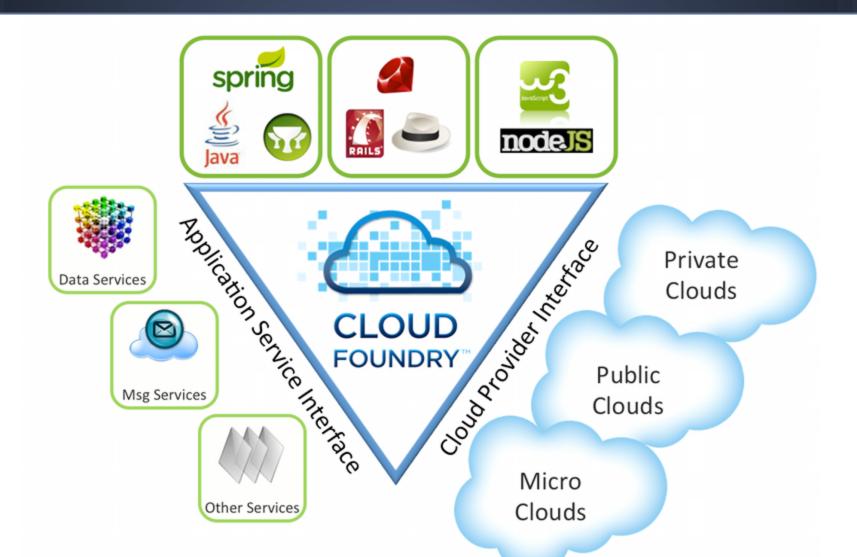
Go testing libraries

Stephan Hagemann Pivotal Labs, Boulder

https://github.com/shageman/gotestit

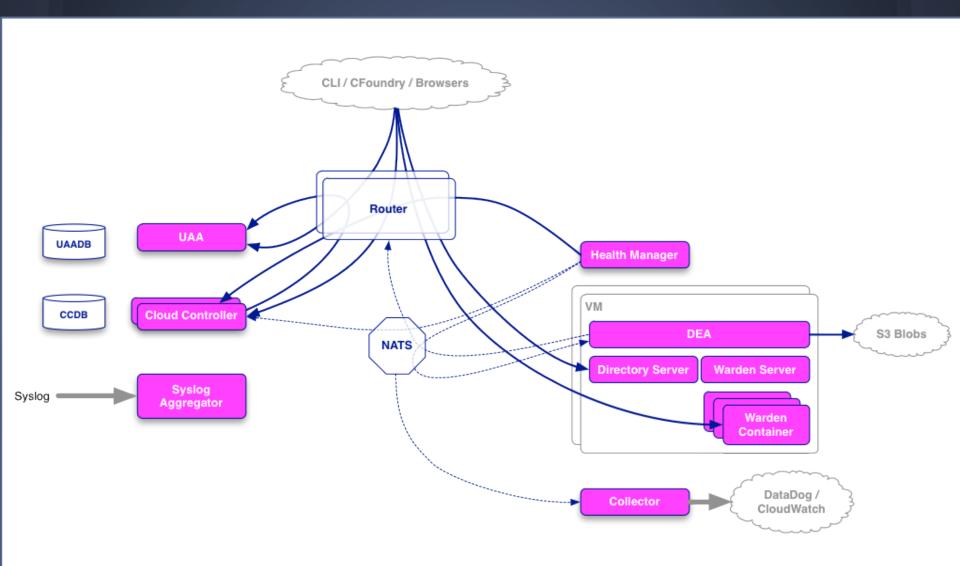
Background

CloudFoundry



http://blogs.vmware.com/vmware/2011/04/cloud-foundry-delivering-on-vmwares-open-paas-strategy.html

