NCEdCloud IAM

Overview Presentation

Key Terms

NCEdCloud is the initiative responsible for providing services that include Identity & Access Management and Data Management

IAM-MS was the term for describing the service providing Identity & Access Management which is now called **NCEdCloud IAM**

Goals

Provide LEA faculty, students, parents and guests with a single login to all NCDPI sponsored systems as well other cloud systems that are utilized by numerous LEA's.

Provide self service capabilities to all end users and delegation capabilities to all LEA administrators.

Key Organizations

NCDPI - NCEdCloud Sponsor

Friday Institute - NCEdCloud Program Manager

MCNC - NCEdCloud Service Manager

Identity Automation - NCEdCloud IAM Service Manager and Provider

Core Team

Samuel "Sammie" Carter
Friday Institute
NCEdCloud Service Manager

Steve Hatch
Identity Automation
NCEdCloud IAM Service Manager

Steve Thorpe
MCNC
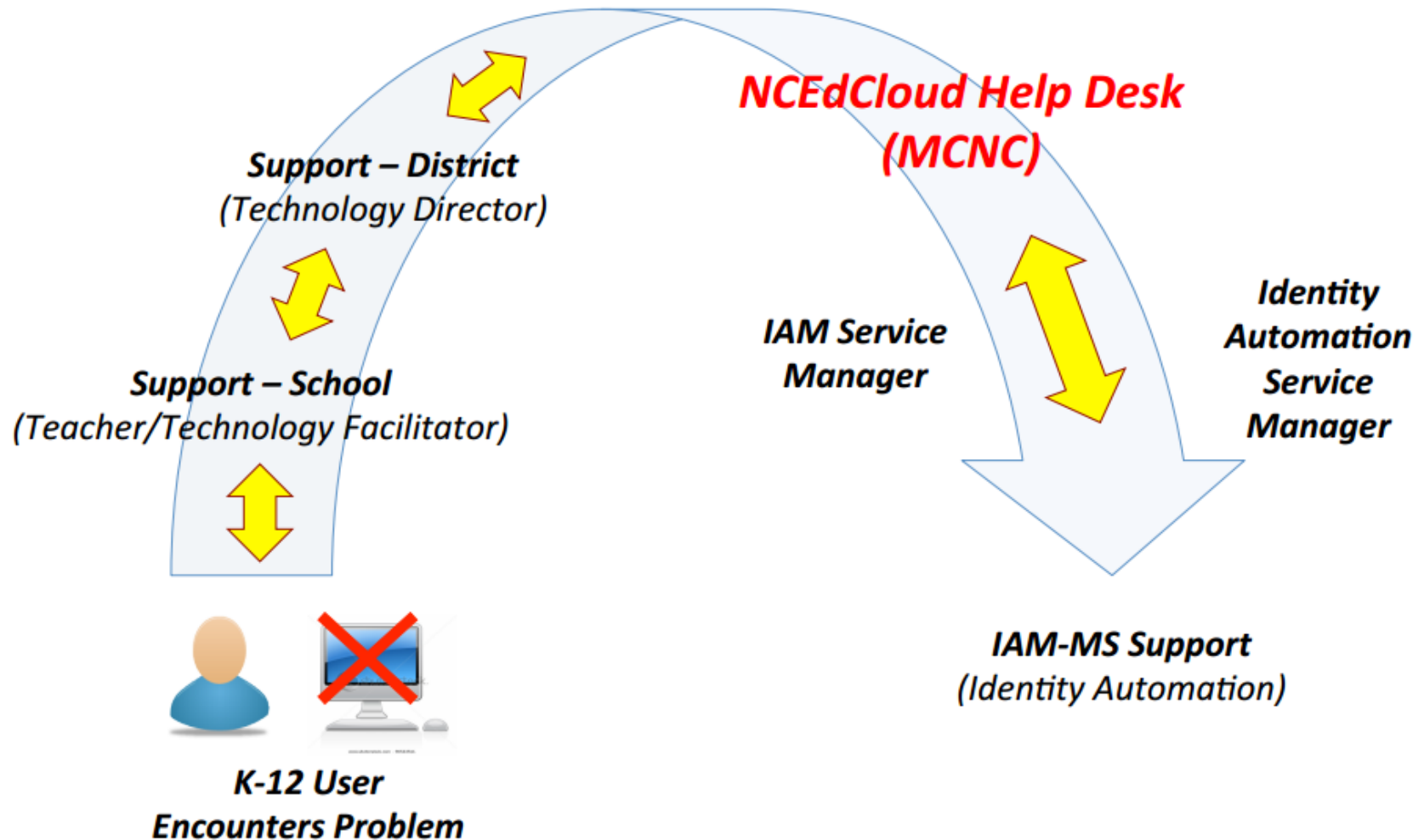*NCEdCloud IAM Systems Analyst*

