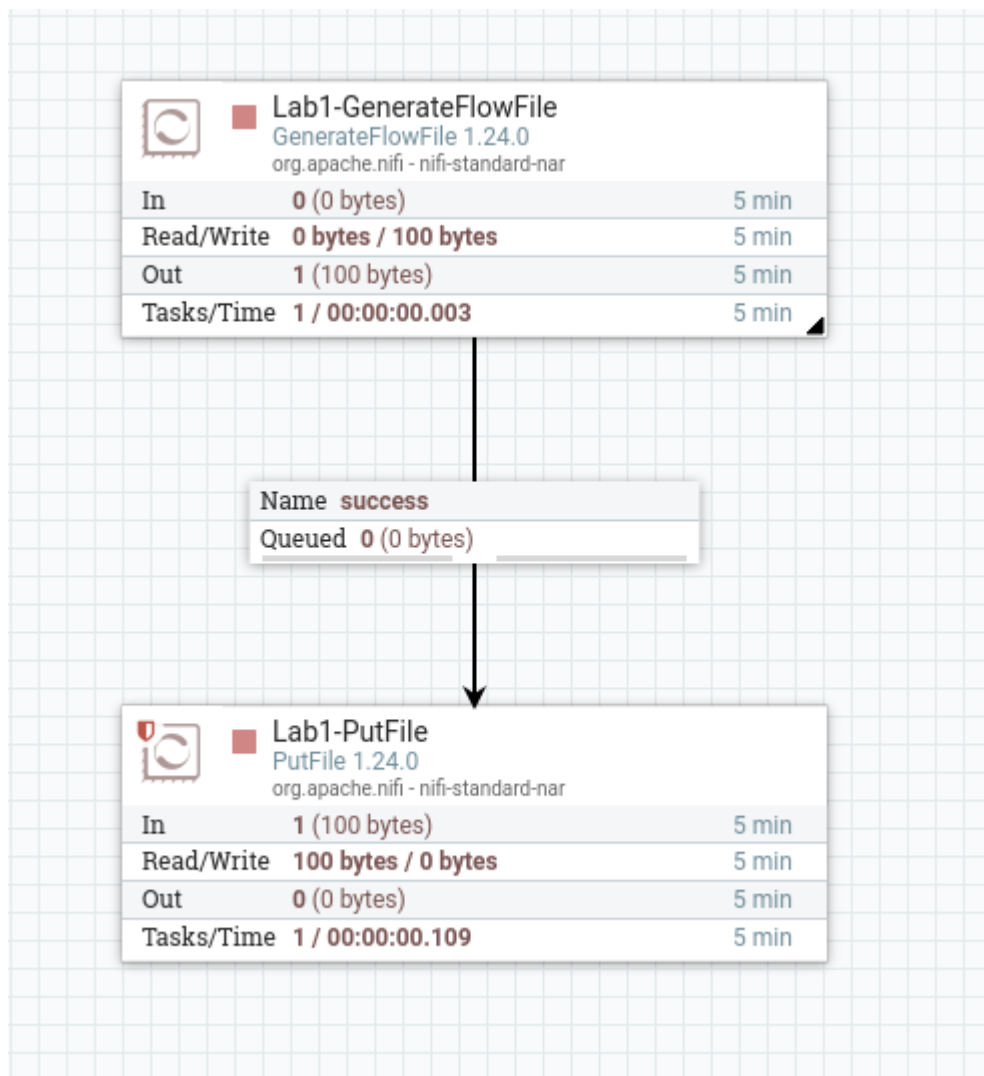


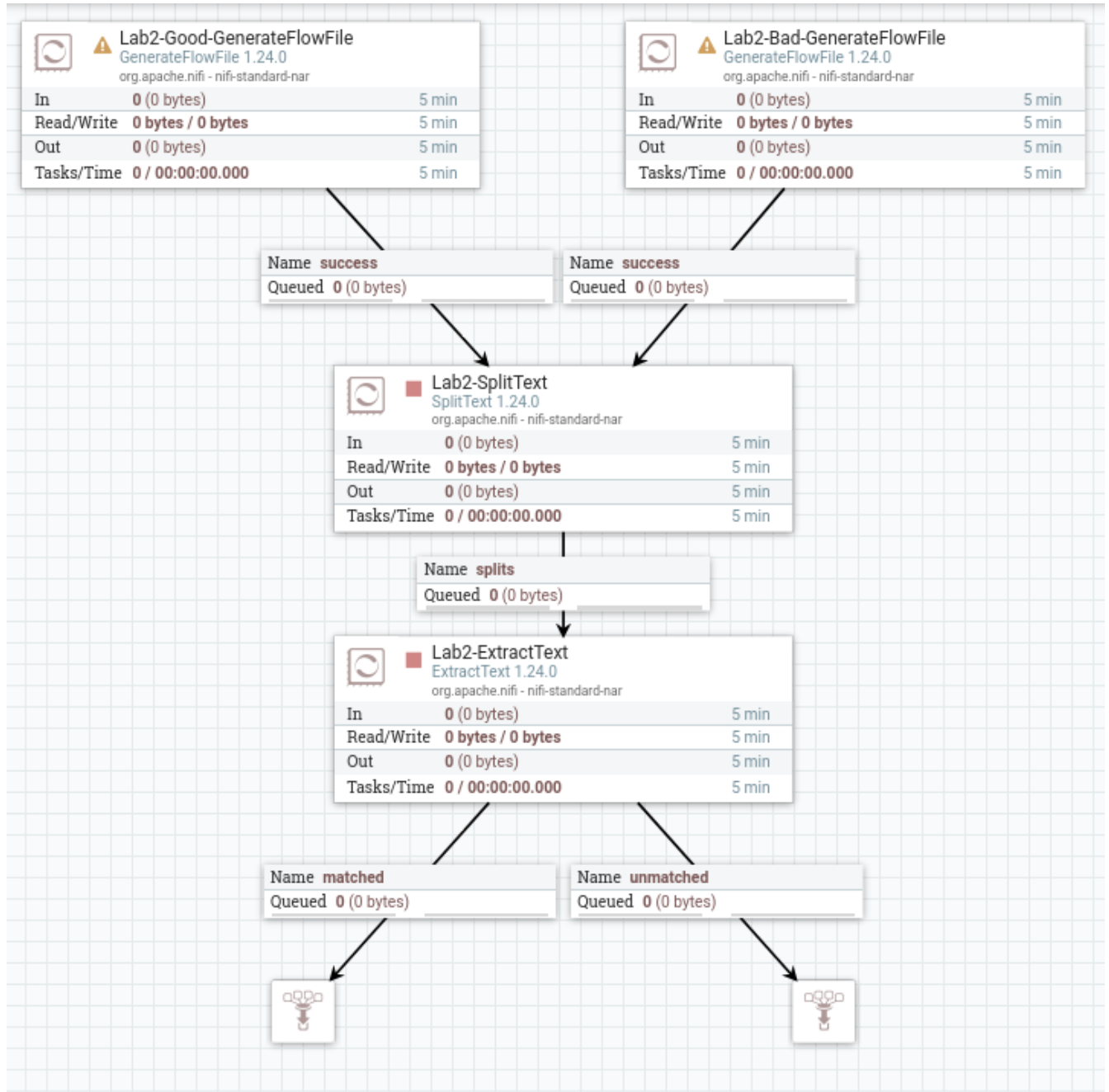
Practice №3. Nifi labs.


Ex.1



```
student@superset:/tmp/nifi/lab1$ ls -la
total 12
drwxr-xr-x 2 student root    4096 Feb 17 17:14 .
drwxr-xr-x 3 root     root    4096 Feb 17 17:13 ..
-rw-r--r-- 1 student student 100  Feb 17 17:14 2a6e52c7-a459-4178-b3d0-433e38206dd0
student@superset:/tmp/nifi/lab1$
```

Ex.2-3





Lab2-Good-GenerateFlowFile
 GenerateFlowFile 1.24.0
 org.apache.nifi - nifi-standard-nar


In	0 (0 bytes)	5 min
Read/Write	0 bytes / 255 bytes	5 min
Out	3 (255 bytes)	5 min
Tasks/Time	3 / 00:00:00.553	5 min


Name **success**
 Queued **3 (255 bytes)**

SUCCESS


Displaying 3 of 3 (255.00 bytes)

	Position	UUID	Filename	File Size	Queued Duration	Lineage Duration	Penalized	
1	1	166276af-1005-4d0f-8272-6729483ad593	166276af-1005-4d0f-8272-6729483ad593	85.00 bytes	00:01:33.411	00:01:33.510	No	 
2	2	08ac0531-f2dd-4e45-a1d9-5c100e4d4460	08ac0531-f2dd-4e45-a1d9-5c100e4d4460	85.00 bytes	00:01:20.326	00:01:20.326	No	 
3	3	c65ed444-ddc7-4c17-8720-4527498f3239	c65ed444-ddc7-4c17-8720-4527498f3239	85.00 bytes	00:00:53.868	00:00:53.868	No	 



