

Project: Deploying ELK Stack on Docker Container.

Source Code:

Elastic Search Check-

```
{  
  "status" : 200,  
  "name" : "Harry Leland",  
  "cluster_name" : "elasticsearch",  
  "version" : {  
    "number" : "1.7.2",  
    "build_hash" : "e43676b1385b8125d647f593f7202acbd816e8ec",  
    "build_timestamp" : "2015-09-14T09:49:53Z",  
    "build_snapshot" : false,  
    "lucene_version" : "4.10.4"  
  },  
  "tagline" : "You Know, for Search"  
}
```

Node Cluster Info-

```
{  
  "name": "Harry Leland",  
  "transport_address": "inet[/172.31.82.162:9300]",  
  "host": "ip-172-31-82-162.ec2.internal",  
  "ip": "172.31.82.162",  
  "version": "1.7.2",  
  "build": "e43676b",  
  "http_address": "inet[/172.31.82.162:9200]",  
  "settings": {  
    "pidfile": "/var/run/elasticsearch/elasticsearch.pid",  
    "path": {
```

```
"conf": "/etc/elasticsearch",
"data": "/var/lib/elasticsearch",
"logs": "/var/log/elasticsearch",
"home": "/usr/share/elasticsearch"
},
"cluster": {
"name": "elasticsearch"
},
"name": "Harry Leland",
"client": {
"type": "node"
},
"foreground": "yes",
"config.ignore_system_properties": "true",
"config": "/etc/elasticsearch/elasticsearch.yml"
},
"os": {
"refresh_interval_in_millis": 1000,
"available_processors": 1,
"cpu": {
"vendor": "Intel",
"model": "Xeon",
"mhz": 2399,
"total_cores": 1,
"total_sockets": 1,
"cores_per_socket": 1,
"cache_size_in_bytes": 30720
},
"mem": {
```

```
"total_in_bytes": 1012666368
},
"swap": {
  "total_in_bytes": 0
},
"process": {
  "refresh_interval_in_millis": 1000,
  "id": 5729,
  "max_file_descriptors": 65535,
  "mlockall": false
},
"jvm": {
  "pid": 5729,
  "version": "1.8.0_342",
  "vm_name": "OpenJDK 64-Bit Server VM",
  "vm_version": "25.342-b07",
  "vm_vendor": "Red Hat, Inc.",
  "start_time_in_millis": 1665404527266,
  "mem": {
    "heap_init_in_bytes": 268435456,
    "heap_max_in_bytes": 1065025536,
    "non_heap_init_in_bytes": 2555904,
    "non_heap_max_in_bytes": 0,
    "direct_max_in_bytes": 1065025536
  },
  "gc_collectors": [
    "ParNew"
  ],
  ,
```

```
"ConcurrentMarkSweep"
],
"memory_pools": [
"Code Cache"
,
"Metaspace"
,
"Compressed Class Space"
,
"Par Eden Space"
,
"Par Survivor Space"
,
"CMS Old Gen"
]
},
"thread_pool": {
"percolate": {
"type": "fixed",
"min": 1,
"max": 1,
"queue_size": "1k"
},
"fetch_shard_started": {
"type": "scaling",
"min": 1,
"max": 2,
"keep_alive": "5m",
"queue_size": -1
```

```
},  
"listener": {  
  "type": "fixed",  
  "min": 1,  
  "max": 1,  
  "queue_size": -1  
},  
"index": {  
  "type": "fixed",  
  "min": 1,  
  "max": 1,  
  "queue_size": "200"  
},  
"refresh": {  
  "type": "scaling",  
  "min": 1,  
  "max": 1,  
  "keep_alive": "5m",  
  "queue_size": -1  
},  
"suggest": {  
  "type": "fixed",  
  "min": 1,  
  "max": 1,  
  "queue_size": "1k"  
},  
"generic": {  
  "type": "cached",  
  "keep_alive": "30s",
```

```
"queue_size": -1
},
"warmer": {
  "type": "scaling",
  "min": 1,
  "max": 1,
  "keep_alive": "5m",
  "queue_size": -1
},
"search": {
  "type": "fixed",
  "min": 2,
  "max": 2,
  "queue_size": "1k"
},
"flush": {
  "type": "scaling",
  "min": 1,
  "max": 1,
  "keep_alive": "5m",
  "queue_size": -1
},
"optimize": {
  "type": "fixed",
  "min": 1,
  "max": 1,
  "queue_size": -1
},
"fetch_shard_store": {
```

```
"type": "scaling",
"min": 1,
"max": 2,
"keep_alive": "5m",
"queue_size": -1
},
"management": {
"type": "scaling",
"min": 1,
"max": 5,
"keep_alive": "5m",
"queue_size": -1
},
"get": {
"type": "fixed",
"min": 1,
"max": 1,
"queue_size": "1k"
},
"merge": {
"type": "scaling",
"min": 1,
"max": 1,
"keep_alive": "5m",
"queue_size": -1
},
"bulk": {
"type": "fixed",
"min": 1,
```

```
"max": 1,
"queue_size": "50"
},
"snapshot": {
  "type": "scaling",
  "min": 1,
  "max": 1,
  "keep_alive": "5m",
  "queue_size": -1
}
},
"network": {
  "refresh_interval_in_millis": 5000,
  "primary_interface": {
    "address": "172.31.82.162",
    "name": "eth0",
    "mac_address": "12:79:50:71:61:29"
  }
},
"transport": {
  "bound_address": "inet[/0:0:0:0:0:0:0:9300]",
  "publish_address": "inet[/172.31.82.162:9300]",
  "profiles": { }
},
"http": {
  "bound_address": "inet[/0:0:0:0:0:0:0:9200]",
  "publish_address": "inet[/172.31.82.162:9200]",
  "max_content_length_in_bytes": 104857600
},
```



```
"plugins": [  
  {  
    "name": "head",  
    "version": "NA",  
    "description": "No description found.",  
    "url": "/_plugin/head/",  
    "jvm": false,  
    "site": true  
  },  
  {  
    "name": "bigdesk",  
    "version": "NA",  
    "description": "No description found.",  
    "url": "/_plugin/bigdesk/",  
    "jvm": false,  
    "site": true  
  }  
]
```