Troy Moreland
Identity Automation
NCEdCloud IAM Service Architect

Mark Scheible
MCNC
NCEdCloud IAM Systems Analyst

Support Model

NCEdCloud Help Desk (MCNC)

Support – District
(Technology Director)

Support – School
(Teacher/Technology Facilitator)

IAM Service Manager

Identity Automation Service Manager

IAM-MS Support
(Identity Automation)

K-12 User Encounters Problem

User Statistics

Initial Scope:

Faculty: ~250K

Students: ~1.5M

Future Scope:

Guardians: ~3M

Guests: *Unknown*

NCEdCloud IAM

The NCEdCloud IAM infrastructure will be hosted in Amazon's AWS environment. This service provides unlimited scaling as well as a world class high availability platform.

NCEdCloud IAM

Infrastructure, systems, services and resources responsible for providing the IAM-MS.

Services Provided:

- My NCEdCloud
- NCEdCloud SAML IdP
- NCEdCloud Sync

NCEdCloud IAM

My NCEdCloud

(http://my.ncedcloud.org)

The interface for end users and administrators that will provide self service and delegated administration capabilities.

This service runs on Identity Automation's Access Request Management System (ARMS) product.

NCEdCloud IAM

NCEdCloud SAML IdP

The service that will provide sign-on capabilities to cloud systems that support the SAML protocol and implementation.

This service runs on Identity Automation's Federated Identity Management System (FIMS) product.

NCEdCloud IAM

NCEdCloud Sync

The service responsible for managing the lifecycle of account management across all systems. (e.g. create, update, delete accounts)

This service runs on Identity Automation's Data Synchronization System (DSS) product.

NCEdCloud IAM

NCEdCloud Username

The login for the NCEdCloud is referred to as the NCEdCloud Username. Based on numerous constraints, an NCEdCloud Username will be a randomly generated value with 4 alpha characters followed by 4 digits.

e.g. fqbr4159

NCEdCloud IAM

Core Systems

Core systems of NCEdCloud IAM:
- Person Registry
- Central Directory

NCEdCloud IAM

Person Registry

The Person Registry is a component of the core infrastructure that provides an identity data warehouse for NCEdCloud IAM. This registry is responsible for matching, merging and cleansing of data as it comes from the source.

NCEdCloud IAM

Central Directory

The Central Directory is a component of the core infrastructure that provides a directory service for NCEdCloud IAM. The Central Directory is the authoritative source for the NCEdCloud Username and password. It is also the source of all target system integration whether by SAML, LDAP or direct provisioning.

NCEdCloud IAM

Target System Integration

Integration with target systems comes in three flavors:

- SAML
- Synchronization
- LDAP

The capabilities of the target system dictates the type of integration used.

NCEdCloud IAM

Target Systems

By March 2014:

