

## End to End Tests on a Kubernetes Cluster (S14)

### End to End Tests

- Manual:
  - Kubectl get nodes
  - Kubectl get pods -n all-namespaces
  - Service .... Status
  - Kubectl run nginx
  - Kubectl scale
  - Kubectl expose ...
- Test suite: <https://github.com/kubernetes/test-infra>
  - Around 1000 tests spread across 7 different areas (takes ~ 12 hours)
  - Creates namespace → creates object → executes curl on object → records result → cleanup
  - Also good to build and test own kubernetes based solution (needs to pass conformance tests)
- Sonobouy is another tool

### End to End Tests – Run and Analyze

- go get -u k8s.io/test-infra/kubetest
- kubetest --extract=<kubernetes-version>
- cd kubernetes
- kubetest --test --provider=<provider> <outfile>
  - skeleton as local provider
  - -- test\_args to focus on a specific area

### Smoke tests

- Demo for cluster installed in S10

### Ent to End test part 1

- Demo for cluster installed in S10