FOGLIGHT

Foglight Skills 101

Episode 5

Exploring REST API Functionality

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About the Speaker

- Clay Jackson, Sr Pre-Sales Engineer
- Master’s Degree in Software Engineering
- 12 years at Quest working with Foglight and Shareplex
- 2 Years on Foglight Customer Advisory Board
- 25+ years DBA/DBA Manager
- Telcom Startup Software Development Manager
- 10 years at Microsoft (Support / OS/2 Dev / MIS)
- Open-Source Contributor (XASTIR/weewx/HomeAssistant)

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Agenda

- Introduction
- Why REST for Foglight?
- API Overview
- Demo
- Q & A

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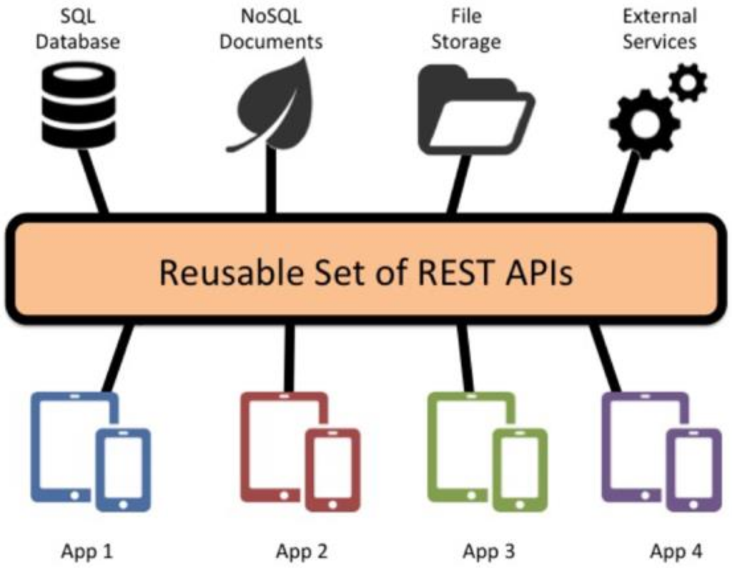
Why REST for Foglight?

- Logical Extension
- Language neutral
  - Java
  - php
  - Python
  - Perl
  - Ruby
  - GO
  - Shell
- Self Defined Data
  - JSON
  - XML
- External to Foglight
  - Less overhead
  - Not groovy
  - Machine independent



REST API Overview

- **Supported Version:** Foglight 5.7.5.7 or later
- **Core Functions:** Get, Post, and Delete—manage topology objects seamlessly
- **Security:** Requires login and proper authorization
- **Access Control:** Managed through access tokens for secure interactions
- **Important:** Always refer to the API documentation specific to your version for accurate details

Application Overview

Get App information –

- Retrieves detailed application metadata, including version, deployment status, and configuration.
- Supports system audits, troubleshooting, and integration workflows.

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Authentication & Profile

Security

- Log in to authenticate and access the system.
- Log out to end the session.
- Manage user tokens: create, set, or delete tokens for specific users or the current session.

User

- Retrieve information about the currently authenticated user

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Agent Management

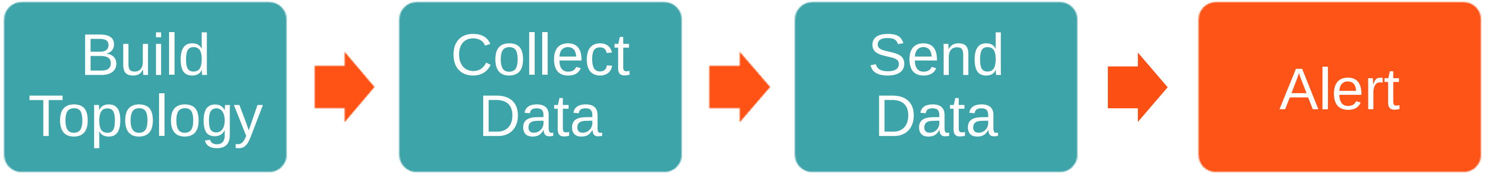
- Retrieve agent detail by agent ID
- List all active agents
- Get all agents in the system
- Identify inactive agents
- Start agent by agent ID
- Stop agent by agent ID
- Remove agent by agent ID

Alarm Management

- Acknowledge alarm by alarm ID
- Clear alarm by alarm ID
- Retrieve alarm by alarm ID
- Get alarms by rule ID
- List all current alarms
- Access historical alarms
- Obtain current alarms for a topology object
- Retrieve historical alarms for a topology object
- Create new alarms
- Send alarms filtered by specific properties
- Submit alarms based on a query criteria

DEMO

Foglight: Real-time Backup Monitoring



Build Topology → Collect Data → Send Data → Alert

Closing Thoughts

- This is an Application Programming Interface
- Software Engineering principles apply
  - Error handling
  - Deal with No data
  - Modular Code
  - Microservices
- You won’t break Foglight
- Your application is your responsibility
- Have Fun!

Resources

- www.quest.com/foglight - Foglight Home Page
- https://github.com/Foglight/RestAPI101 – REST API using Postman
- https://github.com/Foglight/foglight-rest-api-shell-sample-code – Linux Shell Samples
- https://github.com/Foglight/foglight-rest-api-python-sample-code - Python Sample Code
- https://github.com/Foglight/foglight-rest-api-java-sample-code – Java Sample Code
- https://github.com/Foglight/foglight-rest-api-go-sample-code – GO Sample Code
- https://support.quest.com/technical-documents/foglight/7.3.0/rest-api-reference-guide - REST API Reference Guide – Version Specific

Questions?

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Data Intelligence
Metadata management
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Extend Foglight Topology using the REST API

July 23rd, 2025

Clay Jackson

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