

Need a Shared Index?
**TRLN Discovery Project: Software and
AWS Architecture Overview**



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TRLN Discovery is a collaborative software development project which allows users to find materials from all Triangle Research Libraries Network (TRLN) member libraries within a single index. The new shared discovery service was built using open source software tools and can be locally customized. The consortium-wide index is based on a SolrCloud cluster and installed on the Amazon Web Services (AWS) cloud.

Software used:

Software	Definition	Shared	Hosting
Marc-to-argot	Converts MARC into Argot (shared ingest format)	No	AWS or Client
Spofford – client	Command line utility to interact with Spofford	No	AWS or Client
Spofford	Rails app for ingesting and enhancing bibliographic records for TRLN	Yes	AWS
Solr	Index	Yes	AWS
TRLN Argon	Rails Engine that provides additional features to bootstrap Blacklight	Yes	N/A
Discovery	Customized version of TRLN Argon	No	AWS or Client

GitHub: <https://github.com/trln/>

Four Blacklight-based catalogs:

- North Carolina State University (NCSU): <https://catalog.lib.ncsu.edu>
- Duke University: <https://find.library.duke.edu>
- University of North Carolina at Chapel Hill (UNC-CH): <https://catalog.lib.unc.edu>
- North Carolina Central University: <http://catalog.nccu.edu/>

Hosting on Amazon Web Services

Pros	Cons
Well-documented Flexible Stable Allows quick changes Variety of services for variety of needs Free, local consultation	Requires knowledge of application construction Steep learning curve Difficult to predict cost of services Isolating different environments requires significant preparation

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