

NCEdCloud IAM Service Update

North Carolina CJIN Board

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NCEdCloud IAM Service Update

General Summary

- **Competitively RFP bid** awarded to Identity Automation in April 2013 to provide a **statewide identity and access management cloud service** that provides every K-12 student, employee, and parent in NC a single account to access all educational learning resources.
- The IAM Service was one project in the NCEdCloud Program started in 2010
 - US ARRA > US DOE RttT > NC Governor's Office > NCDPI > NCEdCloud @ NCSU/Friday Institute

General Update

- **Quick Stats**

- ~2.5 million total accounts (with ~2.3 million active users)
- Average daily logins: ~500,000
- Total number of application integrations: ~3,000
- Over 300 individual LEAs part of service across State

- **Major updates/trends**

- Integrating more target applications (10 / contract year)
- More local implementations and outside interest
- Support organization transitioned from MCNC to NCDPI
- Continuous refinement across entire service



General Update

- **Moving Forward (NEW Contract Year 4-5)**
 - Continued Operations, Support, and Maintenance
 - Guardian Accounts
 - Continued Target Applications integration/refinement
 - Shifting from coarse to more granular controls
 - More multi-valued attributes support
 - Different authentication options/methods used
 - External data processing refinement
 - **Cost is ~\$.80/student/year**

NCEdCloud IAM Service Background

What is the NCEdCloud IAM Service?

A **statewide** identity and access management cloud **service** that provides every K-12 student, employee, and parent in NC a **single account** to access all educational learning resources. In addition, it provides **self-service** capabilities to all end users and **delegation capabilities** to all LEA and Charter School administrators.



General Timeline

- 2010: The IAM Service was one project in the NCEdCloud Program started in 2010
 - US ARRA > US DOE RttT > NC Governor's Office > NCDPI > NCEdCloud @ NCSU/Friday Institute
- 2010-2012: IAM Research and Planning
 - Statewide interviews with all LEAs (9 months)
 - Engaged with 40+ vendors
 - Created IAM User Group
- 2012-2013: RFP Procurement (13 months)
 - April 1, 2013: Competitive RFP bid was awarded to Identity Automation

Year 1 - Build and Deploy

- Contract Year 1 (April 1, 2013 - April 1, 2014)
 - 5 Phases - Assessment, Design, Build, Test, Deploy (pilots)
 - IAM Service went into production on January 1, 2014
- 5 Target Applications
 - Google Apps for Education
 - MCNC Zscaler Web Security
 - CDLR (Central Directory Local Replica)
 - Follett Destiny
 - Discovery Education

Year 2 - Operations and Support

- Contract Year 2 (April 1, 2014 - April 1, 2015)
 - Continued Year 1 application integrations, support, and maintenance
- Home Base Applications
 - Home Base - Pearson OpenClass
 - Home Base - PowerSchool (NC SIS)
 - Home Base - Pearson SchoolNet
 - Home Base - TNL (NCEES)
 - Home Base - NC Learning Object Repository
 - Home Base - Instructure Canvas

Year 3 - Operations and Support

- Contract Year 3 (April 1, 2015 - September 30, 2016)
 - Continued Year 1 application integrations, support, and maintenance
 - Continued Year 2 application integrations, support, and maintenance
- 10 New Target Applications
 - BloomBoard
 - PCG Student Survey
 - Many others...

Year 4/5 - Operations and Support (NEW)

- Contract Year 4/5 (October 1, 2016 - September 30, 2018)
 - Continued Year 1 application integrations, support, and maintenance
 - Continued Year 2 application integrations, support, and maintenance
 - Continued Year 3 application integrations, support, and maintenance
- 10 New Target Applications
 - TBD
- Guardian Accounts

NCEdCloud IAM Service

Brief Technical Overview

Applications

Profiles

Files

Workflow






























My Applications



Filter Results...