Node stats-

```
{  
  "timestamp": 1665406322308,  
  "name": "Harry Leland",  
  "transport_address": "inet[/172.31.82.162:9300]",  
  "host": "ip-172-31-82-162.ec2.internal",  
  "ip": [  
    "inet[/172.31.82.162:9300]"
```

```
,
"NONE"
],
"indices": {
  "docs": {
    "count": 0,
    "deleted": 0
  },
  "store": {
    "size_in_bytes": 0,
    "throttle_time_in_millis": 0
  },
  "indexing": {
    "index_total": 0,
    "index_time_in_millis": 0,
    "index_current": 0,
    "delete_total": 0,
    "delete_time_in_millis": 0,
    "delete_current": 0,
    "noop_update_total": 0,
    "is_throttled": false,
    "throttle_time_in_millis": 0
  },
  "get": {
    "total": 0,
    "time_in_millis": 0,
    "exists_total": 0,
    "exists_time_in_millis": 0,
    "missing_total": 0,
```

```
"missing_time_in_millis": 0,
"current": 0
},
"search": {
  "open_contexts": 0,
  "query_total": 0,
  "query_time_in_millis": 0,
  "query_current": 0,
  "fetch_total": 0,
  "fetch_time_in_millis": 0,
  "fetch_current": 0
},
"merges": {
  "current": 0,
  "current_docs": 0,
  "current_size_in_bytes": 0,
  "total": 0,
  "total_time_in_millis": 0,
  "total_docs": 0,
  "total_size_in_bytes": 0
},
"refresh": {
  "total": 0,
  "total_time_in_millis": 0
},
"flush": {
  "total": 0,
  "total_time_in_millis": 0
},
```

```
"warmer": {
  "current": 0,
  "total": 0,
  "total_time_in_millis": 0
},
"filter_cache": {
  "memory_size_in_bytes": 0,
  "evictions": 0
},
"id_cache": {
  "memory_size_in_bytes": 0
},
"fielddata": {
  "memory_size_in_bytes": 0,
  "evictions": 0
},
"percolate": {
  "total": 0,
  "time_in_millis": 0,
  "current": 0,
  "memory_size_in_bytes": -1,
  "memory_size": "-1b",
  "queries": 0
},
"completion": {
  "size_in_bytes": 0
},
"segments": {
  "count": 0,
```

```
"memory_in_bytes": 0,
"index_writer_memory_in_bytes": 0,
"index_writer_max_memory_in_bytes": 0,
"version_map_memory_in_bytes": 0,
"fixed_bit_set_memory_in_bytes": 0
},
"translog": {
"operations": 0,
"size_in_bytes": 0
},
"suggest": {
"total": 0,
"time_in_millis": 0,
"current": 0
},
"query_cache": {
"memory_size_in_bytes": 0,
"evictions": 0,
"hit_count": 0,
"miss_count": 0
},
"recovery": {
"current_as_source": 0,
"current_as_target": 0,
"throttle_time_in_millis": 0
}
},
"os": {
"timestamp": 1665406322087,
```

```
"uptime_in_millis": 2216,  
"load_average": [  
  0  
,  
  0  
,  
  0  
,  
],  
"cpu": {  
  "sys": 0,  
  "user": 0,  
  "idle": 99,  
  "usage": 0,  
  "stolen": 0  
},  
"mem": {  
  "free_in_bytes": 77430784,  
  "used_in_bytes": 935235584,  
  "free_percent": 58,  
  "used_percent": 41,  
  "actual_free_in_bytes": 589975552,  
  "actual_used_in_bytes": 422690816  
},  
"swap": {  
  "used_in_bytes": 0,  
  "free_in_bytes": 0  
}  
},  
"process": {
```

```
