

Standard Rubrik Pitch (Slide 1/100)



Welcome to Rubrik Build

APIs, Chatbots and Backups, Oh My!

There is really only one marketing slide







Chris Kapusta

Tweets y mwpreston

Mike Preston

Codes mwpreston

Works Developer Advocate

@ Rubrik

Does Coding, Writing, Talking

Likes Maple Syrup & Hockey

Tweets Pusta

Works Principal Architect

@ Insight CDCT

Does Standing off to the side in

presentations, Speaking, Coding

Likes Video Games and Bourbon

Tweets vmoprcmd

Mike McLain

Codes vmoprcmd

Works Architect, Data Protection

@ Insight CDCT

Does Coding, Testing, Problem Solving

Likes SB Champions KC Chiefs, Aviation





Taking a Different Approach with APIs



Full-featured APIs

Built API-first with a web UI that consumes its own APIs.

All functionality is exposed over REST, so you can easily integrate or build on top of Rubrik.



User-friendly Resources

Get started immediately without any REST API knowledge.

Easy to access and learn with interactive documentation, sample code, and example use cases.



Pre-built Integrations

Integrate with your existing tools or extend to any third party provider.

Easy to consume with pre-built integrations that are supported by our core engineering team.



Rubrik Build

- An open source community around Cloud Data Management and protection
- Focus on education and tools
- There is no charge to participate or consume and all are welcome

https://build.rubrik.com



Rubrik Build

Program Offerings

Global Workshops

The workshops cover the following:

- Welcome to Rubrik Build
- Introduction to Version Control with Git and GitHub
- Introduction to APIs
- Introduction to Programming Concepts
- Learning PowerShell (and other languages)
- Developing a CI Build & Release Pipeline





Build the Future of Cloud Data Management



Software **Development Kits**





PowerShell >



Python >



Tooling Integrations



Ansible >



VMware vRealize >



Monitor Rubrik with Splunk >





Use Cases



Roxie, Rubrik's Intelligent Personal As... >



Backup Validation with PowerShell >



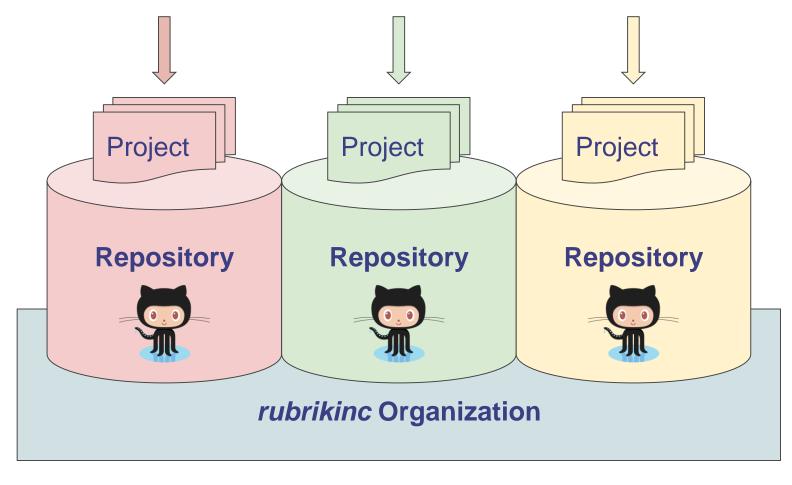
Provision and Protect with vRealize >

VIEW ALL USE CASES



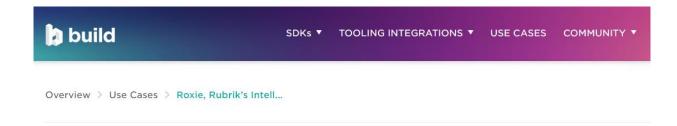
Content Repository

- All code, documentation, and community discussion occurs on GitHub.
- Each project is stored in its own repository.





