

Common Bootstrap Package

Presentation to EdgeX Core WG

Michael Estrin

September 12, 2019

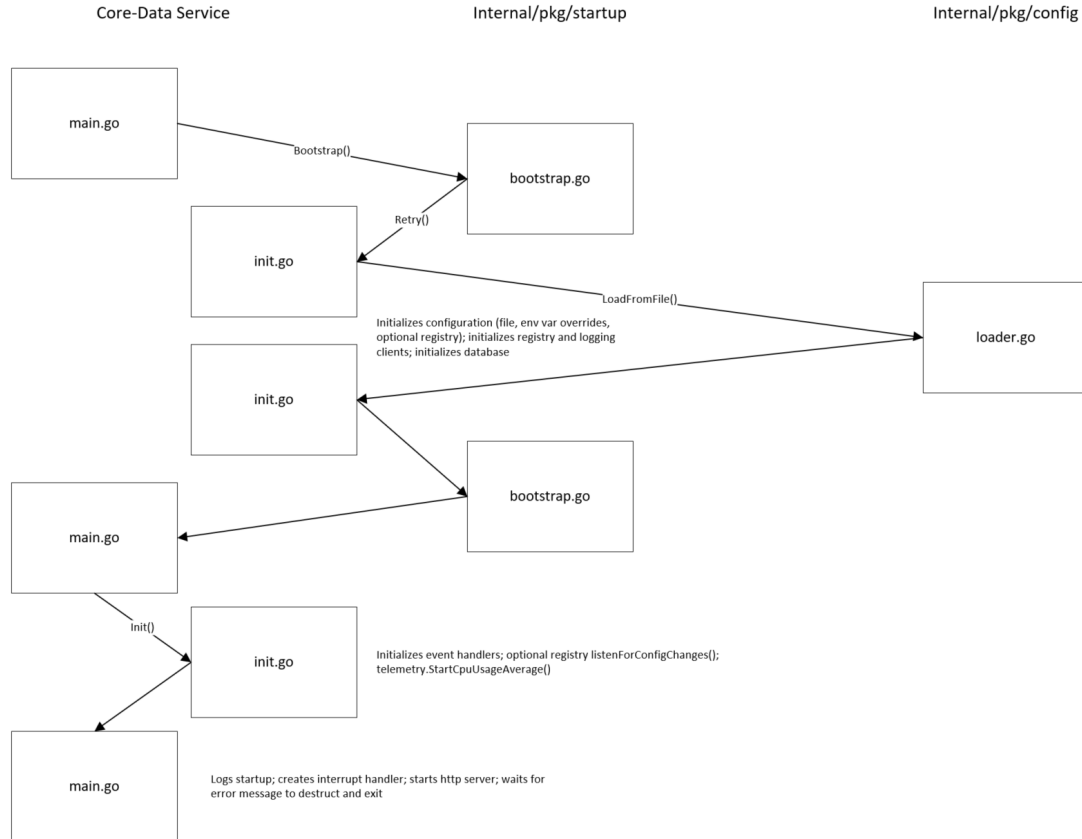
Focus of Spike

Replace existing bootstrap/startup implementation (copy/paste code) with a single extensible package that can be included and used by the core services

