# Cloud based IT Infra with Central Identity
{Project reboot}

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# Outline

## Objective

To construct new Cloud based IT Infra with Central Identity.

# Outline

## 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.
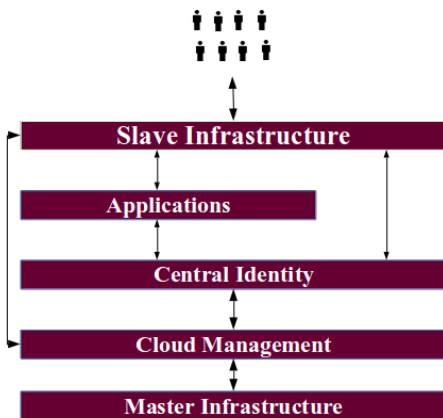
# Outline

## Architecture



Fig 1. Archtitecture

## Architecture Continued...
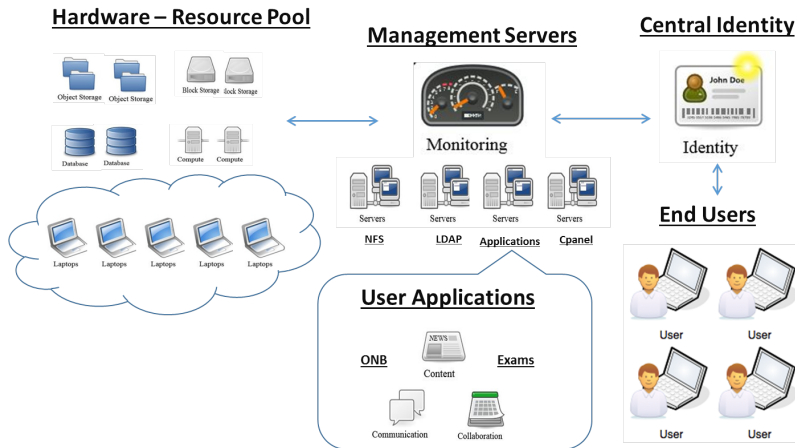


Fig 2. Archtitecture in detail

# Outline

1. Objective

2. Present System

3. Architecture

4. Proposed System

5. Advantages

6. Implementation...

7. New Lab Proposal

8. Requirements

9. Questions?

## Proposed System

- Cloud based hardware resources clustering.
- Central Identity for all users to access Network based Applicaitons 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.

# Outline

## 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

# Outline

## 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.

# Outline

## 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

# Outline

## Technical Requirements

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

# Outline

## Questions?

Questions and Suggestions?

# Finally ..

Thank you All .. :)