Deploying REANA on SSL-RIVER

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REANA on the SSL
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RIVER, part of the Scalable Systems Lab

- Scalable Systems Lab allows users to deploy novel services, analysis frameworks, data transformers, batch workloads, etc.
- Users can experiment, incubate software ideas, scale workloads to thousands of cores, package code to run on production resources
- RIVER: First piece of substrate
  - 70 nodes, each with 48 cores, 256GB RAM, 2x800GB SSD, 10Gbps network connections
  - 2x40Gbps to ScienceDMZ, Kubernetes v1.16

Able to get deployment going on RIVER

- Started from Helm chart (https://github.com/reanahub/reana/tree/master/helm/reana)
- Some changes likely won't cause problems
  - Switched to REANA-specific namespace, changed cluster roles (cross-namespace) to roles (namespace-specific)
  - Disabled Traefik component (already available on RIVER)
  - Assigned URL to ingress controller
  - Updated tags for images in chart (not sure the defaults correspond to existing tags…?)
- But needed some surgery to make REANA RBAC match policies on RIVER
  - Rewrote most of the role permissions to match API groups and resources available on RIVER
  - Will REANA still work for analyzers?

RIVER now ostensibly running REANA

- As a start, need to test things (good tests? RECAST demo?)
  - Gave it a first pass, but having trouble creating the workflow from the instructions

```
NAME                                      READY   STATUS    RESTARTS   AGE
reana-cache-88b76b854-zb9sj               1/1     Running   0          2d7h
reana-db-5f45666d85-bn49v                 1/1     Running   0          2d7h
reana-message-broker-775fbb94fd-zxg7r     1/1     Running   0          2d7h
reana-server-6856778564-7sqn2             2/2     Running   0          2d7h
reana-workflow-controller-76c5cc4457-jp6qz   2/2     Running   0          2d7h
```