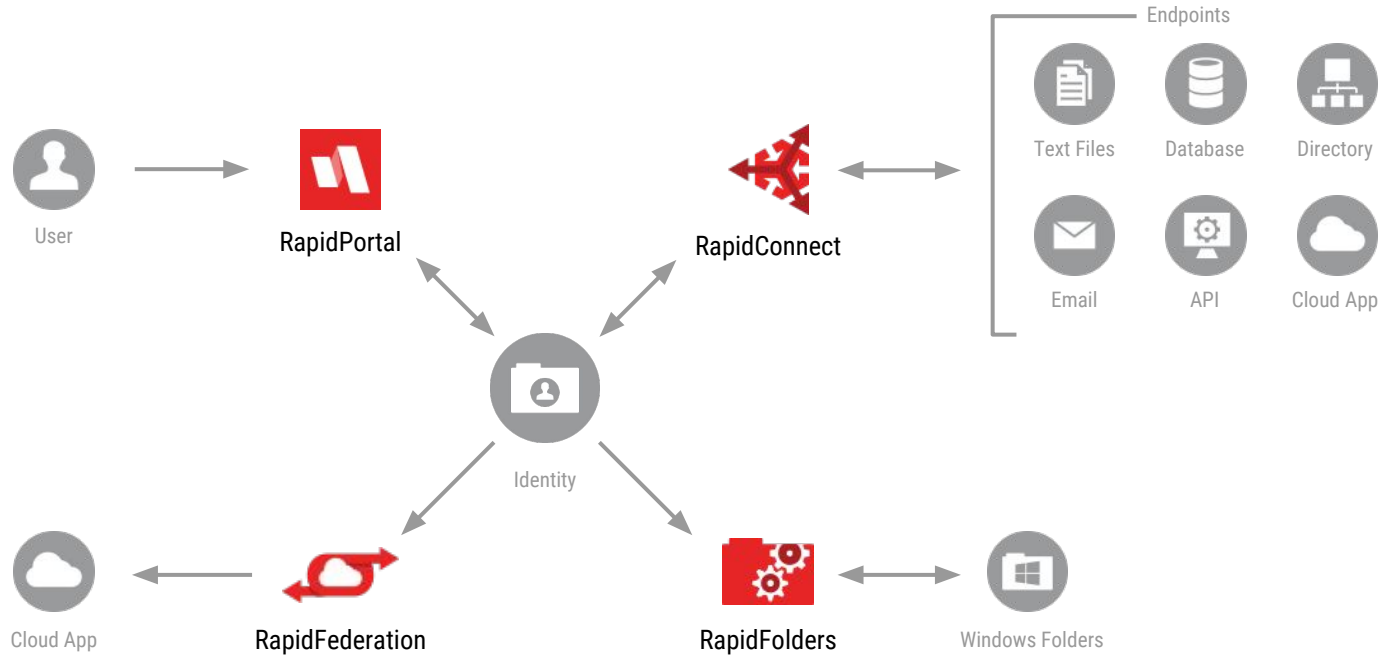
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 BloomBoard ⓘ	 Collaboration To... ⓘ	 Discovery Educa... ⓘ	 Edmodo ⓘ	 Emergency Mes... ⓘ	 HMH ⓘ	 Follett Library ⓘ	 Google Books ⓘ
 Google Calendar ⓘ	 Google Chat ⓘ	 Google Docume... ⓘ	 Google Drive ⓘ	 Google Earth ⓘ	 Google Mail ⓘ	 Google Maps ⓘ	 Google Sheets ⓘ
 Google Translate ⓘ	 History Textbook ⓘ	 Music Education ⓘ	 My School Bus ⓘ	 My School News ⓘ	 Research Tools ⓘ	 Safe Internet To... ⓘ	 School Directory ⓘ
 Science Textbook ⓘ	 Streaming Music ⓘ	 Student Task List ⓘ	 Student Teams ⓘ	 YouTube ⓘ			

