

Go Working Group – 3/19/2018

Attendees:

Discussion and action items as a result of meeting in **RED**.

Last Go Lang Project meeting! Per on-line vote, this work will move into the Core Working Group.

Look for new Snappy Project meeting coming to Tuesday time slot.

Old business

Mono Repo

- Docker builds (not working yet)
 - Dockerfiles in branch are working – Fede to submit PR to move to master.
 - CI build/tests working on ARM are needed to complete everything appropriately
 - Tony – Snap using mono repos almost there – some files changed location and need to be addressed.
- ARM32 build
 - Is there a MongoDB binary for Arm32? Steve needs for Raspberry Pi.
 - To be put on to-do list after Arm64 all working.
 - We may need to consider getting and building our own infrastructure for these (Mongo, Consul, etc.)
- Consul integration
 - Trevor providing great working example via core services. Will export out to other services once work is completed.
 - Still need to demonstrate with YAML
 - Still need to update config-seed
- README consistency
 - Action: Jim to look at and try to improve once the services, Makefile, etc. are all a little more stable.
- Glide lock (and .gitignore)
 - Action: We should put versions in the Glide file so that new pull or CI build all get and use the expected version of a dependency.
 - The Glide Lock therefore can be added to .gitignore (and prevent someone from getting and using someone else's or getting one before a make install is done.

OMQ alternatives

Product	Native Language Bindings, OS support, etc.	Brokerless	License	Used By
Thrift	C, C++, Go, Python, Java,	Yes	Apache 2	Cloudera, Evernote, Facebook, Siemens
Nats	Go, Node, Ruby, Java, C, C#	No - server	MIT	Baidu, Siemens, HTC, Pivotal, VMWare,
gRPC	C, Go, Java, Python, Node	Yes	Apache 2	Square, Netflix, Cisco, CoreOS
Nanomsg	C, Go, Java, Python, Rust, Node	Yes	MIT	???

Thrift:

Apache Thrift allows you to define data types and service interfaces in a simple definition file. Taking that file as input, the compiler generates code to be used to easily build **RPC** clients and servers that communicate seamlessly across programming languages. Instead of writing a load of boilerplate code to serialize and transport your objects and invoke remote methods, you can get right down to business.

Thrift does require a “compiler” to create/generate a thrift file to use by the implementations.

Nats:

NATS **Server** is a simple, high performance open source messaging system for cloud native applications, IoT messaging, and microservices architectures.

Server binary is available for Linux (x86, x86_64, ARM), Windows (x86, x86_64), and macOS. Server image is available in Docker image. Server is 2.4 MB in size

gRPC:

A high performance, open-source universal **RPC** framework

a Cloud Native Computing Foundation project.

Nanomsg:

A socket library that provides several common communication patterns. It aims to make the networking layer fast, scalable, and easy to use. Implemented in C, it works on a wide range of operating systems with no further dependencies.

There is now also an implementation of nanomsg in pure Go: mangos.

<http://sealedabstract.com/rants/nanomsg-postmortem-and-other-stories/>

New business

Any Other Open Items??