View as: **original**


1 Henry: henry@lab.com
 2 Shaun: shaun@lab.com
 3 Jason: jason@lab.com
 4 Sharon: sharon@lab.com



Lab2-Bad-GenerateFlowFile
 GenerateFlowFile 1.24.0
 org.apache.nifi - nifi-standard-nar

In	0 (0 bytes)	5 min
Read/Write	0 bytes / 222 bytes	5 min
Out	6 (222 bytes)	5 min
Tasks/Time	6 / 00:00:00.030	5 min

Name **success**
 Queued **5 (185 bytes)**

Lab2-Bad-GenerateFlowFile

GenerateFlowFile 1.24.0

org.apache.nifi - nifi-standard-nar

In	0 (0 bytes)	5 min
Read/Write	0 bytes / 222 bytes	5 min
Out	6 (222 bytes)	5 min
Tasks/Time	6 / 00:00:00.030	5 min

Name success

Queued 6 (222 bytes)

success

Displaying 6 of 6 (222.00 bytes)

	Position	UUID	Filename	File Size	Queued Duration	Lineage Duration	Penalized	
1	1	003b8739-3af0-4de9-808e-5d15de377957	003b8739-3af0-4de9-808e-5d15de377957	37.00 bytes	00:01:32.393	00:01:32.394	No	
2	2	a2796311-36dd-4cec-8c80-cff7e5930e30	a2796311-36dd-4cec-8c80-cff7e5930e30	37.00 bytes	00:01:22.372	00:01:22.372	No	
3	3	144dedb2-aa10-4d57-9ab1-87bf64c43afb	144dedb2-aa10-4d57-9ab1-87bf64c43afb	37.00 bytes	00:01:12.368	00:01:12.369	No	
4	4	802c4812-2084-47a3-96c2-79bd62c1eb5a	802c4812-2084-47a3-96c2-79bd62c1eb5a	37.00 bytes	00:01:02.366	00:01:02.366	No	
5	5	36e1c3ac-dc55-4df1-a6ec-dfa8bd323e72	36e1c3ac-dc55-4df1-a6ec-dfa8bd323e72	37.00 bytes	00:00:52.365	00:00:52.365	No	
6	6	40a97df2-49a9-4902-9c9c-cad40d50af6e	40a97df2-49a9-4902-9c9c-cad40d50af6e	37.00 bytes	00:00:42.362	00:00:42.363	No	

View as:

