DSC 650

Big Data

Week 9 Assignment

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Screenshot confirming successful access to the NiFi UI

Screenshot of the NiFi canvas showing the Processor Group.

Screenshot of the defined parameter within the Parameter Context

Add Parameter Context

| SETTINGS | PARAMETERS | INHERITANCE |

Name

My First NiFi Flow

Referencing Components ❓

Description

CANCEL   APPLY

My First NiFi Flow Configuration

| GENERAL | CONTROLLER SERVICES |

Process Group Name

My First NiFi Flow

Process Group Parameter Context

Create new parameter context... ⌄

Process Group FlowFile Concurrency

Unbounded ⌄

Process Group Outbound Policy

Stream When Available ⌄

Process Group Comments

Default FlowFile Expiration ❓
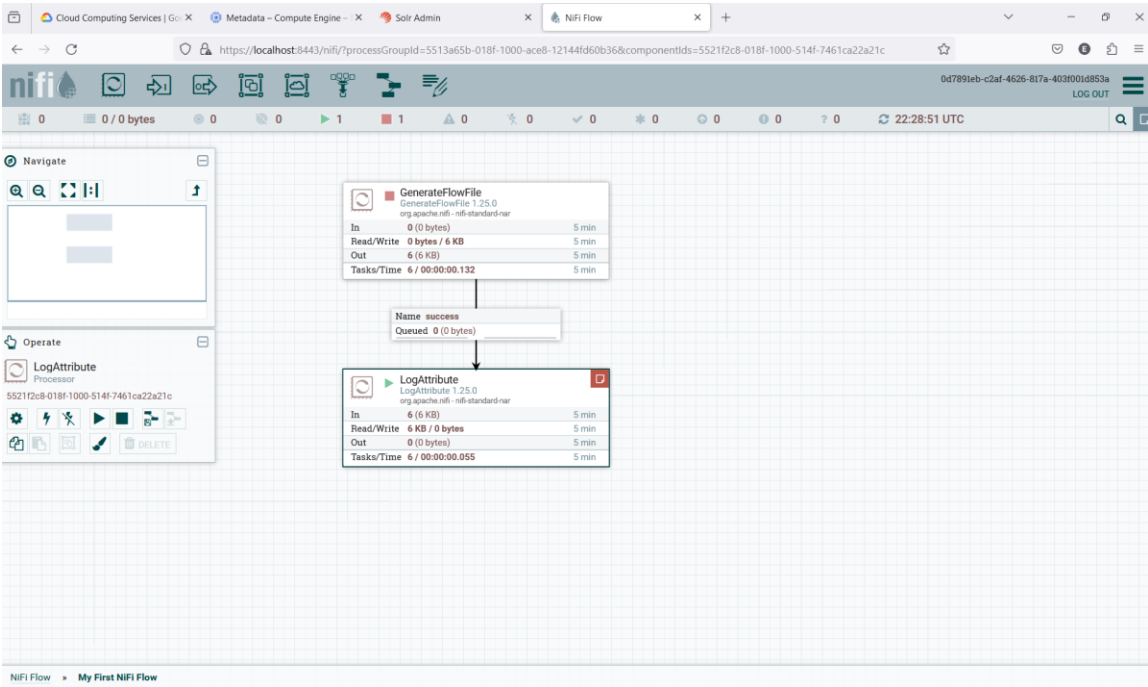
0 sec

Default Back Pressure Object Threshold ❓

10000

Default Back Pressure Data Size Threshold ❓
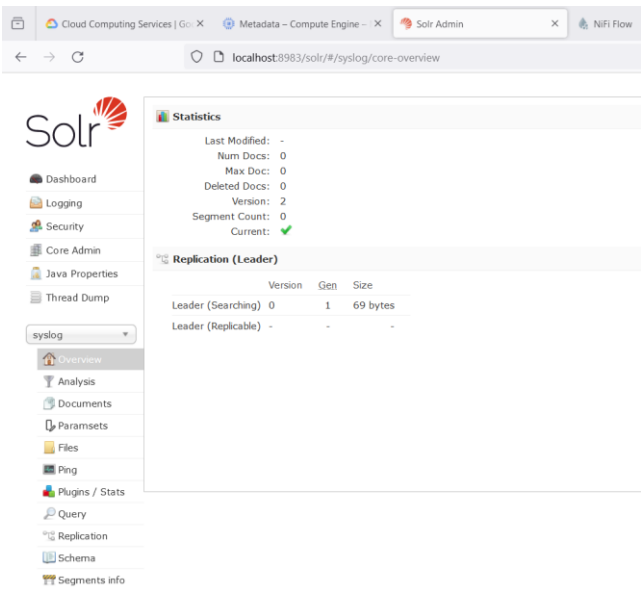
1 GB

Log File Suffix ❓

APPLY

⟳ Last updated: 22:06:45 UTC

Screenshot of the simple flow (GenerateFlowFile to LogAttribute).

