EWDJS INTRO WHAT IS EWDJS AND HOW DO I USE IT?

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WHAT IS EWD.JS?

- EWD.js is a Node.js framework that is designed to talk to M based (NoSQL) databases using the same API calls:
 - GT.M
 - Caché
- EWD.js also has support for:
 - MongoDB
 - EWD Blog on supporting MongoDB "http://robtweed.wordpress.com/2013/12/02/a-new-chapter-for-ewd-js-now-supporting-mongodb/"
 - Disk based JSON data store
 - EWD Blog on EWD.js for Raspberry Pi where the disk db is used -
 - "http://robtweed.wordpress.com/2013/11/12/ewd-js-for-the-raspberry-pi/"

HOW DO I GET EWD.JS INSTALLED?

- If you want to have it hooked up with VistA:
 - The OSEHRA Vagrant installation scripts
 - dEWDrop
- You can walk through the directions manually and install an M(UMPS) envrionment, node.js, node.js M(UMPS) module, and EWD.js
- I'm going to focus on the OSEHRA Vagrant installation scripts, cause I'm the developer of them </shameless plug>

M(UMPS) MODULE?

- EWD.js relies upon 2 different M(UMPS) modules to provide connectivity to the M database depending on the M(UMPS) environment that is in use
 - nodem
 - Used to support the opensource GT.M M(UMPS) environment
 - GT.M website "http://www.fisglobal.com/productstechnologyplatforms-gtm"
 - cache.node
 - Used to support either the licensed Caché product or globalsDB
 - Globals DB website "http://www.globalsdb.org/"

GETTING STARTED

- If you have git, virtualbox, and vagrant installed you are ahead of the game. If not, they are simple installers and open source
- Documentation is available at the OSEHRA github site
- https://github.com/OSEHRA/VistA/blob/master/Documentation/ Install/Vagrant.rst

EWD PAGES IN VM

- Main managemnet console
 - httpS://localhost:8080/ewd/ewdMonitor/index.html
- VistA Demo
 - httpS://localhost:8080/ewd/VistADemo/index.html

EWD FILE LOCATIONS

- Debug log
 - /home/osehra/log/ewdStartOut.log
- Error log
 - /home/osehra/log/ewdStartOut.log
 - Only used for severe EWD.js errors (EWD.js didn't start)
- EWD Rest log
 - /home/osehra/log/ewdRestOut.log
 - /home/osehra/log/ewdRestErr.log
 - I haven't seen anything written to this log. Only for severe errors

EWD VISTA DEMO LOCATIONS

- Backend JavaScript
 - /home/osehra/node/node_modules/VistADemo.js
- Frontend JavaScript
 - /home/osehra/www/ewd/VistADemo/app.js
- Frontend Application
 - /home/osehra/www/ewd/VistADemo/
 - This is a bootstrap V3 (http://getbootstrap.com/) application
- Recommended resources
 - EWD.js & VistA: A Technical Deep-Dive into the VistA Demo Application -"http://robtweed.wordpress.com/2014/03/02/ewd-js-vista-a-technical-deep-dive-into-the-vista-demo-application/"
 - EWD.js Documentation "http://gradvs1.mgateway.com/download/EWDjs.pdf"

EWD REST VISTA DEMO LOCATIONS

- WebService
 - httpS://localhost:8000/ec2/vista
 - I use the Postman chrome application "https://chrome.google.com/webstore/detail/postman-rest-client-packa/fhbjgbiflinjbdggehcddcbncdddomop?
 hl=en"
- Service JavaScript
 - /home/osehra/node/node_modules/VistARestServer.js
 - /home/osehra/node/node_modules/VistADemo.js
- Recommended resources
 - EWD.js & VistA: Rest Interface "http://robtweed.wordpress.com/2014/03/02/ewd-js-and-vista-rest-interface/"
 - EWD.js Documentation -"http://gradvs1.mgateway.com/download/EWDjs.pdf"

RESTARTING EWD.JS

- As root (or sudo access)
 - "sudo service osehravista-ewdjs restart"
 - Will restart both the EWD.js service and EWD REST service
- Web Service Fake Restart
 - Start 2 new EWD Worker processes
 - Stop the old EWD Worker processes
 - Works to refresh the M code (it is cached)
 - Refreshes the backend JavaScript code (also cached)

RESOURCES

- EWD Files Blog
 - http://robtweed.wordpress.com/
- EWD.js Documentation
 - http://gradvs1.mgateway.com/download/EWDjs.pdf
- EWD google group
 - https://groups.google.com/forum/#!forum/ enterprise-webdeveloper-community
- OSEHRA Vagrant VM installation
 - https://github.com/OSEHRA/VistA/blob/master/Documentation Install/Vagrant.rst