controlled remotely from CPanel.
 - Providing Virtual Labs (machines) with desired resource capabilities.
 - Providing a right to verify and approve user application requests.

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Advantages

- Well structured & controllable Network Administration
- Efficient hardware utilization
- No registration for new Network based applications through Central Identity API
- Provding Virtual Machines with high hardware configuration for Researchers & Developers

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How to Implement

- Why can't we have one Dedicated Lab Environment?
- Not only for this project but also to do this kind of projects.

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New Lab Proposal

- Network and Computational Lab
 - New encouragement to people who are intrested in this area
 - People will get hands on experience in networking
 - Initiation for Computational Work

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Technical Requirements

- One Lab Envinroment
- At Least 10 Computers
- Internet facility
 - Uninterrupted
 - No proxy
 - Unlimited Data
- 24 x 7 Lab availability

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Questions?

Questions and Suggestions?

Finally ...

Thank you All .. :)