original

1

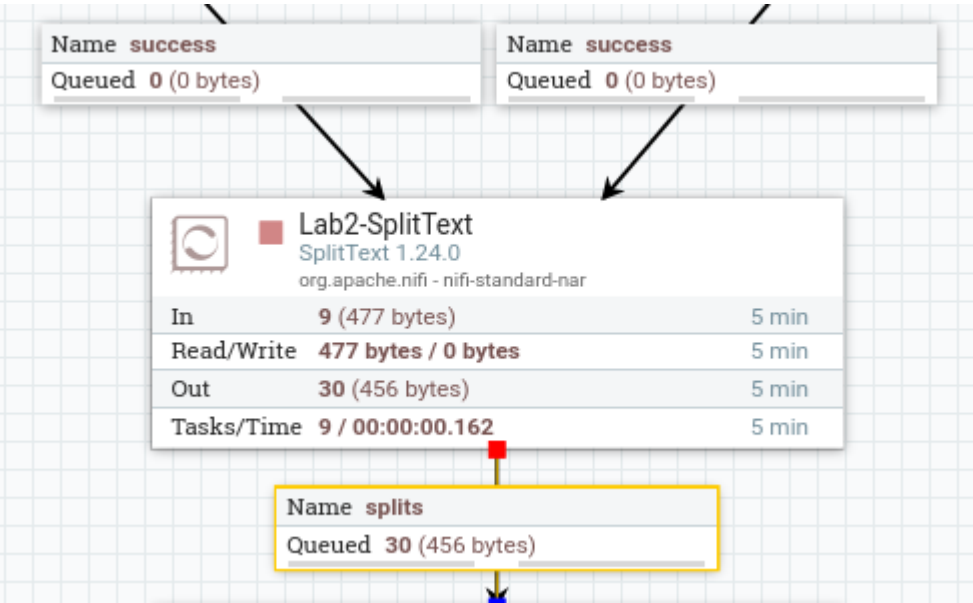
2


3

some text

more random text

last text






View as: original ▼

1

Henry: henry@lab.com



View as: original ▼

1

some text

FlowFile

DETAILS

ATTRIBUTES

Attribute Values

filename
166276af-1005-4d0f-8272-6729483ad593

fragment.count
4

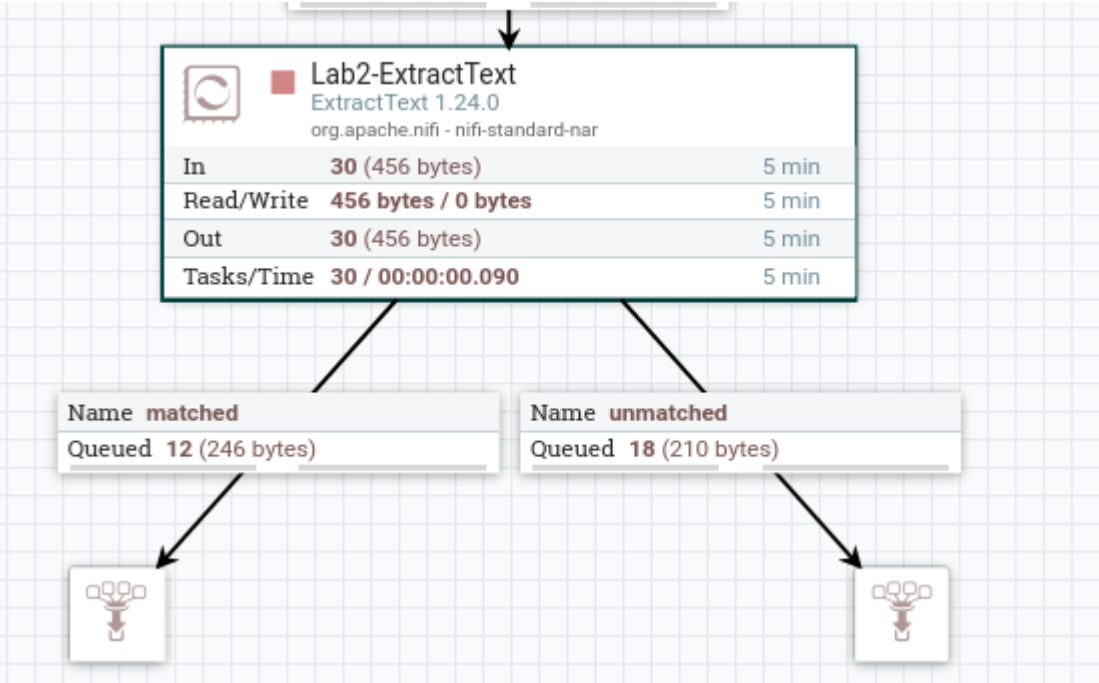
fragment.identifier
b60b6890-affa-4ed5-909d-8a2af80fe08d

fragment.index
1

fragment.size
20

path
./

segment original filename




matched

Displaying 12 of 12 (246.00 bytes)

The destination of this queue is currently running. This listing may no longer be accurate.

