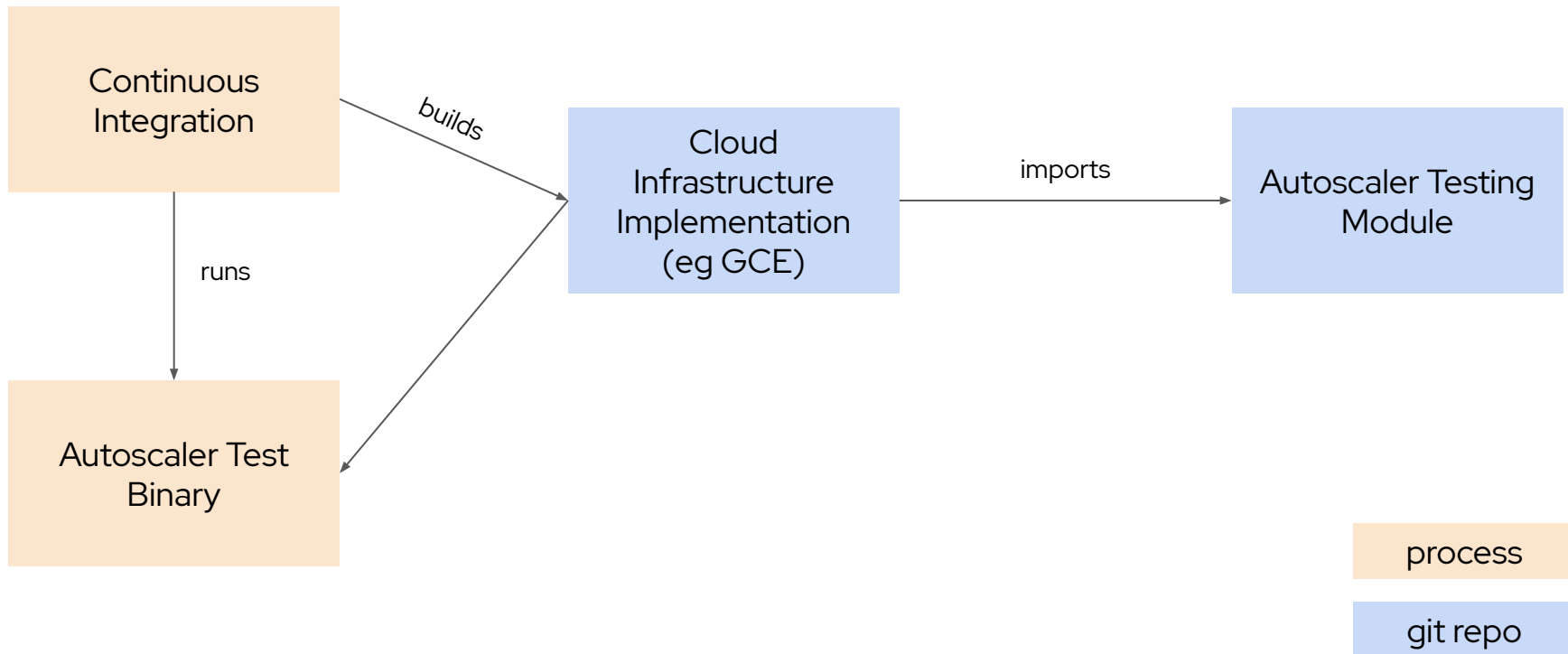Example Repository Overview

- **Autoscaler Testing Module Repo**
  - Ginkgo-based test code
    - Single entry point to start testing
  - Cloud Infrastructure Interface
    - Setup and Teardown
    - Test-specific functionality
- **Cloud Infrastructure Implementation Repo**
  - Concrete implementation of Cloud Infrastructure Interface
    - eg GCE, GKE, etc
  - Initiates tests through Autoscaler Testing module entry point

Example Repository Relationships

Continuous Integration —builds→ Cloud Infrastructure Implementation (eg GCE)

Continuous Integration —runs→ Autoscaler Test Binary

Autoscaler Test Binary → Cloud Infrastructure Implementation (eg GCE)

Cloud Infrastructure Implementation (eg GCE) —imports→ Autoscaler Testing Module

Legend:
- process
- git repo

Example Cloud Infrastructure Interface Methods

```go
func (p *Provider) FrameworkBeforeEach(f *test.Framework) {...}

func (p *Provider) FrameworkAfterEach(f *test.Framework) {...}

func (p *Provider) ResizeGroup(group string, size int32) error {...}

func (p *Provider) GroupSize(group string) (int, error) {...}

func (p *Provider) EnableAutoscaler(nodeGroup string, minSize int, maxSize int) error {...}

func (p *Provider) DisableAutoscaler(nodeGroup string) error {...}
```

Example Test Invocation

```go
package autoscaler

import (
    "testing"

    "github.com/benmoss/autoscaler-tests/test"
)

func TestAutoscaling(t *testing.T) {
    test.ClusterAutoscalerSuite(t, &Provider{})
}
```