- Google Apps for Education
- Central Directory Local Replica
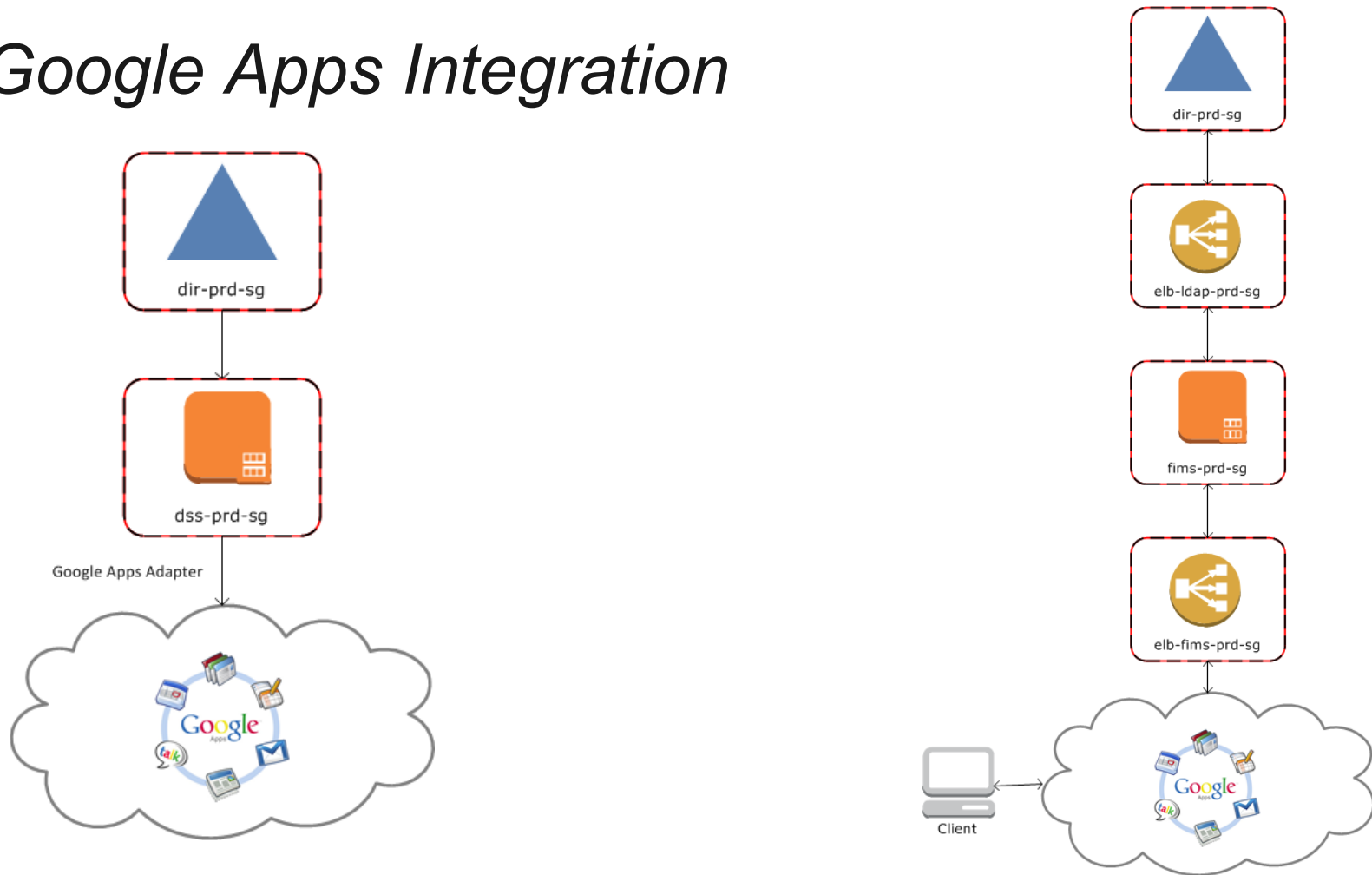- Zscaler
- Follet Destiny
- Discovery Education

