Zone Management Tool (ZMT)
Develop a user-friendly, easy to deploy, fast, and light-weight GUI to manage an iRODS Zone

- Based on React.JS SPA Framework
- Talks to iRODS C++ REST API
- Exposes reporting and configuration of all iRODS Servers
- Assumes the administration duties of Metalnx
- Focuses on administrator concerns

https://github.com/irods/irods_client_zone_management_tool
ZMT - Configuration

Minimum required configuration:
- URL of your iRODS Zone's C++ REST API endpoint

Additional configuration available:
- Listen port for ZMT
- An image to serve as the login logo
- An image to serve as the branding logo
- A branding name
- Theme colors (primary & secondary)

A sample.env file is provided for reference...
ZMT - Configuration - sample.env

1 LISTEN_PORT=3000
2 REACT_APP_REST_API_URL=protocol://host:port
3 REACT_APP_APPBAR_LOGO=iRODS-logo.jpg
4 REACT_APP_LOGIN_LOGO=iRODS-logo-1.png
5 REACT_APP_BRANDING_NAME=Zone Management Tool
6 REACT_APP_PRIMARY_COLOR=#04bdaf
7 REACT_APP_SECONDARY_COLOR=#ffffff
ZMT - /servers - Table View

- Loads data from /zone_report REST endpoint
- A sortable table view of all servers in the iRODS Zone
- Displays basic server information
- Detail view available for each server
Server Details

- **General**
  - Catalog Provider Hosts: ip-172-31-2-221.ec2.internal
  - Catalog Service Role: provider
  - Client Api Whitelist Policy: enforce
  - Default Dir Mode: 0750
  - Default File Mode: 0600
  - Default Hash Scheme: SHA256
  - Default Resource Name: demoResc
  - Match Hash Policy: compatible
  - Server Control Plane Encryption Algorithm: AES-256-CBC
  - Server Control Plane Encryption Num Hash Rounds: 16
  - Server Control Plane Port: 1248
  - Server Port Range: 20000 – 20199
  - XMSG Port: 1279
  - Zone Auth Scheme: native
  - Zone Port: 1247
  - Zone User: rods
Resources section has two views - table view and tree view.

Table view allows administrator to:

- view the name, hostname, type, and vault path of a resource
- sort each column
- filter results by name, live per keystroke
- edit a resource
- remove a resource
- add a new resource

Demo #1: Updating the context string of a resource
ZMT - /resources - Tree View

- Shows the resource hierarchy with parent/child relationships
- Allows administrators to
  - stage multiple drag and drop operations
  - undo/redo staged operations
  - reset staged operations
- Sends staged changes to iRODS REST API
ZMT - /users and /groups

- Listing of users and groups
- Filtering for large lists
- Create/delete a user/group
- Manage group membership

Demo #2: Adding and Removing a user from a group
ZMT - iRODS REST API Endpoint Connection

Endpoint Connection

Rest API URL: http://54.210.60.122:80/irods-rest/1.0.0
/admin: OK
/auth: OK
/query: OK
/zone_report: OK

Last checked: Wed, 09 Jun 2021 18:11:53 GMT

TEST CONNECTION
Future Work

- Delay queue administration
- Ticket administration
- Monitoring and metrics
- Policy administration

Status

- iRODS C++ REST API - Not Yet Released
- ZMT - Not Yet Released
- First releases - Summer 2021?
Questions?

ANY QUESTIONS?