

Week 9

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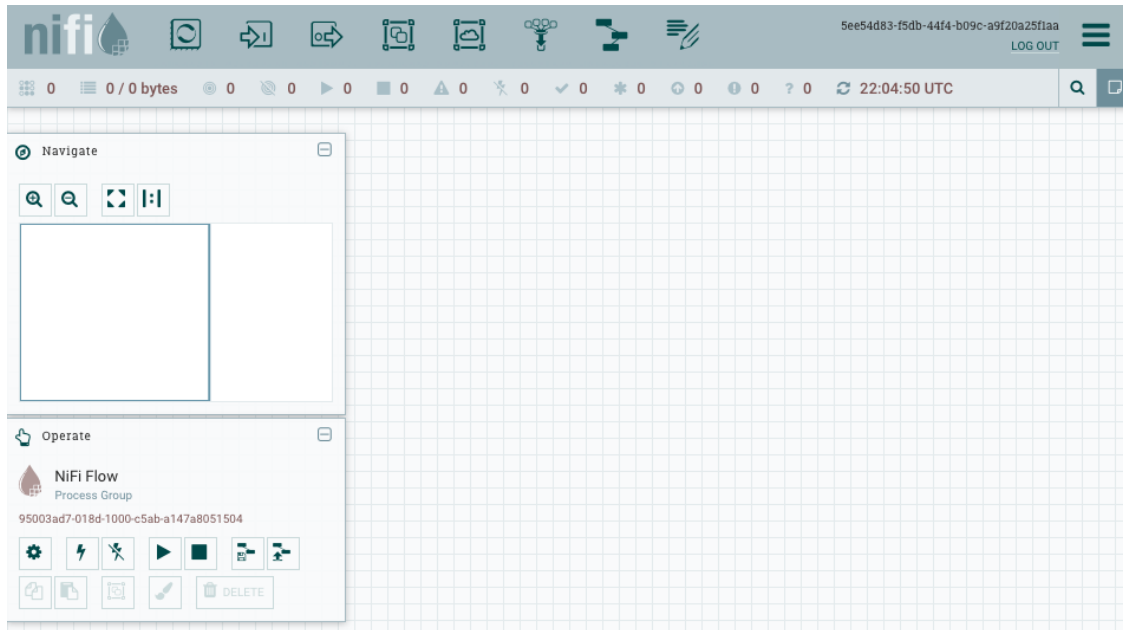
Bellevue University

