

System Management WG Meeting: 11/13/18

Attendees: Akram, Trevor & Jim (Dell); Ian & Tony (Canonical); Alain. Attendees that may have joined after the start of the meeting may not have been captured and listed.

Discussion and action items as a result of meeting in RED

Old Business

- Review of scope from Edinburgh Face2Face Meetings
 - Specifically also discuss what is out of scope of system management (as decided by group on architects day)

New Business

- System Management demo video (tutorial) done by Akram.
 - <https://www.youtube.com/watch?v=tIEnEo6whas&feature=youtu.be>
 - Reaction and feedback; suggestions for other demos
- Start/Stop a micro service via SMA
 - Architect fail for Delhi (Jim's fault)
 - Issues we face(d)
 - Using Docker Compose and all the libraries required
 - Running SMA in Docker Container
 - Requirements and design going forward
 - What are likely things that SMA would call on to start (or stop)
 - Docker Engine/Docker Compose
 - call to exec binary (would cover sysd)
 - ~~some OS specific script~~
 - No – at least let's not do that right now for this release; let's see where use case and needs take us.
 - advanced use case and gets into potential OS versions, tools, etc.
 - The advantage of using a script (versus executable binary) is that it is real easy to change script (value to support bash type)
 - Discussion on what we need and how we implement
 - Problem – all new implementations has to be written in go – but we should decouple that thinking; allow for custom implementation
 - Run into problems if we use official Go plugins only
 - SMA should be there – but commands to do start/stop should be configurable / dynamic
 - Easier to do in a container environment (Mike Intel) – has all of its configuration all built in making it easier
 - Custom type – wouldn't require re-code, just configuration
 - SMA (configuration – where to start)-> what program do I run to start or stop with argument that needs to start (or stopped)

- Be prescriptive about it – don't just allow anything (in terms of what the SMA will call).
- Keep it simple at first – do Docker Compose or call executable binary.
 - Scripts we can handle by having the executable do a script if it wants (for now – relook in future)
 - When calling a binary, keep it simple by just passing services you want started or stop. No other parameters.
 - Let the other executable deal with its own config settings and parameters to get a service up.
- Container versus non-container “running”. These two need to be handled differently.
- Private registry – do we support 3rd party containers in our deployment and will the SMA handle?
 - Yes – just need to be in the manifest
- How does or should the SMA determine success/fail of start or stop
 - Desirable to get results – look at callback options as way to do it
 - Logging offers auditing capability – for more manual or use standardization on log entries to signal success/failure
 - Logging wouldn't make sense if it was done through a binary since it wouldn't have access to our EdgeX logging
- Jim and Akram on the hook to provide some preliminary ideas/design for next meeting.