CloudFoundry Architecture



http://docs.cloudfoundry.com/docs/running/architecture/

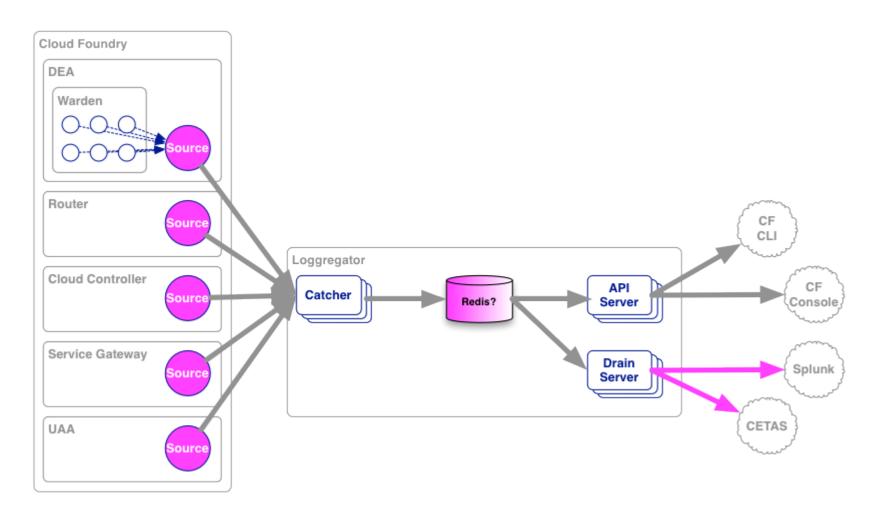
The Loggregator project

Loggregator is the user application logging subsystem for Cloud Foundry.

Loggregator allows users to:

- Tail their application logs.
- Dump a recent set of application logs (where recent is on the order of an hour).
- Continually drain their application logs to 3rd party log archive and analysis services.

Loggregator Architecture



Libraries

Tests vs Specs

```
class TestMeme < Minitest::Test
                                                               describe Meme do
 def setup
                                                                 before do
  @meme = Meme.new
                                                                  @meme = Meme.new
                                                                 end
 end
 def test_that_kitty_can_eat
                                                                 describe "when asked about cheeseburgers" do
  assert_equal "OHAI!", @meme.i_can_has_cheezburger?
                                                                  it "must respond positively" do
                                                                   @meme.i can has cheezburger?.must equal "OHAI!"
 end
                                                                  end
 def test_that_it_will_not_blend
                                                                 end
  refute match /^no/i, @meme.will it blend?
                                                                 describe "when asked about blending possibilities" do
 end
                                                                  it "won't say no" do
                                                                   @meme.will_it_blend?.wont_match /^no/i
 def test_that_will_be_skipped
  skip "test this later"
                                                                  end
 end
                                                                 end
end
                                                               end
```

Go testing libraries

testing testify gocheck prettytest go-spec gospec mao zen

Licences

testing

testify

gocheck

prettytest

go-spec

gospec

mao

zen

BSD

MIT

BSD

MIT

BSD

Apache

MIT

Apache

Matchers

Name	Testing	testify	gocheck	prettytest	go-spec	gospec	mao/zen
License	BSD	MIT	BSD	MIT	BSD	Apache	MIT/Apache
Assertions				uses gocheck			
Style	make your own	assert	spec	spec	spec	spec	spec
Equal		✓	✓	✓	✓	✓	✓
IsSame						✓	
DeepEqual			✓	✓			
True		✓				✓	
False		✓				✓	
Nil		✓	✓	✓		✓	✓
Empty		✓					
Error		✓	✓	✓	✓		
Implements		✓	✓	✓			
IsType		✓	✓	✓			
StringContains		✓					
StringMatches			✓	✓			
Collection						✓	
Panics		✓	✓	✓	✓		
HasLen			1	✓			
Matches			✓	✓			
Satisfy					1	✓	
Within						✓	

Sample tests

https://github.com/shageman/gotestit

testing testify gocheck prettytest go-spec gospec mao zen

really basic, direct use tedious

testing testify gocheck prettytest go-spec gospec mao zen

really basic, direct use tedious lots of useful assertions

testing testify gocheck prettytest go-spec gospec mao zen

really basic, direct use tedious lots of useful assertions suites, before, after, lots of assertions

testing really basic, direct use tedious

testify lots of useful assertions

gocheck suites, before, after, lots of assertions

prettytest suites, pretty

go-spec

gospec

mao

zen

gospec

mao

zen

testing really basic, direct use tedious
testify lots of useful assertions
gocheck suites, before, after, lots of assertions
prettytest suites, pretty
go-spec doesn't work

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prettytest suites, pretty

go-spec doesn't work

gospec Describe, expect, have to state all tests

mao

zen

testing really basic, direct use tedious

testify lots of useful assertions

gocheck suites, before, after, lots of assertions

prettytest suites, pretty

go-spec doesn't work

gospec Describe, expect, have to state all tests

mao -

zen desc, it, expect, basic assertions

mao

testing really basic, direct use tedious
testify lots of useful assertions
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prettytest suites, pretty
go-spec doesn't work
gospec Describe, expect, have to state all tests

zen desc, it, expect, basic assertions

Thanks!

travis

go test -- race

shared state

parallel