Kubernetes metrics report

Auto generated

17 October, 2019

Introduction

This report compares the metrics between multiple sets of data generated from the cloud-native-setup report generation scripts.

This report was generated using the data from the **scaling/** results directories.

Runtime scaling

This test measures the system memory 'free' reduction, CPU idle % and pod boot time as it launches more and more idle `busybox` pods on a single node Kubernetes cluster.

> Note: CPU % is measured as a system whole - 100% represents *all* CPUs on the node.

```
## Error in do.call("rbind", br$launched_pods): second argument must be a list
```

Runtime parallel scaling

This test measures the time taken to launch and delete pods in parallel using a deployment. The times are how long it takes for the whole deployment operation to complete.

```
## Error in FUN(X[[i]], ...): object 'npod' not found
```

Test setup details

This table describes the test system details, as derived from the information contained in the test results files.

What	scaling
Client Ver	v1.16.1
Server Ver	v1.15.4
No. nodes	1
− Node0 name	clr−30f01b5149ba4ab8b05a7ee03b6812a
Have Kata	true
CPUs	4
Memory	32831928Ki
MaxPods	110
PodCIDR	10.244.0.0/24
runtime	containerd://1.3.0
kernel	5.3.5−847.native
kubeProxy	v1.15.3
Kubelet	v1.15.3
OS	Clear Linux OS

Figure 1: System configuration details