**MICHIGAN STATE** UNIVERSITY **Alpha Presentation Endpoint Data Monitoring and Analysis** Agent The Capstone Experience Team Rook Jared Clark **Drew Gilbertson** Bohao Gao Jeremy Specht

> Department of Computer Science and Engineering Michigan State University Spring 2018

Vikram Thakur

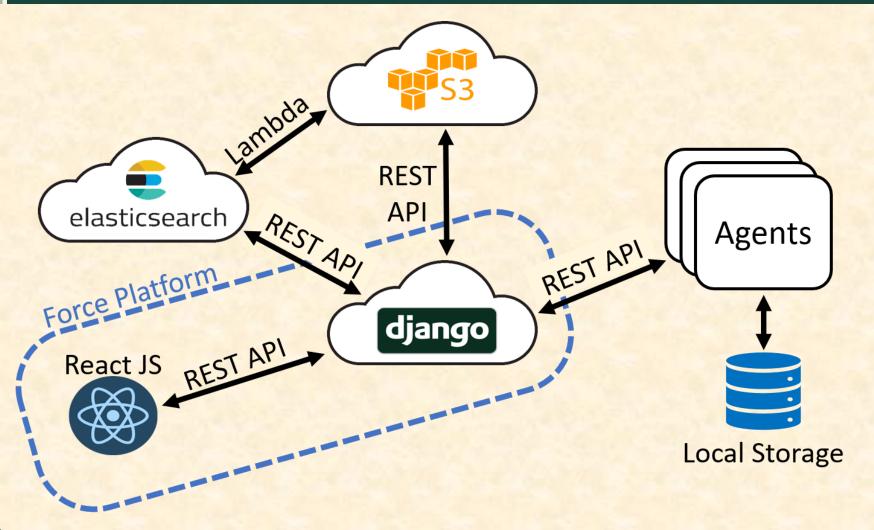


From Students... ...to Professionals

#### **Project Overview**

- Endpoint Agent Log Collection
  - Cross Platform Compatible
- Communication Channels for Data
  - Configurable
- Web Application to Analyze Agent
  - Configuration
    - Log Paths, Storage Location
  - Health Analysis
    - Alert Priorities

## System Architecture

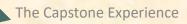


# **Force Platform**

$\left  \begin{array}{c} \bullet \bullet$	DEV: Rook   FORCE O localhost:8082/agents/	× Config		⊖ ☆ 📓 <b>0</b>
*	ROOK SECURITY	ORKSPACE CONSOLE	SETTINGS AGENTS	SEND FEEDBACK JS
1.0			Agent Management Console	
	AGENT HEALTH		Select Client: Select Agent: Meijer - MeijerAgent1 -	DEFAULT STORAGE LOCATION
		Change Interval: Current Interval: 15 Minutes New Interval:	Log File Paths: • corecaptured.log • displaypolicyd.stdout. • hfs_convert.log • install.log • system.log	Select Unique Location: AMAZON S3 BUCKET
			Add Path: Remove Path:	

# **Force Platform**

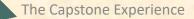
● ● ●		⊕ ☆ 躍 •
S DOOK SECHIDITY	SPACE CONSOLE SETTINGS AGENTS	SEND FEEDBACK JS
AGENT HEALTH CO	Agent Management Cons Select Client: Select Ager DNFIGURATION Meijer - MeijerAgent	INT: DEFAULT STORAGE LOCATION
Log Volume (Last Hour) var/sys/log: 85 var/wiki.log: 3 var/security.log: 8 var/log/xilog: 3	Agent Info Client: Meijer Agent ID: MeijerAgent001 Operating System: Mac OS Storage Location: Amazon S3 Bucket Time Zone: EST	Health Status Agent Health Status: Good System Health Status: Good
	Agent Config Info Last Config Change: 2/18/18 Paths Changed: added var/log/klog Interval Change: 15 mins Storage Change: Amazon S3 Bucket User: Jeremy Specht	Agent Alerts  Alert 1 Alert 2 Alert 3 Alert 5 Alert 6 Alert 7 Alert 8 Alert 9 Alert 10



## **Storage System**

• 🔼	Alpha - Google Drive 🗙 🤤 S3 Management Console 🗙 📃				
G	Secure   https://s3.console.aws.amazon.com/s3/buckets/msu-ss18-test/MACOSX/1234/?	region=us-east-2&tab=overview			☆
pstone	🍍 MSU Mail 🛛 & Rook Drive 🧧 How to Ship Linux S 📿 HipChat 🏮 S3 Management Co 🏮	s3->lambda->elastic 🛛 🗧 ES https://10.160.10			
aws	Services - Resource Groups - 1		∴ drew.gilb	ertson @ rook-msu 👻 Global 👻	Support -
Am	nazon S3 → msu-ss18-test / MACOSX / 1234				
	Overview				
Q	Type a prefix and press Enter to search. Press ESC to clear.				
2.	Upload + Create folder More ~			US East (Ohio)	C
				Viewing 1 to 12	
	Name 1=	Last modified ↑=	Size 1=	Storage class 1=	
	testAuthorization1_2018-02-18T17#01#41-05#00.gz	Feb 18, 2018 5:02:52 PM GMT-0500	23.0 B	Standard	
	testAuthorization2_2018-02-18T17#02#41-05#00.gz	Feb 18, 2018 5:03:52 PM GMT-0500	23.0 B	Standard	
	b testSystem1_2018-02-18T13#49#08-05#00.gz	Feb 18, 2018 1:50:20 PM GMT-0500	268.0 B	Standard	
	testSystem1_2018-02-18T15#41#18-05#00.gz	Feb 18, 2018 3:42:30 PM GMT-0500	282.0 B	Standard	
	testSystem1_2018-02-18T15#59#08-05#00.gz	Feb 18, 2018 4:00:19 PM GMT-0500	322.0 B	Standard	
	testSystem1_2018-02-18T17#01#41-05#00.gz	Feb 18, 2018 5:02:52 PM GMT-0500	23.0 B	Standard	
	testSystem2_2018-02-18T16#00#08-05#00.gz	Feb 18, 2018 4:01:19 PM GMT-0500	23.0 B	Standard	
	testSystem2_2018-02-18T17#02#41-05#00.gz	Feb 18, 2018 5:03:52 PM GMT-0500	649.0 B	Standard	
	testWifi1_2018-02-18T13#49#08-05#00.gz	Feb 18, 2018 1:50:20 PM GMT-0500	23.0 B	Standard	
	testWifi1_2018-02-18T15#41#18-05#00.gz	Feb 18, 2018 3:42:30 PM GMT-0500	23.0 B	Standard	
	b testWifi1_2018-02-18T15#59#08-05#00.gz	Feb 18, 2018 4:00:19 PM GMT-0500	23.0 B	Standard	
	testWifi2_2018-02-18T16#00#08-05#00.gz	Feb 18, 2018 4:01:19 PM GMT-0500	23.0 B	Standard	
				Viewing 1 to 12	

🗨 Feedback 🛛 🚱 English (US)



### What's left to do?

- Remote Configuration of Agent
- Front-End Development
  - Refine Interface Functionality
- Back-End Development
  - Feature Expansion
- Elasticsearch
  - Integration

### **Questions?**

