test/e2e

This is home to e2e tests used for presubmit, periodic, and postsubmit jobs.

Some of these jobs are merge-blocking, some are release-blocking.

e2e test ownership

All e2e tests must adhere to the following policies:

- the test must be owned by one and only one SIG
- the test must live in/underneath a sig-owned package matching pattern: test/e2e/[{subpath}/] {sig}/..., e.g.

```
• test/e2e/auth - all tests owned by sig- auth
```

- test/e2e/common/storage all tests common to cluster-level and node-level e2e tests,
 owned by sig- node
- test/e2e/upgrade/apps all tests used in upgrade testing, owned by sig- apps
- each sig-owned package should have an OWNERS file defining relevant approvers and labels for the owning sig, e.g.

```
# test/e2e/node/OWNERS
# See the OWNERS docs at https://go.k8s.io/owners

approvers:
    alice
    bob
    cynthia
    emeritus_approvers:
    dave
    reviewers:
    sig-node-reviewers
labels:
    sig/node
```

• packages that use {subpath} should have an imports.go file importing sig-owned packages (for ginkgo's benefit), e.g.

```
// test/e2e/common/imports.go
package common

import (
    // ensure these packages are scanned by ginkgo for e2e tests
    _ "k8s.io/kubernetes/test/e2e/common/network"
    _ "k8s.io/kubernetes/test/e2e/common/node"
    _ "k8s.io/kubernetes/test/e2e/common/storage"
)
```

• test ownership must be declared via a top-level SIGDescribe call defined in the sig-owned package, e.g.

```
// test/e2e/lifecycle/framework.go
package lifecycle
import "github.com/onsi/ginkgo"

// SIGDescribe annotates the test with the SIG label.
func SIGDescribe(text string, body func()) bool {
    return ginkgo.Describe("[sig-cluster-lifecycle] "+text, body)
}
```

```
// test/e2e/lifecycle/bootstrap/bootstrap_signer.go

package bootstrap

import (
    "github.com/onsi/ginkgo"
    "k8s.io/kubernetes/test/e2e/lifecycle"
)

var _ = lifecycle.SIGDescribe("[Feature:BootstrapTokens]", func() {
    /* ... */
    ginkgo.It("should sign the new added bootstrap tokens", func() {
        /* ... */
    })
    /* etc */
})
```

These polices are enforced:

- via the merge-blocking presubmit job pull-kubernetes-verify
- which ends up running hack/verify-e2e-test-ownership.sh
- which can also be run via make verify WHAT=e2e-test-ownership

more info

See <u>kubernetes/community/.../e2e-tests.md</u>