

## openQA Tests - action #94829

action # 94090 (New): [qe-core][qac][study] End-to-end combination test scenarios

### [qe-core] Web/app serving end-to-end scenario

2021-06-29 06:15 - tjyrinki\_suse

<b>Status:</b> New	<b>Start date:</b>
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b> Spike/Research	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b>	
<b>Difficulty:</b>	

**Description**

A test case for a theoretical app server running inside a Kubernetes cluster, serving clients.

Ideas/examples about possible implementation details:

- Rancher K3S for the server <https://rancher.com/docs/rancher/v2.5/en/installation/resources/k8s-tutorials/ha-with-external-db/>
- NodeJS 14 LTS serving either http directly or from behind nginx proxy
  - From SLE repositories where available, or <https://nodejs.org/en/download/package-manager/#opensuse-and-sle>
- For client, one could use something like minimal containers running multiple (tens of?) httpperf in a local network. If SUSE containers not minimal enough, maybe for example docker alpine:3.13.5. One can balance between the number of containers and number of threads within.

Try not to overlap eg with what QE Performance is testing, see eg "database/http traffic" tests and others.

**Acceptance Criteria**

- Runs a simple https server (self-signed certificate) inside a single node Kubernetes
- Each client connecting to it uses https (ignoring self-signed certificate)
- The clients altogether doing at least hundreds of requests per second.
- Runs for minimum 1 hour
- Runs on at minimum 15-SP2, 15-SP3, Tumbleweed, Leap 15.3 and SLE12 if possible without extra effort

#### History

#1 - 2021-06-29 06:16 - tjyrinki\_suse

- Category set to Spike/Research