DSC 650 Big Data

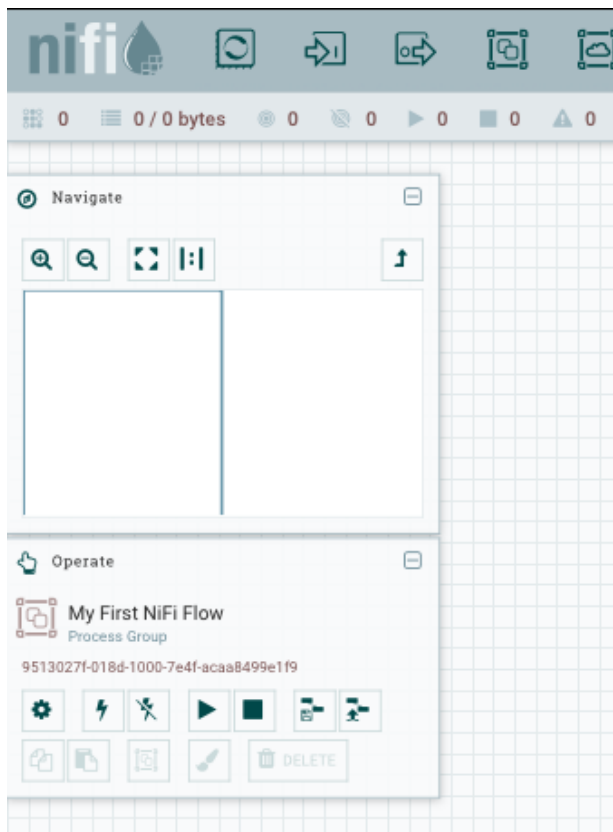
Professor Nasheb Ismaily

February 10, 2024

1. Environment Initialization



2. Creating a Processor Group



3. Designing a Simple Flow



4. Setting up a Solr Collection

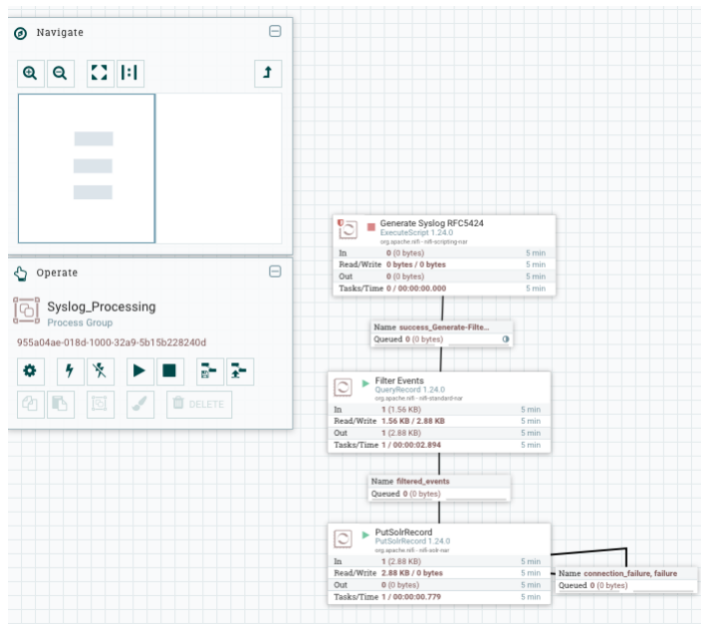
The screenshot shows the Apache Solr Admin UI. The left sidebar contains navigation links: Dashboard, Logging, Security, Core Admin, Java Properties, Thread Dump, **syslog** (selected), and Overview. The main content area is divided into three sections:

- Statistics**:
 - Last: -
 - Modified: -
 - Num Docs: 0
 - Max Doc: 0
 - Deleted: 0
 - Docs: -
 - Version: 2
 - Segment: 0
 - Count: -
 - Current:
- Instance**:
 - CWD: /opt/solr-9.4.1/server
 - Instance: /var/solr/data/syslog
 - Data: /var/solr/data/syslog/data
 - Index: /var/solr/data/syslog/data/index
 - Impl: org.apache.solr.core.NRTCachingDirectoryFac
- Replication (Leader)**:

	Version	Gen	Size
Leader (Searching)	0	1	69 bytes
Leader (Replicable)	-	-	-

Below the Replication section is a **Healthcheck** section with the message: "Ping request handler is not configured with a healthcheck file."

5. NiFi Advanced Flow with Solr



6. Querying Solr Data

The screenshot shows the Solr Admin UI with a query executed. The left sidebar contains navigation links: Dashboard, Logging, Security, Core Admin, Java Properties, Thread Dump, syslog (selected), Overview, Analysis, Documents, Params, Files, Ping, Plugins / Stats, Query (selected), Replication, Schema, and Segments info. The main panel displays the query results for the **syslog** index. The query is `/select?q=*:*&q.op=OR&fq=&sort=&start,rows=0,10&fl=&df=¶mset(s)=&wt=json&indent=true`. The response is a JSON object containing a **responseHeader** and a **response** object. The **response** object contains **numFound**, **start**, **numFoundExact**, **docs**, and **responseHeader**. The **docs** array contains three documents, each representing a syslog event. The first document has a **priority** of 75, **severity** of 3, **facility** of 9, **version** of 1, **timestamp** of 1707607905976, **hostname** of host1.example.com, **body** of application6 has stopped unexpectedly, **appName** of application6, **procid** of 5935, **messageid** of 1011, **structuredData_SDID_eventID** of 150, **structuredData_SDID_eventSource** of kernel, **structuredData_SDID_lut** of 5, **id** of 9e08b4c3-ca56-44e3-bb0f-9ea56d9ff60b, and **version** of 1790556985394987008. The second document has a **priority** of 16, **severity** of 0, **facility** of 2, **version** of 1, **timestamp** of 1707607906001, **hostname** of host9.example.com, **body** of application1 has stopped unexpectedly, **appName** of application1, **procid** of 3479, **messageid** of 1011, **structuredData_SDID_eventID** of 14, **structuredData_SDID_eventSource** of application, **structuredData_SDID_lut** of 9, **id** of 765317b2-93f9-42cb-a5a8-3b6c38b01942, and **version** of 1790556985508232216. The third document has a **priority** of 149, **severity** of 5, **facility** of 10, **version** of 1, and **timestamp** of 17076079060051.