	Position	UUID	Filename	File Size	Queued Duration	Lineage Duration	Penalized	
1	1	7eb52b1e-e603-4f4d-9524-974a45550661	166276af-1005-4d0f-8272-6729483ad593	20.00 bytes	00:00:31.386	00:09:41.531	No	
2	2	30d82a89-2272-4edf-84d4-a653a557ee89	166276af-1005-4d0f-8272-6729483ad593	20.00 bytes	00:00:31.383	00:09:41.531	No	
3	3	eb85d3ba-ef43-42b4-af70-8d707b557c7	166276af-1005-4d0f-8272-6729483ad593	20.00 bytes	00:00:31.383	00:09:41.531	No	
4	4	6d075a37-0aa1-40eb-8ac2-35819a508611	166276af-1005-4d0f-8272-6729483ad593	22.00 bytes	00:00:31.382	00:09:41.531	No	
5	5	8a28206a-ee96-4b18-9d27-99eeb20a5cd1	08ac0531-f2dd-4e45-a1d9-5c100e4d4460	20.00 bytes	00:00:31.382	00:09:28.347	No	
6	6	75cd3ac1-f908-4402-bdef-bdb31709c269	08ac0531-f2dd-4e45-a1d9-5c100e4d4460	20.00 bytes	00:00:31.370	00:09:28.347	No	
7	7	e916c267-2f3f-4e10-993b-5553154943da	08ac0531-f2dd-4e45-a1d9-5c100e4d4460	20.00 bytes	00:00:31.369	00:09:28.347	No	
8	8	212cdc0d-8674-45fd-b7c4-3c7db3676035	08ac0531-f2dd-4e45-a1d9-5c100e4d4460	22.00 bytes	00:00:31.366	00:09:28.347	No	
9	9	7dad1171-6f5e-4c87-8bfd-88990a79c6e5	c65ed444-ddc7-4c17-8720-4527498f3239	20.00 bytes	00:00:31.364	00:09:01.889	No	
10	10	b1d04560-9497-4d95-b2b2-7101fae57cde	c65ed444-ddc7-4c17-8720-4527498f3239	20.00 bytes	00:00:31.363	00:09:01.889	No	
11	11	fcbb18b04-c223-48d2-9f36-28f4dfa888bd	c65ed444-ddc7-4c17-8720-4527498f3239	20.00 bytes	00:00:31.362	00:09:01.889	No	
12	12	46a2637c-dcc2-441b-a5f2-d69ffc51010f	c65ed444-ddc7-4c17-8720-4527498f3239	22.00 bytes	00:00:31.359	00:09:01.889	No	