"timestamp": 1665406322088,
"open_file_descriptors": 105,
"cpu": {
  "percent": 0,
  "sys_in_millis": 630,
  "user_in_millis": 11720,
  "total_in_millis": 12350
},
"mem": {
  "resident_in_bytes": 247959552,
  "share_in_bytes": 19894272,
  "total_virtual_in_bytes": 3160223744
},
"jvm": {
  "timestamp": 1665406322088,
  "uptime_in_millis": 1794866,
  "mem": {
    "heap_used_in_bytes": 79959656,
    "heap_used_percent": 7,
    "heap_committed_in_bytes": 259719168,
    "heap_max_in_bytes": 1065025536,
    "non_heap_used_in_bytes": 46422784,
    "non_heap_committed_in_bytes": 47243264,
    "pools": {
      "young": {
        "used_in_bytes": 53970296,
        "max_in_bytes": 69795840,
        "peak_used_in_bytes": 69795840,
```

```
"peak_max_in_bytes": 69795840
},
"survivor": {
  "used_in_bytes": 8716280,
  "max_in_bytes": 8716288,
  "peak_used_in_bytes": 8716280,
  "peak_max_in_bytes": 8716288
},
"old": {
  "used_in_bytes": 17273080,
  "max_in_bytes": 986513408,
  "peak_used_in_bytes": 17273080,
  "peak_max_in_bytes": 986513408
}
},
"threads": {
  "count": 26,
  "peak_count": 26
},
"gc": {
  "collectors": {
    "young": {
      "collection_count": 2,
      "collection_time_in_millis": 112
    },
    "old": {
      "collection_count": 1,
      "collection_time_in_millis": 52
    }
  }
}
```



```
}  
}  
},  
"buffer_pools": {  
  "direct": {  
    "count": 17,  
    "used_in_bytes": 4570616,  
    "total_capacity_in_bytes": 4570616  
  },  
  "mapped": {  
    "count": 0,  
    "used_in_bytes": 0,  
    "total_capacity_in_bytes": 0  
  }  
}  
},  
"thread_pool": {  
  "percolate": {  
    "threads": 0,  
    "queue": 0,  
    "active": 0,  
    "rejected": 0,  
    "largest": 0,  
    "completed": 0  
  },  
  "fetch_shard_started": {  
    "threads": 0,  
    "queue": 0,  
    "active": 0,
```

```
"rejected": 0,  
"largest": 0,  
"completed": 0  
},  
"listener": {  
"threads": 1,  
"queue": 0,  
"active": 0,  
"rejected": 0,  
"largest": 1,  
"completed": 771  
},  
"index": {  
"threads": 0,  
"queue": 0,  
"active": 0,  
"rejected": 0,  
"largest": 0,  
"completed": 0  
},  
"refresh": {  
"threads": 0,  
"queue": 0,  
"active": 0,  
"rejected": 0,  
"largest": 0,  
"completed": 0  
},  
"suggest": {
```

```
"threads": 0,  
"queue": 0,  
"active": 0,  
"rejected": 0,  
"largest": 0,  
"completed": 0  
},  
"generic": {  
"threads": 1,  
"queue": 0,  
"active": 0,  
"rejected": 0,  
"largest": 2,  
"completed": 188  
},  
"warmer": {  
"threads": 0,  
"queue": 0,  
"active": 0,  
"rejected": 0,  
"largest": 0,  
"completed": 0  
},  
"search": {  
"threads": 0,  
"queue": 0,  
"active": 0,  
"rejected": 0,  
"largest": 0,
```

```
"completed": 0
},
"flush": {
  "threads": 0,
  "queue": 0,
  "active": 0,