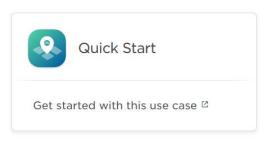
Documentation

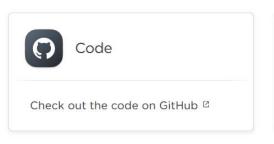




Roxie, Rubrik's Intelligent Persona Assistant

Construct a Roxie of your very own and explore the idea behind run ChatBot that can interpret spoken or written words to determine int This project is all about learning how to construct API calls to Rubril AWS Lambda functions, design an AWS Lex ChatBot, and put it all together!

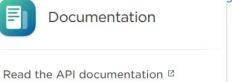




Quick Start Guide: Roxie Bot

Table of Contents

- Introduction to the Roxie Bot
- Rubrik Cluster Configuration
 - Generate a Rubrik API Token
- AWS Environment Configuration
 - VPC Networking
 - IAM Roles
 - Role for AWS Lambda
 - Role for AWS Lex
- AWS Lambda
 - Function Creation
 - Modifying the Lambda Role
 - Function Configuration
 - Function Code
 - Environmental Variables
 - Network
 - Function Testing
 - Troubleshooting





Contributing

Code Contributions

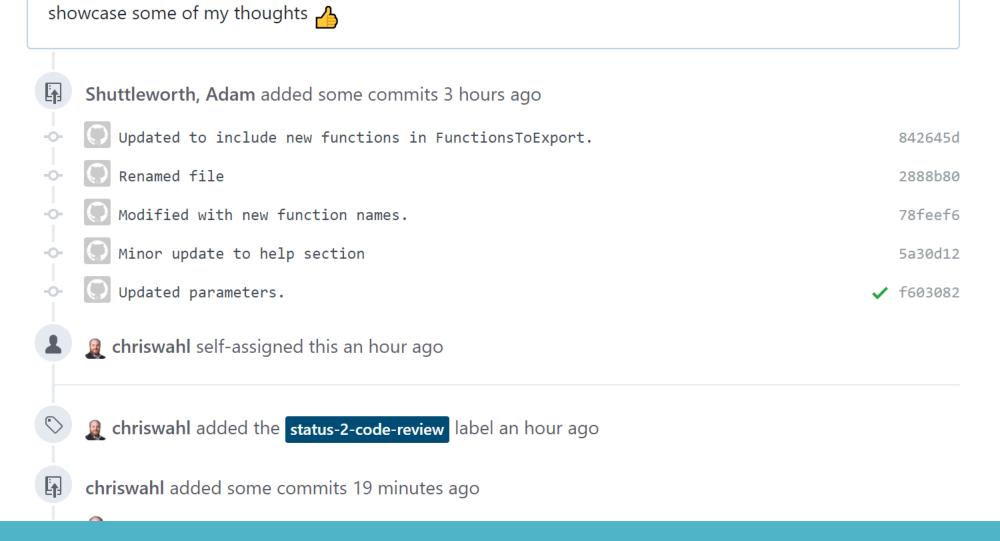
- Pull Requests (PRs) are used by individuals who wish to contribute to a project. The high level workflow is as follows:
 - Individual creates a Fork of a Rubrik Build project to their own GitHub account.
 - Individual makes changes to the Fork copy of the project.
 - Individual submits a PR requesting that the Rubrik Build project "pull in" their changes.
- Issues are also helpful. Help us identify problems!



Non-Code Contributions

- Hosting or speaking at meetups
- Artistic contributions
- Updating existing documentation and adding new features
- Translation and localization
- GitHub management (tags, issue triage, etc.)





@atscomposer | merged an example change over to your fork in the Get-RubrikSetting function just to

Work Together on Features



As a new Rubrik customer I wanted to be able to set some of these settings and configurations via script and found adding them to the SDK was easier than I thought. :)

https://github.com/rubrikinc/rubrik-sdk-for-powershell/pull/263



Use Case Overview

Roxie

What are we working with?