View as: original

1 Henry: henry@lab.com

Attribute Values

filename
166276af-1005-4d0f-8272-6729483ad593

fragment.count
4

fragment.identifier
b60b6890-affa-4ed5-909d-8a2af80fe08d

fragment.index
1

fragment.size
20

names
Henry

FlowFile

DETAILS

ATTRIBUTES

Attribute Values

filename
003b8739-3af0-4de9-808e-5d15de3f7957

fragment.count
3

fragment.identifier
891aa7fd-bd1d-41f2-9385-0ede56ec003b

fragment.index
1

fragment.size
9

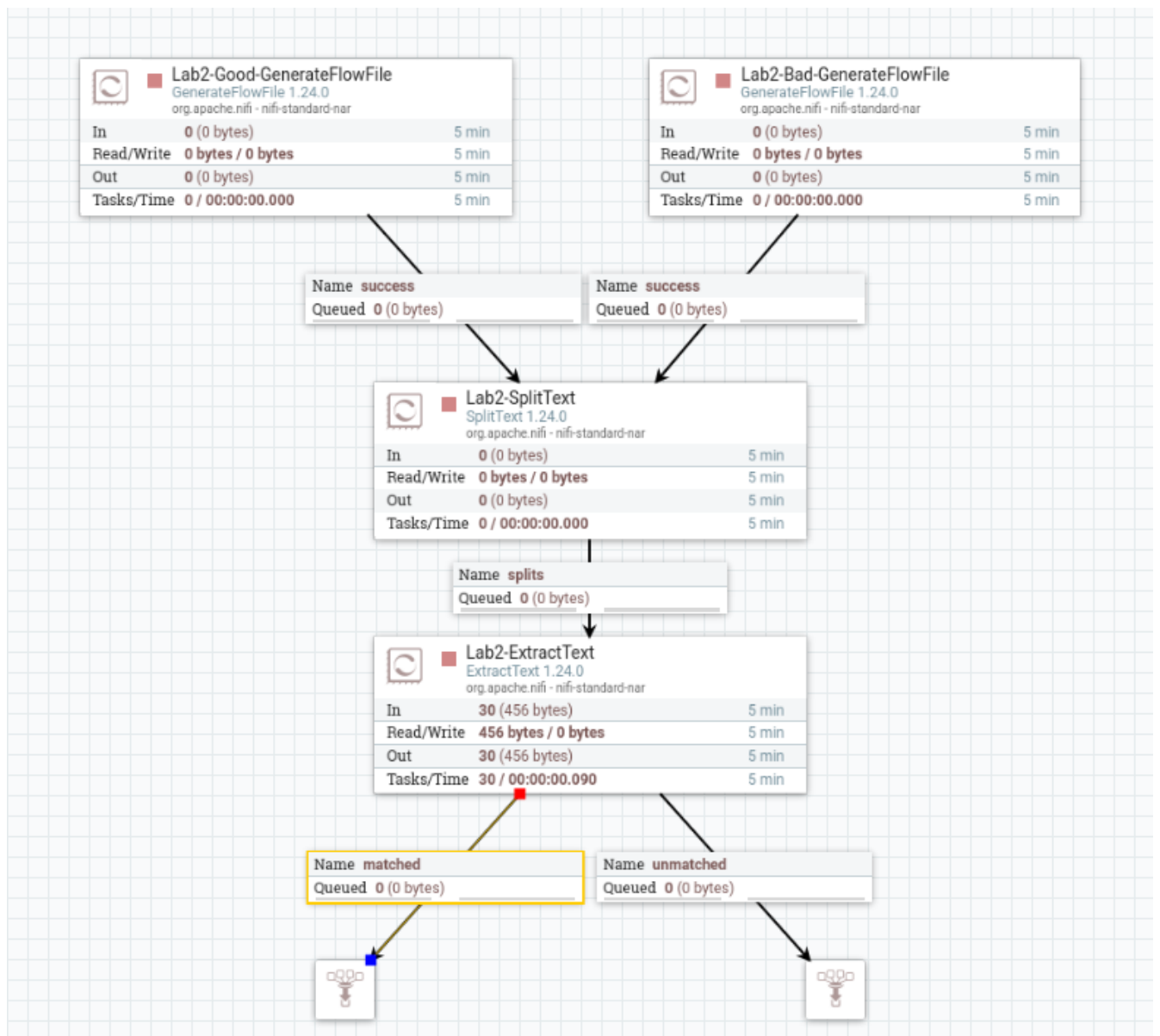
path
./

segment original filename

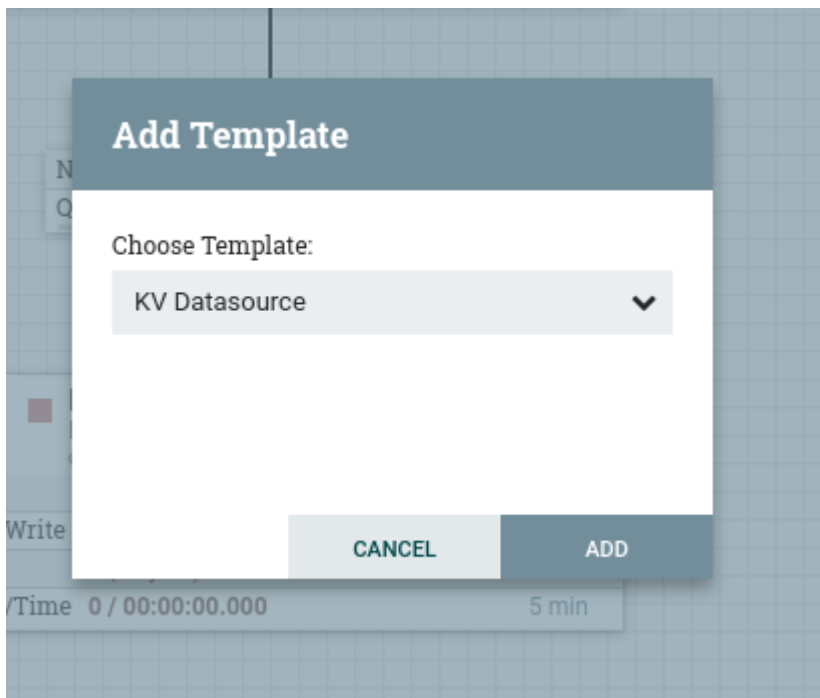
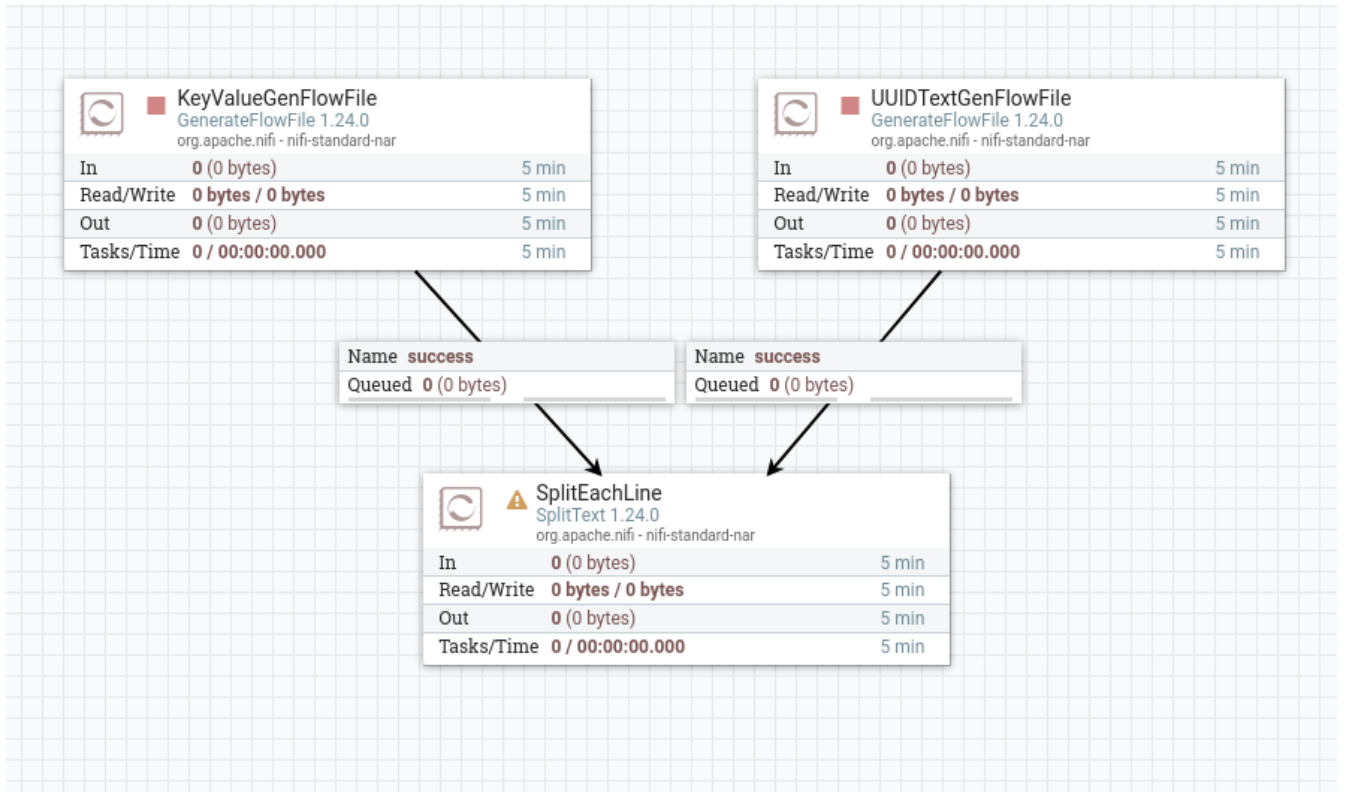


