

Selenium Hub on Kubernetes

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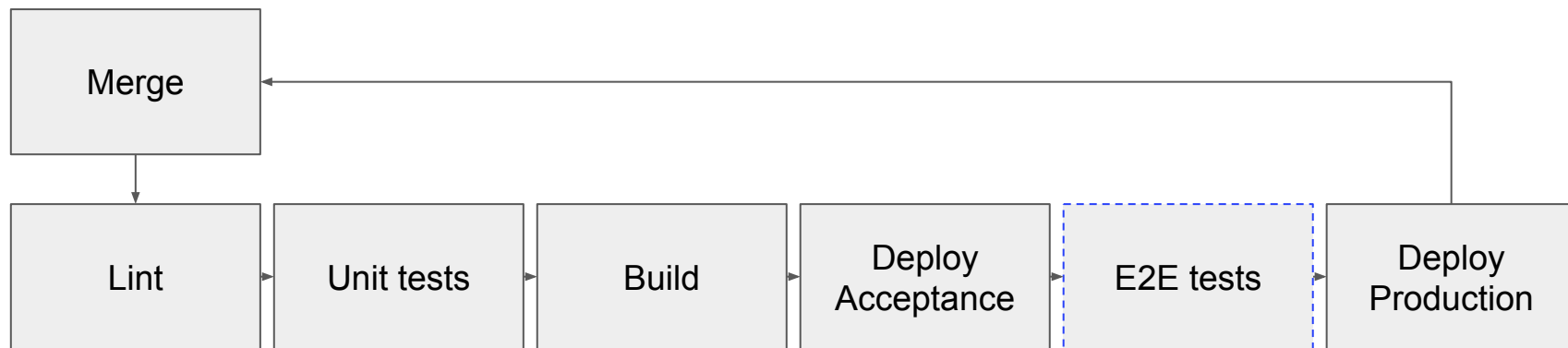
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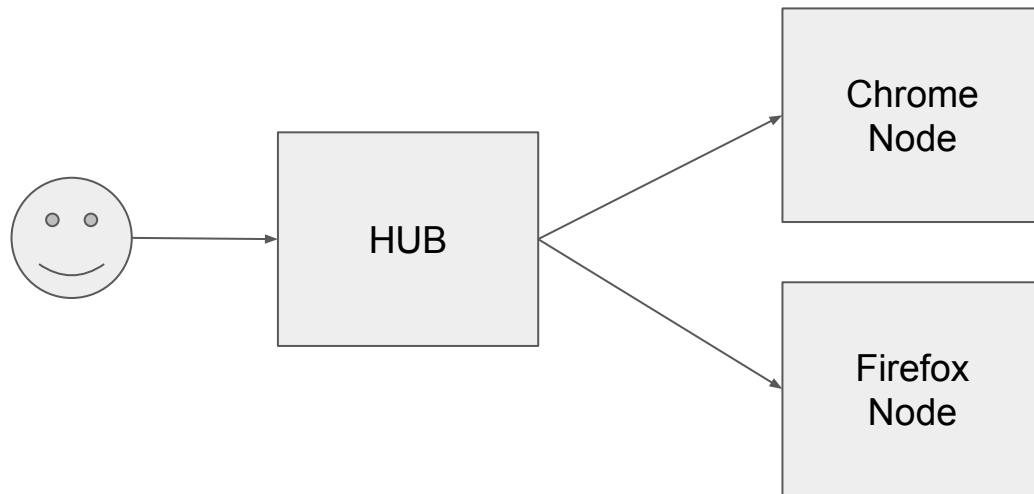
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E2E in CI/CD pipeline



Selenium Hub overview



Install

Simple install

```
$ helm upgrade -i selenium stable/selenium
```

Custom version

```
$ helm upgrade -i selenium \  
  --set chrome.enabled=true \  
  --set chrome.tag=3.7.1 \  
  --set firefox.enabled=true \  
  stable/selenium
```

Debug

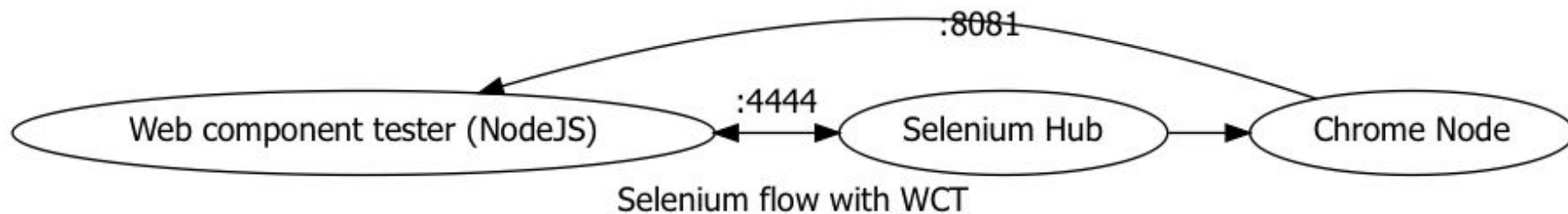
Debug:

```
$ helm upgrade -i selenium \  
  --set chromeDebug.enabled=true \  
  --set firefoxDebug.enabled=true \  
  stable/selenium
```