Screenshot confirming the successful creation of the syslog collection

Screenshot of the advanced NiFi flow processing and sending data to Solr
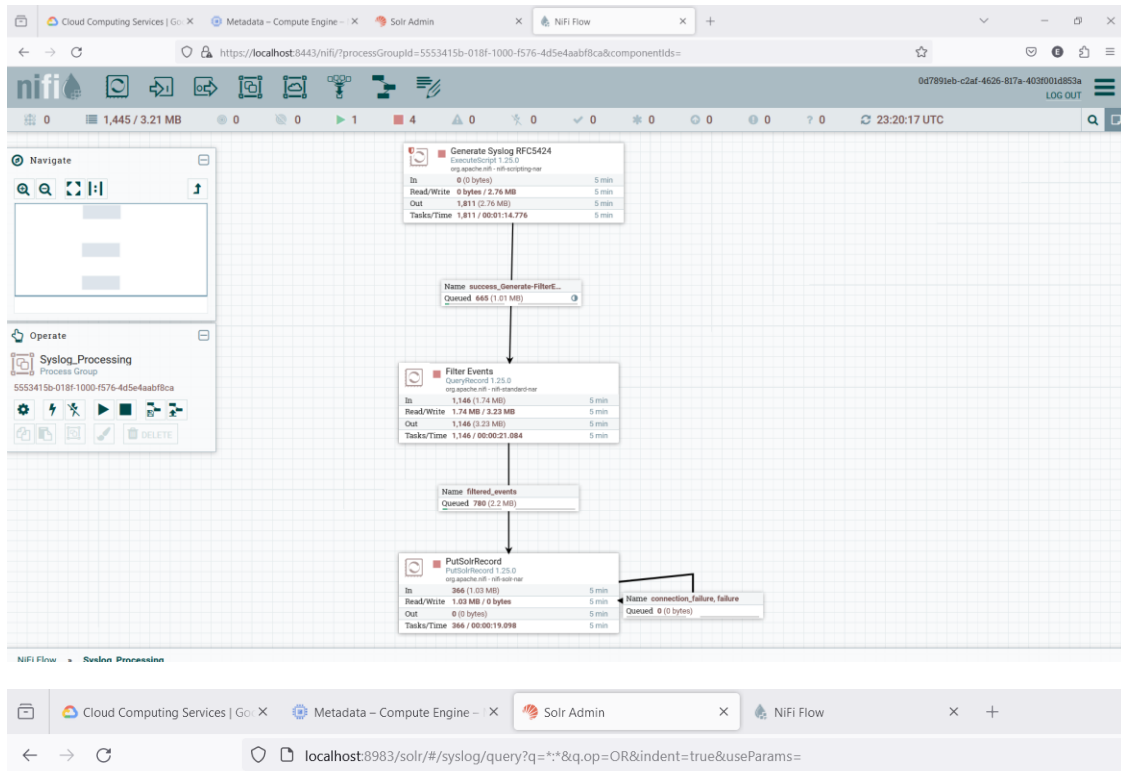
Screenshot of the Solr query results

Hostname = host4.example.com

Severity is lower than 2

Count number of applications by applicationID

localhost:8983/solr/#/syslog/query?q=*:*&q.op=OR&indent=true&facet=true&facet.field=appName&facet.sort=count&useParams=

http://localhost:8983/solr/syslog/select?facet.field=appName&facet.sort=count&facet=true&indent=true&q.op=OR&q=*%3A*&useParams=

{
  "responseHeader":{
    "status":0,
    "QTime":35,
    "params":{
      "q":"*:*",
      "facet.field":"appName",
      "indent":"true",
      "q.op":"OR",
      "facet":"true",
      "facet.sort":"count",
      "useParams":"",
      "_":"1715123398224"
    }
  },
  "response":{
    "numFound":3660,
    "start":0,
    "numFoundExact":true,
    "docs":[{
      "priority":[169],
      "severity":[1],
      "facility":[21],
      "version":[1],
      "timestamp":[1715123771572],
      "hostname":["host5.example.com"],
      "body":["application3 has exited cleanly"],
      "appName":["application3"],
      "procid":[6355],
      "messageid":["ID41"],
      "structuredData_SDID_eventId":[38],
      "structuredData_SDID_eventSource":["application"],
      "structuredData_SDID_iut":[1],
      "id":"db0540db-83c6-4279-a26d-0b4bfd3e9769",
      "_version_":1798437803698159616
    },{
      "priority":[61],
      "severity":[5]

localhost:8983/solr/#/syslog/query?q=*:*&q.op=OR&indent=true&facet=true&facet.field=appName&facet.sort=count&useParams=

      "version":[1],
      "timestamp":[1715123771623],
      "hostname":["host9.example.com"],
      "body":["application6 has stopped unexpectedly"],
      "appName":["application6"],
      "procid":[8151],
      "messageid":["ID48"],
      "structuredData_SDID_eventId":[83],
      "structuredData_SDID_eventSource":["python"],
      "structuredData_SDID_iut":[5],
      "id":"1f3fd933-6b53-43ab-8d0f-7a81b70b1de8",
      "_version_":1798437803869077504
    },{
      "priority":[151],
      "severity":[7],
      "facility":[18],
      "version":[1],
      "timestamp":[1715123771627],
      "hostname":["host1.example.com"],
      "body":["application9 has started successfully"],
      "appName":["application9"],
      "procid":[7126],
      "messageid":["ID32"],
      "structuredData_SDID_eventId":[97],
      "structuredData_SDID_eventSource":["application"],
      "structuredData_SDID_iut":[7],
      "id":"7864e15f-d855-41a7-9169-b4d402a4d76a",
      "_version_":1798437803877466112
    }]
  },
  "facet_counts":{
    "facet_queries":{ },
    "facet_fields":{
      "appName":["application3",386,"application5",383,"application1",375,"application7",374,"application2",373,"application10",366,"application9",364,"appli
    },
    "facet_ranges":{ },
    "facet_intervals":{ },
    "facet_heatmaps":{ }
  }
}