



String Project

- for ETC "Production in the Cloud"

Summary

The Entertainment Technology Center (ETC) at the University of Southern California is driving a new initiative, "Production in the Cloud", a project involving media and cloud-resource leaders. The project seeks to create guidelines and develop a standard for the next generation of cloud-based content creation, production, and distribution. The goal of the project is to improve the life cycle of film and media production. Executives from major production studios in coordination with Rackspace, EMC, EVault, Front Porch Digital, DAX, Google and other cloud companies serve to guide the initiative. String Project is a component of the larger "Production in the Cloud" project. String Project is driven by contributors from DAX.

Key

item	function
String metadata API	register service against asset ID, register metadata (?), register user/service provider (for now, use keystone later), register service, auth, lookup asset ID, add parent/peer Spring service, configure synchronization set
String metadata API client	an application capable of processing information from the String API

Activities

1. document IO API
2. document String REST API
3. build String client
4. build String daemons

API Elements

Login/Identify User
Change Password
Register AssetID with Service
Update AssetID Service
Delete AssetID Service
Register Us
Register Service
Query Regis
GetAllServicesByAssetHash
GetServices
GetAsset
UpdateAsset
Add Parent/Peer Registry (Phase 2)
Configure Synchronization
Logout

Data Model Elements

Users

id: int (autogen unique)	7
password: string	Password123
userGUID: string	(128-bit integer)
email: string	chris@daxcloud.com
isAdmin: Boolean	0 or 1
Username: string	Chris
Oldpassword: string	old@123

128-bit UUID is normally represented by unsigned char data[16]
Users are created by ETC or company administrators.
Users are not tied with assetIDs.

Assets

id: int (autogen unique)	23
assetHash: string	0d6dce44a124443d845af191c4d1b64
serviceToken: string	64 (length)
URI: string	https://my.service.com/lookup/blah?asset=%assetHash%
description: string	The parent owner of thie asset and all of its derivatives is the ETC.
metadata: string	(as of now: description only)

The asset URI points to the metadata of the asset.

Service

id: int (autogen unique)	5
serviceName: string	Ownership Information
serviceToken: string	OWNER
isPublic: Boolean	True
serviceDescription: string	This service type provides ownership information about the asset. A non-parameter call to the URI will provide more information about how to access this service.

Usersession

id: int (autogen unique)	5
userName: string	Raghu
userSession: string	Fklsjhflsdka hfakjhskfhkej r h e
sessionTime: timestamp	2014-10-21 18:20:08
userGUID: string	oiudfoisdufoiioeuroisdufoiwuankajdluia

Attachment: StringAPI_v2_2.doc