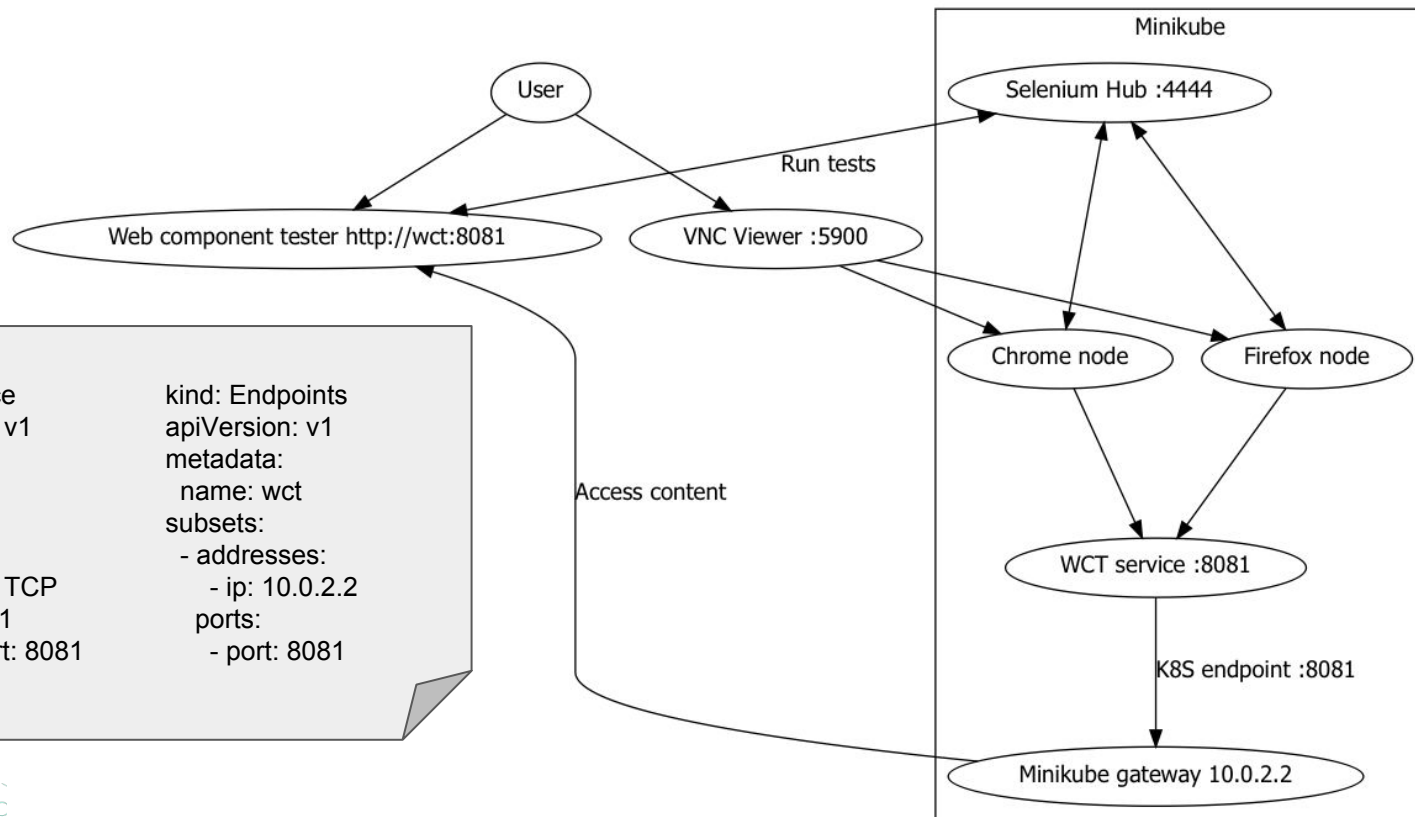
Port-forward, connect to client using VNC on localhost:5900 :

```
$ kubectl port-forward $(kubectl get pods \  
  -l app=selenium-selenium-chrome-debug \  
  -o jsonpath='{ .items[0].metadata.name }') 5900
```

SeleniumHub overview



SeleniumHub on Minikube



To conclude

- Only Chrome and Firefox with fixed version
- Session hangs, mostly on Firefox
- Session doesn't get killed correctly causing nodes to be unavailable
- Flaky tests, need to implement retry mechanism
- Need to implement your own autoscaler based on the hub queue

Fully managed solutions:

- BrowserStack
- SauceLab
- Xamarin?