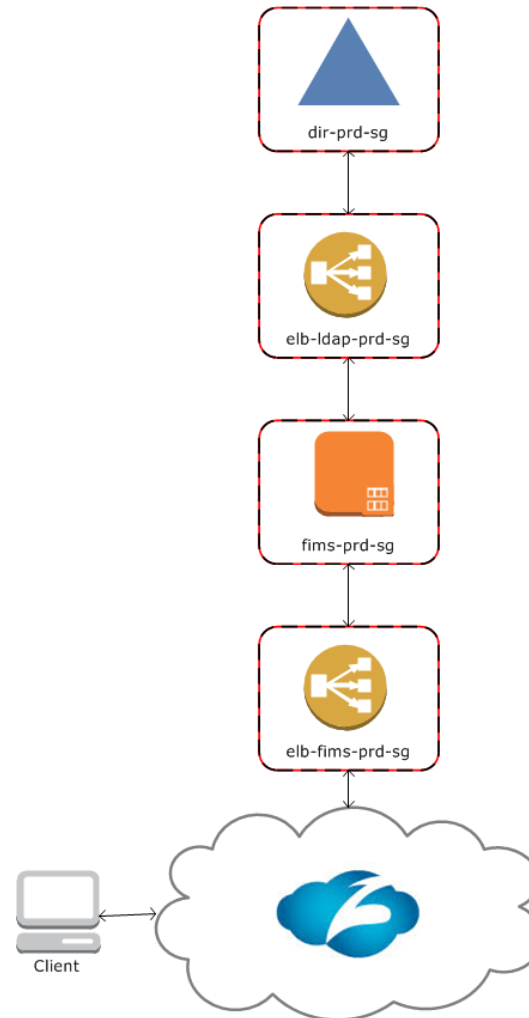# NCEdCloud IAM

Central Directory Local Replica
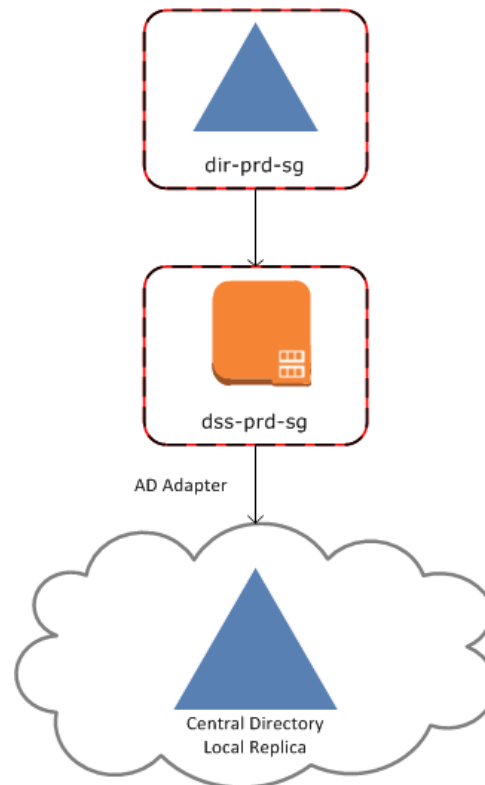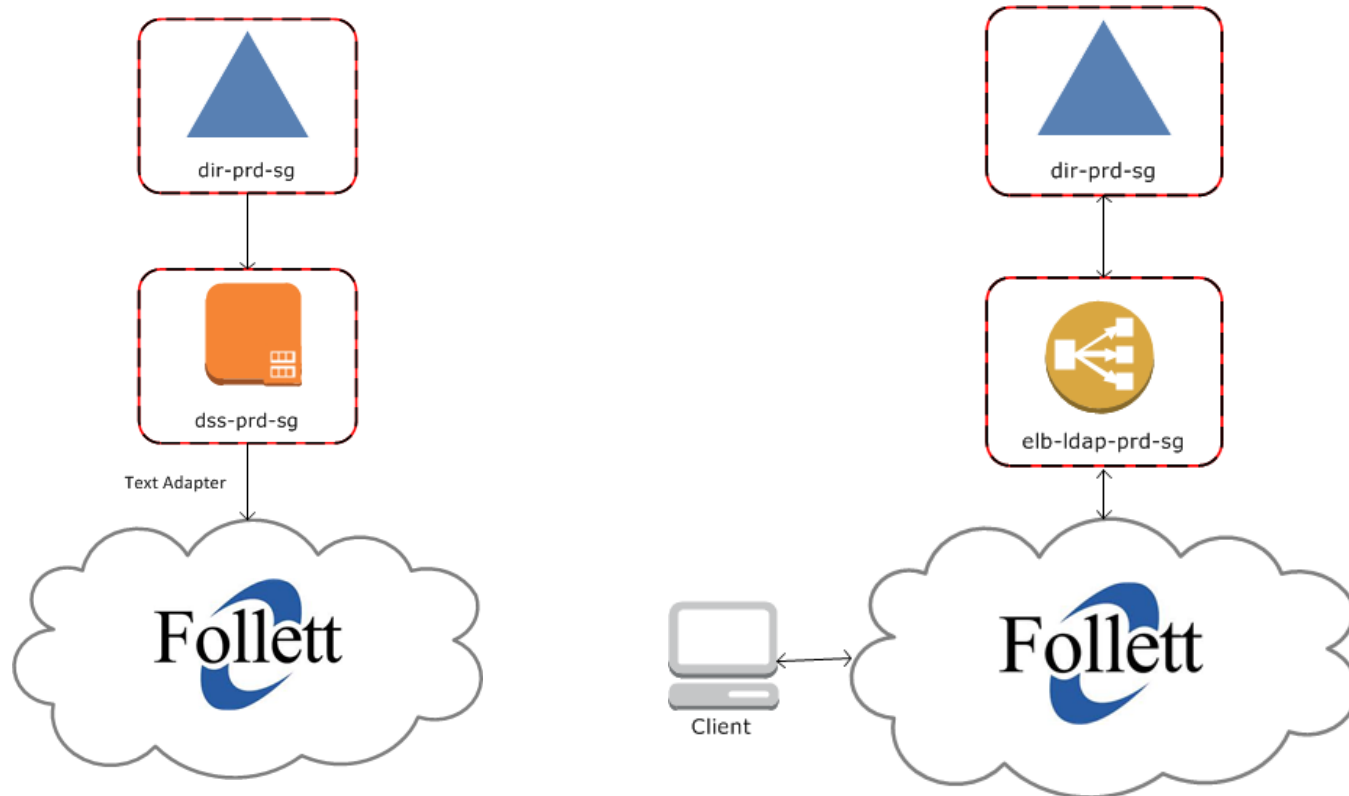
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Google Apps Integration