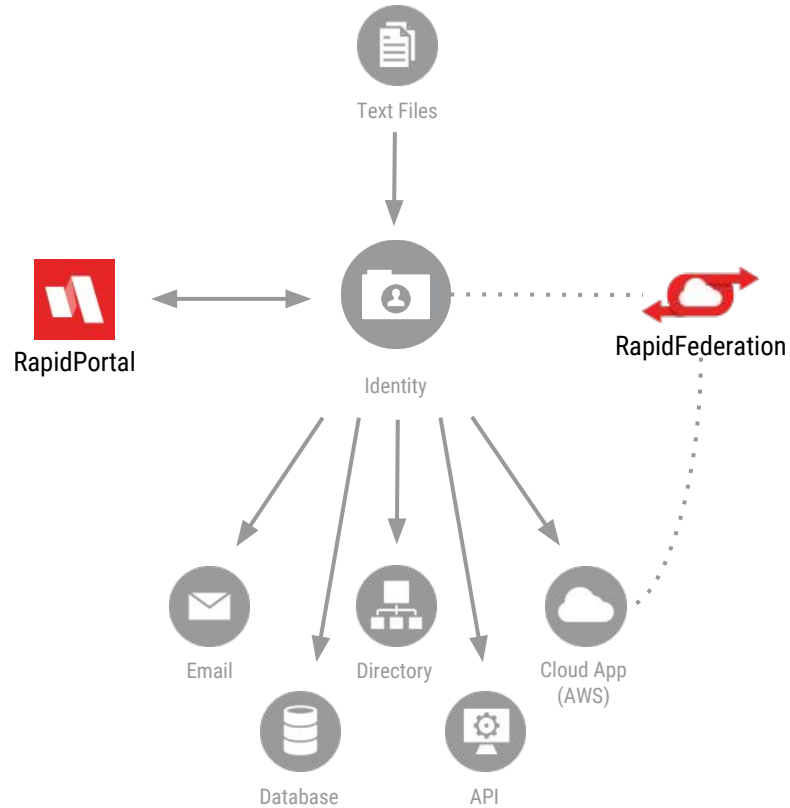


Application Information

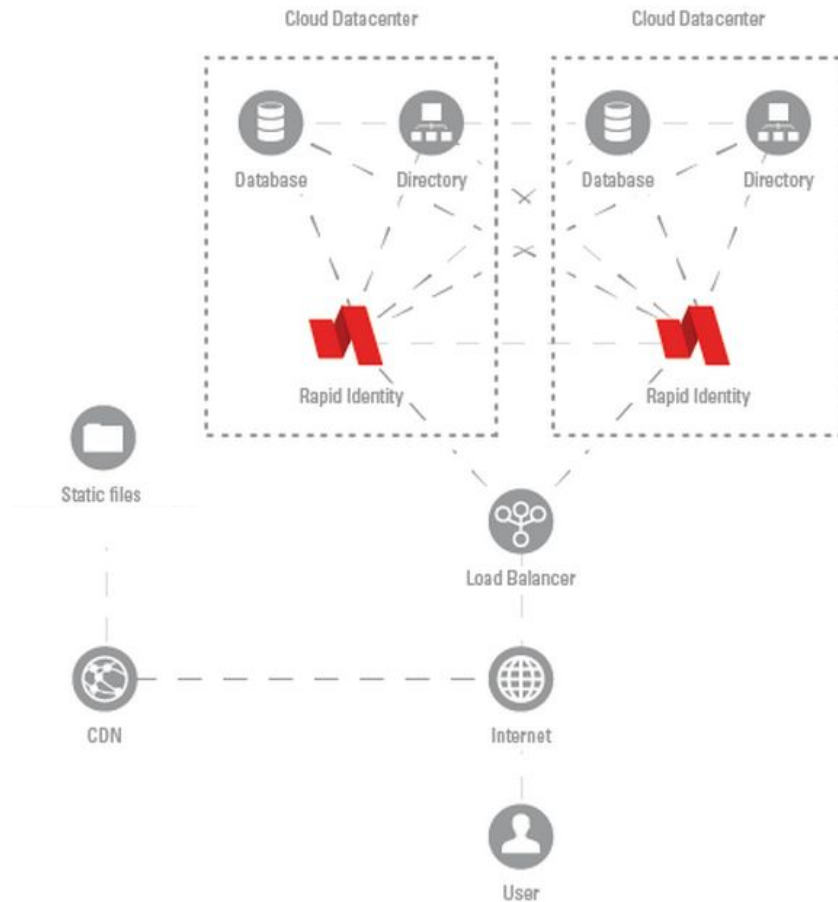
Logical Architecture



Solution Architecture



Cloud Architecture



NCEdCloud IAM Service

Q&A

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