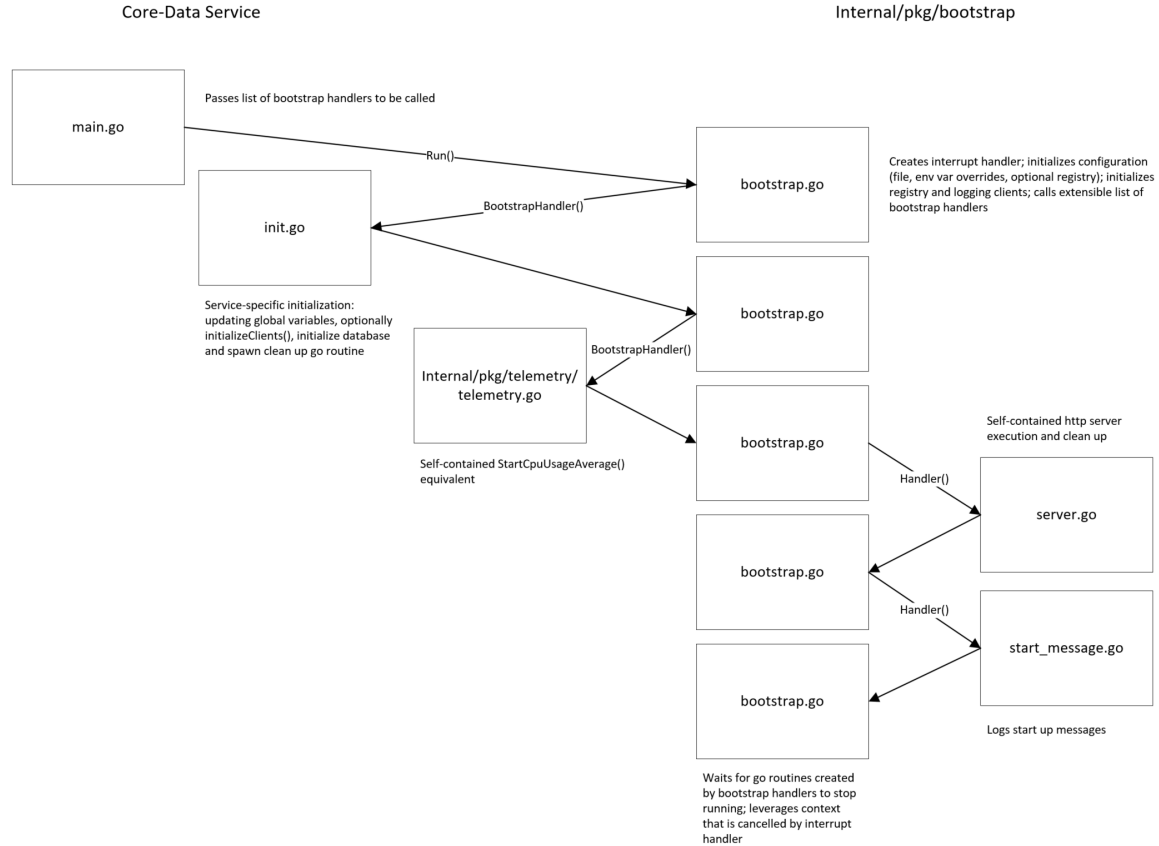
Goals

- Single extensible package
- Eliminate code duplication -- consolidate common code from each service's init.go
- Replace internal/pkg/config/loader.go, internal/pkg/startup/*
- Unified approach to concurrency, go routine shutdown and clean up
- Load configuration from file once outside of retry loop
- Improved encapsulation
- Implementation should provide a path forward to remove the global variables currently defined in each core service's init.go and referenced directly throughout the service's implementation

Existing Implementation (simplified)

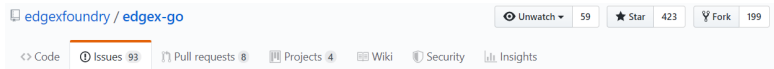


Proposed Implementation (simplified)



Spike

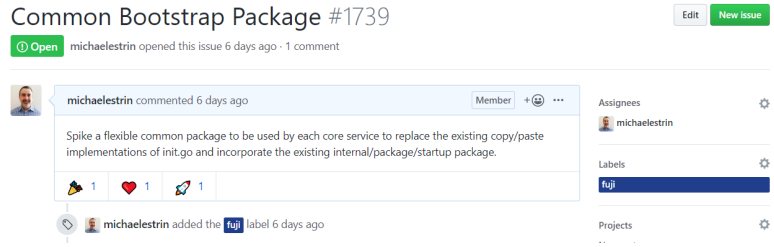
- Work-in-progress
 - Code illustrates the approach
 - Only converts core-data
 - Missing DocBlock comments
 - Missing unit tests
 - Extract database-related initialization to common implementation
- [edgex-go/issues/1739](#)
- [edge-go/pull/1751](#)
- PR intended to facilitate code-related discussion on approach



edgexfoundry / edgex-go

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Common Bootstrap Package #1739

Open **michaelstrin** opened this issue 6 days ago · 1 comment

michaelstrin commented 6 days ago

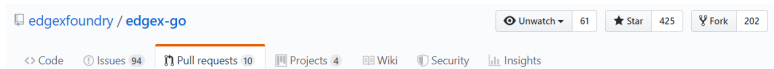
Spike a flexible common package to be used by each core service to replace the existing `copy/paste` implementations of `init.go` and incorporate the existing `internal/package/startup` package.

michaelstrin added the **fuji** label 6 days ago

Assignees: **michaelstrin**

Labels: **fuji**

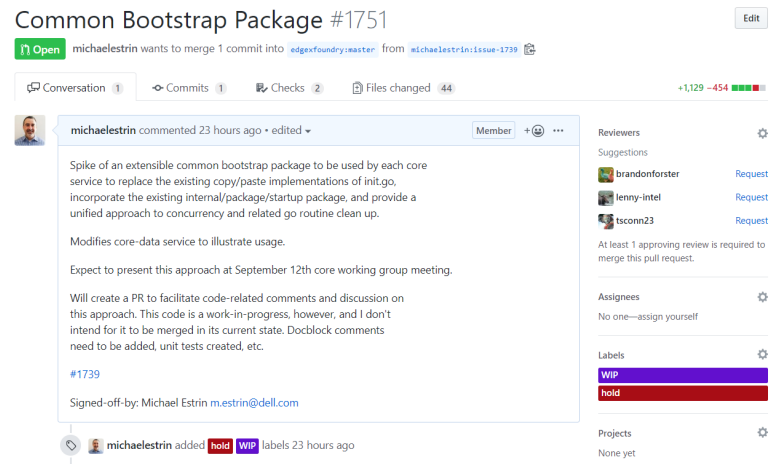
Projects: ...



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Common Bootstrap Package #1751

Open **michaelstrin** wants to merge 1 commit into `edgexfoundry:master` from `michaelstrin:issue-1739`

Conversation 1 Commits 1 Checks 2 Files changed 44 +1,129 -454

michaelstrin commented 23 hours ago · edited

Spike of an extensible common bootstrap package to be used by each core service to replace the existing `copy/paste` implementations of `init.go`, incorporate the existing `internal/package/startup` package, and provide a unified approach to concurrency and related `go` routine clean up.

Modifies `core-data` service to illustrate usage.

Expect to present this approach at September 12th core working group meeting.

Will create a PR to facilitate code-related comments and discussion on this approach. This code is a work-in-progress, however, and I don't intend for it to be merged in its current state. Docblock comments need to be added, unit tests created, etc.

#1739

Signed-off-by: Michael Estrin m.estrin@dell.com

michaelstrin added **hold** **WIP** labels 23 hours ago

Reviewers: **brandonforster** Request, **lenny-intel** Request, **tsconn23** Request

Assignees: No one—assign yourself

Labels: **WIP**, **hold**

Projects: None yet

Code and Questions

DELLTechnologies