

Performance Results

Task	Latency (in seconds)
Device Registration Latency (Gateway)	0.016533
Request Processing Latency (Gateway)	0.011805
Device Registration/Writing Latency (Backend)	0.004007
Device Reading Latency (Backend)	0.000256
Event Registration/Writing Latency (Backend)	0.003705
Event Reading Latency (Backend)	0.000315

Latency for different tasks

```
2017-04-03 02:02:12,383 - INFO - Pushed state to server
2017-04-03 02:02:12,388 - INFO - [0, 0, 0, 1, 0]
2017-04-03 02:02:12,398 - INFO - [0, 1, 0, 0, 0]
Request processing latency: 0:00:00.017941
2017-04-03 02:02:12,403 - INFO - [0, 2, 0, 0, 0]
2017-04-03 02:02:12,410 - INFO - [0, 3, 0, 0, 0]
2017-04-03 02:02:13,451 - INFO - Pushed state to server
2017-04-03 02:02:13,456 - INFO - [0, 3, 0, 2, 0]
2017-04-03 02:02:13,458 - INFO - [0, 4, 0, 1, 0]
Request processing latency: 0:00:00.010385
2017-04-03 02:02:13,785 - INFO - Pushed state to server
2017-04-03 02:02:13,790 - INFO - [0, 4, 0, 3, 0]
2017-04-03 02:02:13,792 - INFO - [0, 5, 0, 2, 0]
Request processing latency: 0:00:00.009556
2017-04-03 02:02:13,967 - INFO - Pushed state to server
2017-04-03 02:02:13,972 - INFO - [0, 5, 0, 4, 0]
2017-04-03 02:02:13,974 - INFO - [0, 6, 0, 3, 0]
Request processing latency: 0:00:00.009789
2017-04-03 02:02:16,955 - INFO - Pushed state to server
```

Gateway Request Processing

```
2017-04-03 01:54:53,169 - INFO - Initializing database
2017-04-03 01:54:55,597 - INFO - Stored device data
Backend Device Registration Latency: 0:00:00.001991
2017-04-03 01:54:55,600 - INFO - Stored device data
Backend Device Registration Latency: 0:00:00.001493
2017-04-03 01:56:51,771 - INFO - Stored device data
Backend Device Registration Latency: 0:00:00.013082
2017-04-03 01:56:56,762 - INFO - Stored device data
Backend Device Registration Latency: 0:00:00.001735
2017-04-03 02:00:55,494 - INFO - Stored device data
Backend Device Registration Latency: 0:00:00.001738
Backend Device Reading Latency: 0:00:00.000256
2017-04-03 02:00:55,545 - INFO - started vector clock
```

Backend Device Reading/Writing

```
Backend Event Registration Latency: 0:00:00.003346
2017-04-03 02:02:21,974 - INFO - Stored event data
2017-04-03 02:02:21,985 - INFO - Stored event data
Backend Event Registration Latency: 0:00:00.004731
2017-04-03 02:02:21,992 - INFO - Stored event data
2017-04-03 02:02:22,004 - INFO - Stored event data
Backend Event Registration Latency: 0:00:00.006777
2017-04-03 02:02:25,428 - INFO - Stored event data
Backend Event Registration Latency: 0:00:00.003152
2017-04-03 02:02:29,440 - INFO - Stored event data
Backend Event Registration Latency: 0:00:00.003200
2017-04-03 02:02:38,449 - INFO - Stored event data
Backend Event Registration Latency: 0:00:00.003275
2017-04-03 02:02:46,469 - INFO - Stored event data
Backend Event Registration Latency: 0:00:00.003158
2017-04-03 02:02:51,474 - INFO - Stored event data
Backend Event Registration Latency: 0:00:00.003155
2017-04-03 02:03:03,497 - INFO - Stored event data
Backend Event Registration Latency: 0:00:00.003279
2017-04-03 02:03:04,498 - INFO - Stored event data
Backend Event Registration Latency: 0:00:00.002983
```

Backend Event Writing

```
Backend Event Reading Latency: 0:00:00.000392
Backend Event Reading Latency: 0:00:00.000133
2017-04-03 02:02:21,968 - INFO - Stored event data
```

Backend Event Reading

```
Register Latency: 2017-04-03 02:25:14,769 - INFO - Processing register request...
0:00:00.001741
2017-04-03 02:25:14,773 - INFO - added device to db...
2017-04-03 02:25:19,889 - INFO - Processing register request...
Register Latency: 0:00:00.031936
2017-04-03 02:25:19,921 - INFO - added device to db...
2017-04-03 02:25:48,480 - INFO - Processing register request...
Register Latency: 0:00:00.015924
2017-04-03 02:25:48,488 - INFO - added device to db...
2017-04-03 02:25:48,530 - INFO - started vector clock
```

Gateway Device Registration