

# Cloud based IT Infra with Central Identity

## {Project reboot}

Team r3b00+

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# Outline

- 1 Objective
- 2 Present System
- 3 Architecture
- 4 Proposed System
- 5 Advantages
- 6 Implementation...
- 7 New Lab Proposal
- 8 Requirements
- 9 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

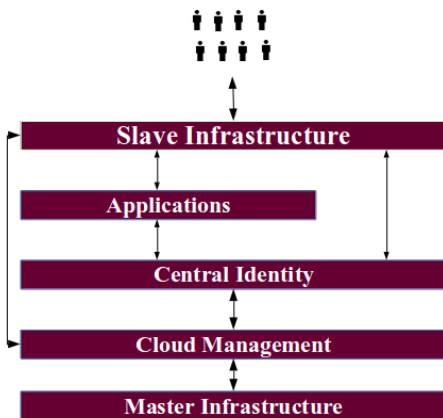


Fig 1. Archtitecture

# Architecture Continued...

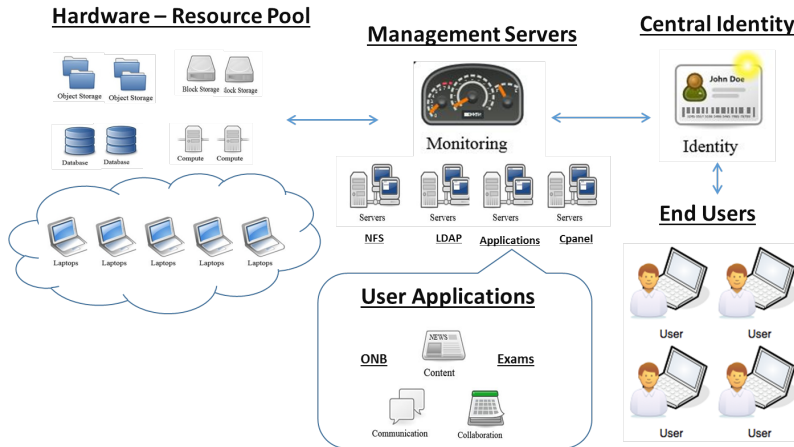


Fig 2. Architecture in detail



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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 Administraion
- 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



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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 .. :)