Rubrik CDM



Python



Amazon Lex



AWS IAM



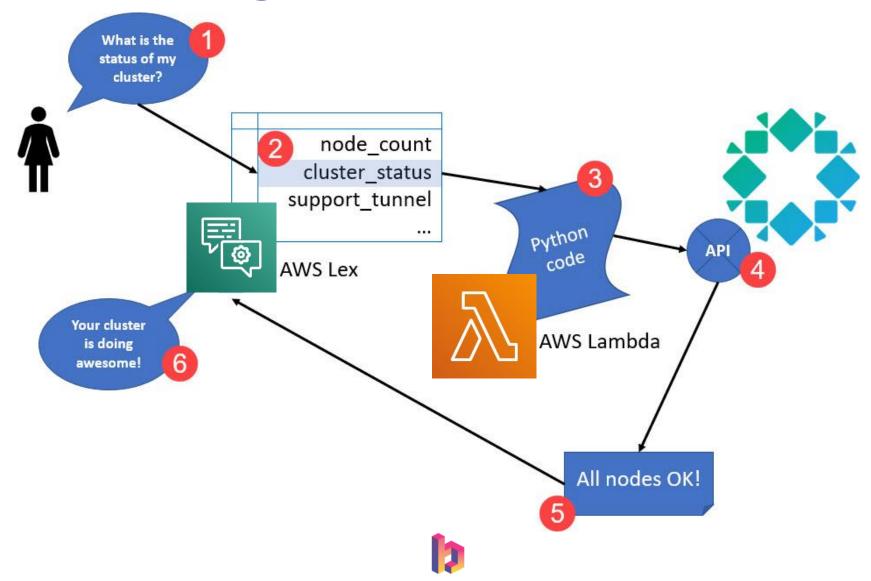
AWS Lambda



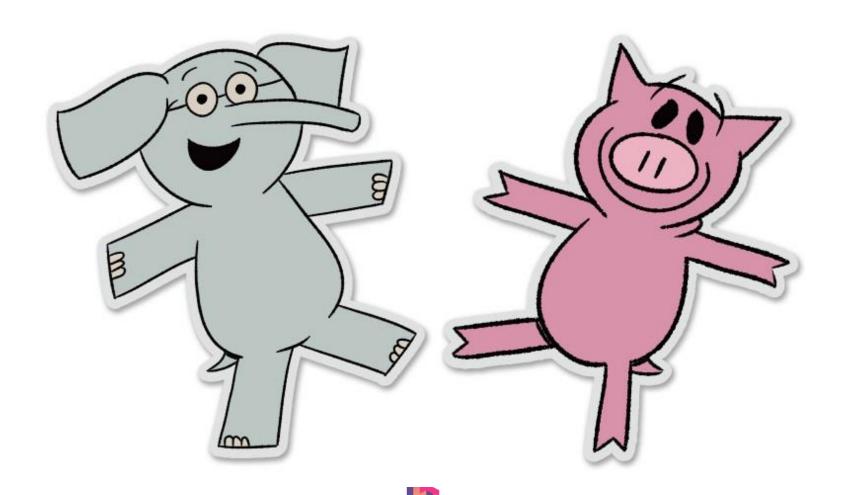
AWS VPC



High Level Diagram



Demo Time - A look at Roxie (in the Insight Lab)



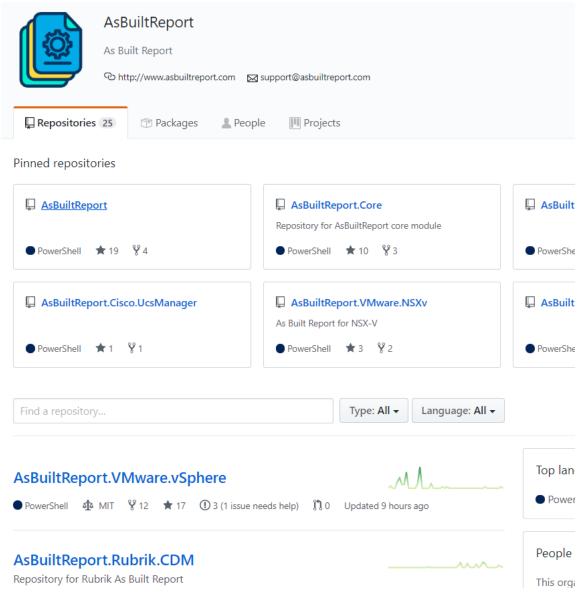


Use Case Overview

Rubrik As Built Report

What is the As Built Report project

- Open Source Configuration
 Document Framework created by
 Tim Carman and Matt Allford
- Written in PowerShell
- Modular design provides ease of updates
- Multiple detail levels for granular control of reports
- Multiple output types (HTML, DOCX, XML, & TEXT)