  "rejected": 0,
  "largest": 0,
  "completed": 0
},
"optimize": {
  "threads": 0,
  "queue": 0,
  "active": 0,
  "rejected": 0,
  "largest": 0,
  "completed": 0
},
"fetch_shard_store": {
  "threads": 0,
  "queue": 0,
  "active": 0,
  "rejected": 0,
  "largest": 0,
  "completed": 0
},
"management": {
  "threads": 2,
  "queue": 0,
```

```
"active": 1,  
"rejected": 0,  
"largest": 2,  
"completed": 455  
},  
"get": {  
  "threads": 0,  
  "queue": 0,  
  "active": 0,  
  "rejected": 0,  
  "largest": 0,  
  "completed": 0  
},  
"merge": {  
  "threads": 0,  
  "queue": 0,  
  "active": 0,  
  "rejected": 0,  
  "largest": 0,  
  "completed": 0  
},  
"bulk": {  
  "threads": 0,  
  "queue": 0,  
  "active": 0,  
  "rejected": 0,  
  "largest": 0,  
  "completed": 0  
},
```

```
"snapshot": {
  "threads": 0,
  "queue": 0,
  "active": 0,
  "rejected": 0,
  "largest": 0,
  "completed": 0
},
"network": {
  "tcp": {
    "active_opens": 149,
    "passive_opens": 336,
    "curr_estab": 35,
    "in_segs": 24561,
    "out_segs": 20760,
    "retrans_segs": 5,
    "estab_resets": 7,
    "attempt_fails": 0,
    "in_errs": 0,
    "out_rsts": 22
  },
  "fs": {
    "timestamp": 1665406322088,
    "total": {
      "total_in_bytes": 17167265792,
      "free_in_bytes": 15209512960,
      "available_in_bytes": 15209512960,
```

```
"disk_reads": 8101,
"disk_writes": 11741,
"disk_io_op": 19842,
"disk_read_size_in_bytes": 227481088,
"disk_write_size_in_bytes": 807566336,
"disk_io_size_in_bytes": 1035047424,
"disk_queue": "0",
"disk_service_time": "0"
},
"data": [
{
"path": "/var/lib/elasticsearch/elasticsearch/nodes/0",
"mount": "/",
"dev": "/dev/xvda1",
"type": "xfs",
"total_in_bytes": 17167265792,
"free_in_bytes": 15209512960,
"available_in_bytes": 15209512960,
"disk_reads": 8101,
"disk_writes": 11741,
"disk_io_op": 19842,
"disk_read_size_in_bytes": 227481088,
"disk_write_size_in_bytes": 807566336,
"disk_io_size_in_bytes": 1035047424,
"disk_queue": "0",
"disk_service_time": "0"
}
]
},
```

```
"transport": {
  "server_open": 13,
  "rx_count": 6,
  "rx_size_in_bytes": 1716,
  "tx_count": 6,
  "tx_size_in_bytes": 1716
},
"http": {
  "current_open": 7,
  "total_opened": 322
},
"breakers": {
  "fielddata": {
    "limit_size_in_bytes": 639015321,
    "limit_size": "609.4mb",
    "estimated_size_in_bytes": 0,
    "estimated_size": "0b",
    "overhead": 1.03,
    "tripped": 0
  },
  "request": {
    "limit_size_in_bytes": 426010214,
    "limit_size": "406.2mb",
    "estimated_size_in_bytes": 0,
    "estimated_size": "0b",
    "overhead": 1,
    "tripped": 0
  },
  "parent": {
```


"limit_size_in_bytes": 745517875,

"limit_size": "710.9mb",

"estimated_size_in_bytes": 0,

"estimated_size": "0b",

"overhead": 1,

"tripped": 0

}

}

}