NCEdCloud IAM

Zscaler Integration

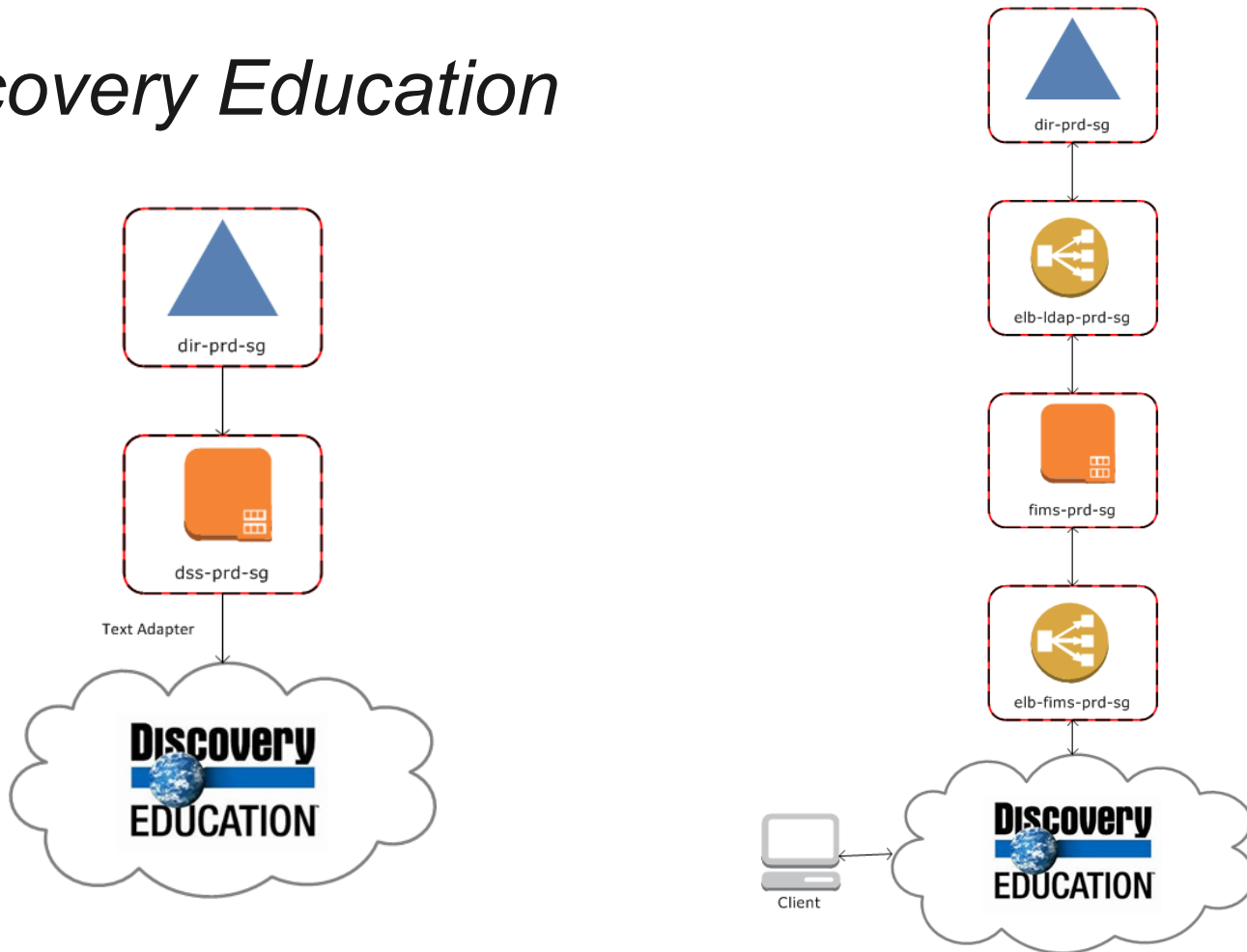# NCEdCloud IAM

Follet Destiny Integration

NCEdCloud IAM

Discovery Education

NCEdCloud IAM

NCEdCloud IAM Support Portal

(http://support-iam.ncedcloud.org)

The interface for administrators that will provide service catalog requests for exception handling.