Rubrik As Built Report Module

- 100% reliant on the Rubrik SDK for PowerShell
- Divided into 4 main sections
 - Cluster Settings DNS, Network, Security, Users, Storage, etc..
 - SLA Domains RPO, Archive, Replication, Object inclusion
 - Protected Objects Name, Type, Metadata, Snapshot information
 - Unprotected Objects Name, Relic status, Retention status

The following section provides information on the configuration of the Rubrik CDM Cluster Cluster_B

Name	Cluster_B
Number of Briks	1
Number of Nodes	4
Software Version	5.0.3-p3-2397

1.1.1 Cluster Storage Details

Total Usable Storage (TB)	30.1
Used Storage (TB)	3
Available Storage (TB)	27

1.1.2 Network Settings

The following contains network related settings for the cluster

1.1.2.1 Cluster Interfaces

Interface Name	Туре	Node	IP Addresses	Subnet Mask
bond0	Management	RVM182S004243	192.168.150.121	255.255.255.0
bond0	Management	RVM182S004439	192.168.150.122	255.255.255.0
bond0	Management	RVM182S004912	192.168.150.123	255.255.255.0
bond0	Management	RVM182S004944	192.168.150.124	255.255.255.0

1.1.2.2 DNS Configuration

DNS Servers	10.10.15.5 10.10.12.131 10.10.12.132 10.10.12.133 10.10.10.5
Search Domains	rubrik.us adpaper.local

1.1.2.3 NTP Configuration

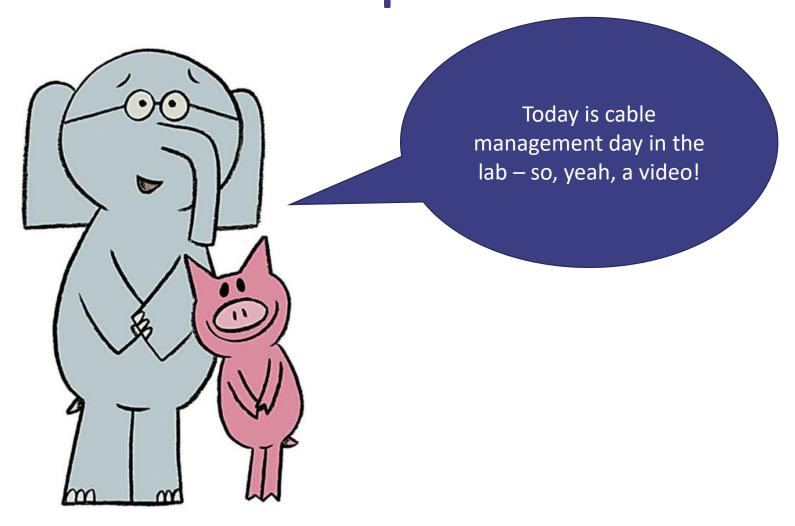
Server	
pool.ntp.org	

1.1.2.4 Network Throttling

Resource ID	Enabled	Default Throttle Limit
ArchivalEgress	False	9223372036854.77
ReplicationEgress	False	9223372036854.77



Demo Time – A look at the Rubrik As Built Report





➢ Windows PowerShell

PS C:\Users\mwpreston>

Now What?

- Set up Roxie in your own environment
- Fork the repo, and add your own functions
 - Submit a PR and show us your work
- Run the As Built Report in your environment
 - Submit issues on GitHub
- More than just Chatbots & Reports Ansible, PowerShell, Terraform, CloudFormation, ARM, Python....
- Join the Rubrik Build Slack channel https://slack-invite-automation.azurewebsites.net
 - Password: build
- Follow @RoxieAtRubrik and @RubrikBuild







Building the Future of Data Management

Slides, Code, & Links all located on https://github.com/mwpreston/presentations