

LexEVS Meeting Minutes - Docker Planning Session - 2017.03.30

Attendees

Name	Role	Present
Mensah, Jacob	NIH/NCI [C]	x
Hartman, Phil	NIH/NCI [C]	x
Wei, Lu	NIH/NCI [C]	x
Pan, Sue	NIH/NCI [C]	
Stockwell, Michael	NIH/NCI [C]	
Bauer, Scott	Mayo	x
Stancl, Craig	Mayo	x
Endle, Cory	Mayo	x

Links

- LexEVS Docker Overview
 - [LexEVS 16X237 Docker Setup](#)
- Docker scripts: lexevs-system-test git repository
 - <https://github.com/lexevs/lexevs-system-test/tree/v6.5.0>

Agenda

Discuss Mayo's current use of Docker and determine if/how this can be supported at NCI.

Discussion Points:

- Overview of what LexEVS team currently has running locally.
 - LexEVS has multiple components (separate GIT repositories)
 - Current Docker environment configured to build and run tests.
 - Containers communicate with each other for testing purposes
 - Jenkins configures the containers.
 - Test results are collated for review.
- Discussion of Goals
 - CI on NIH server (same thing that we do locally)
 - NIH has Jenkins already, so not a problem.
- Hardware Requirements for Docker
 - Minimally, a larger VM
 - Memory, CPU Cores
 - Currently running on one physical server.
- NIH is looking into Docker Swarm/Cluster.

Decision Points:

- Configure one physical server
 - Blade Server
- Will need to work with team to determine configuration and set up of environment.

<p>Discuss the possibility of creating reusable Docker containers based on NCI's technology stack and placing them on NCI's Nexus server where we can pull into our project.</p>	<p>Discussion Points:</p> <ul style="list-style-type: none"> • NIH reusable containers to be on Nexus. • NIH base image built <ul style="list-style-type: none"> ◦ This is an ongoing project to test the base line. • Repository is ready for pilot (NOT production) <ul style="list-style-type: none"> ◦ LexEVS usecase is very good for pilot. ◦ May want to look at getting LexEVS into a docker cluster. • Users will be able to manage own projects <ul style="list-style-type: none"> ◦ This will still allow the LexEVS team to have access. <p>Decision Points:</p> <ul style="list-style-type: none"> • NCI team is ready to take us on as a pilot. • As part of this, use evaluate and determine needs for docker cluster. • Provide Jenkins configuration details to Phil. May be able to push docker container to NCI docker hub. Optionally, we can provide screen share and share configuration. • NCI will need to potentially get the publish results plugin.
<p>Discuss the possibility of deploying our application to the different NCI tiers as Docker containers.</p>	<p>Discussion Points:</p> <ul style="list-style-type: none"> • This is NCI goal. • Currently working with other projects with goal of getting to production. <p>Decision Points:</p>
<p>The use of Jenkin's for running LexEVS builds and tests</p>	<p>Discussion Points:</p> <ul style="list-style-type: none"> • Toky and LexEVS team worked together to get Jenkins configuration set up on NCI server. <ul style="list-style-type: none"> ◦ Partially configured, but not completed before she left. • Phil said they can preserve what Toky completed. • Phil can import our configuration and replace what Toky did. • This is a separate Jenkins. <p>Decision Points:</p> <ul style="list-style-type: none"> • LexEVS team to export the Jenkins configuration for Phil.
<p>Next Steps</p>	<p>Next Steps:</p> <ul style="list-style-type: none"> • Jacob main touchpoint • Configuration details via email with Wei and Phil. • Continue to provide updates during the Wednesday systems call. • Additional meetings as needed. • Respond to TODos listed above. • Create a ticket for Jacob: Setup Docker and Jenkins for LexEVS.