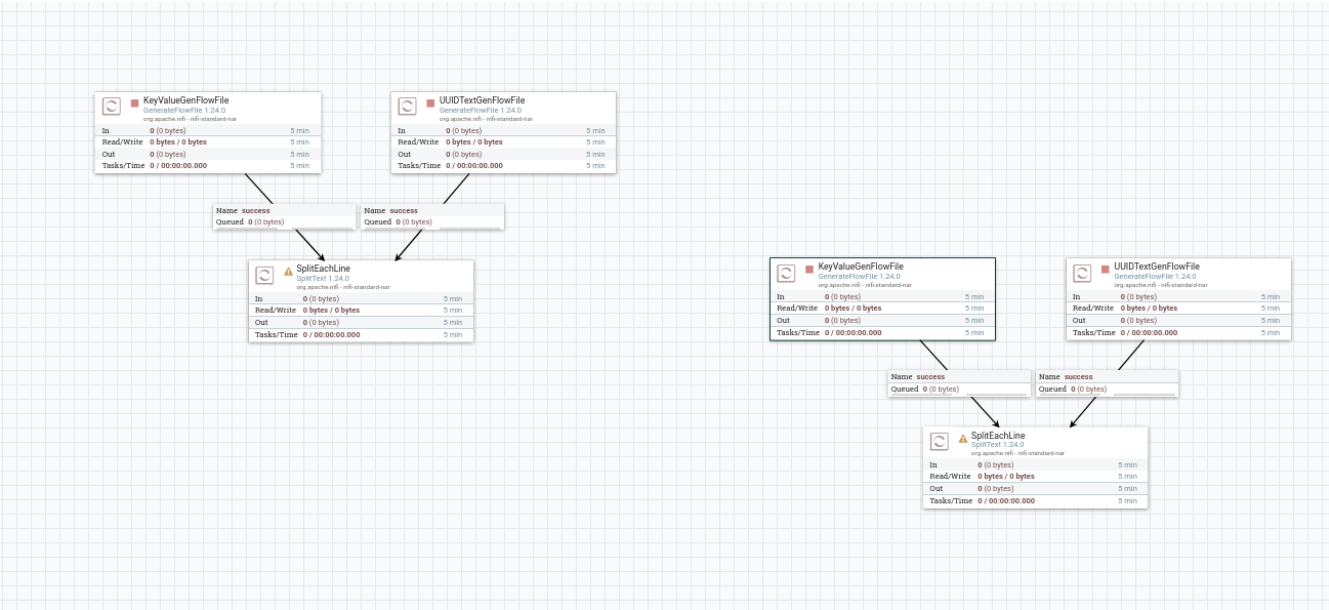
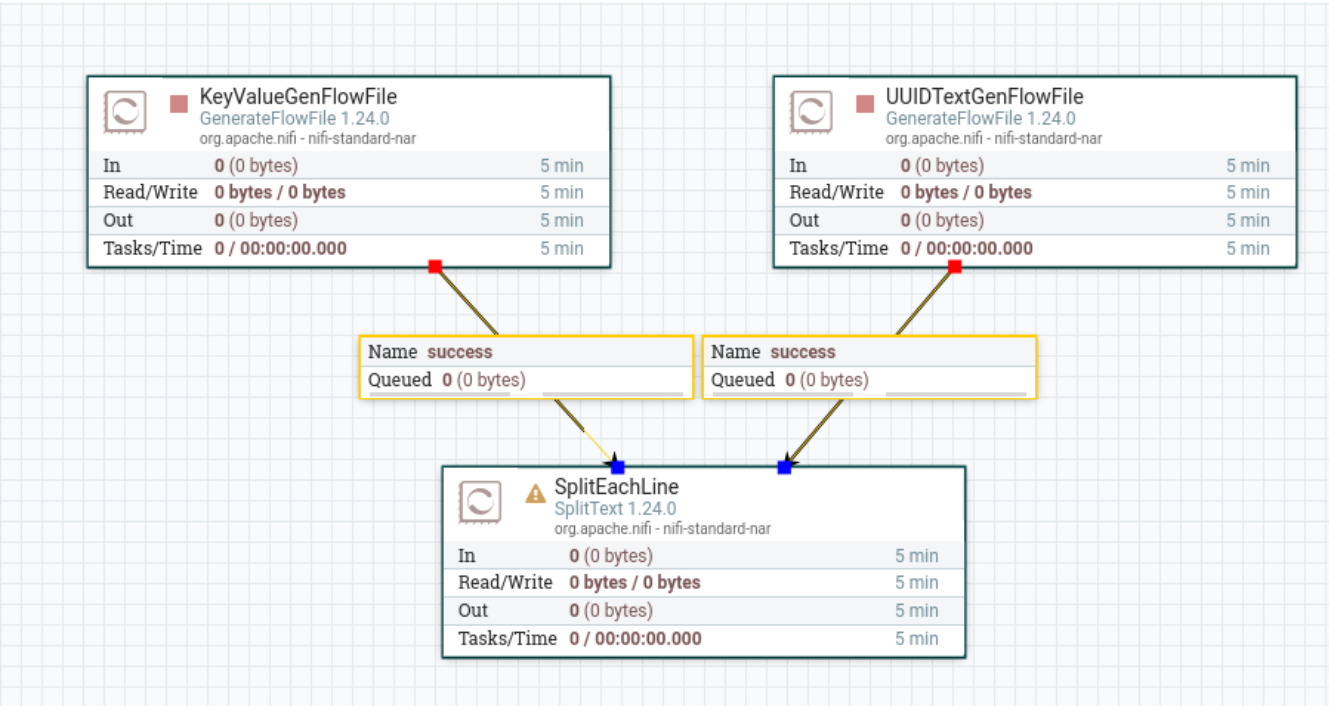
View as: original

1 some text



Ex.4





NiFi Templates

Displaying 1 of 1

Date/Time	Name	Description	Process Group Id
02/17/2025 18:24:45 UTC	KV Datasource	Empty string set	0195101a-a1a5-1479-af3d-a15ae5ae8458

KV_Datasource.xml
Completed — 15.5 kB

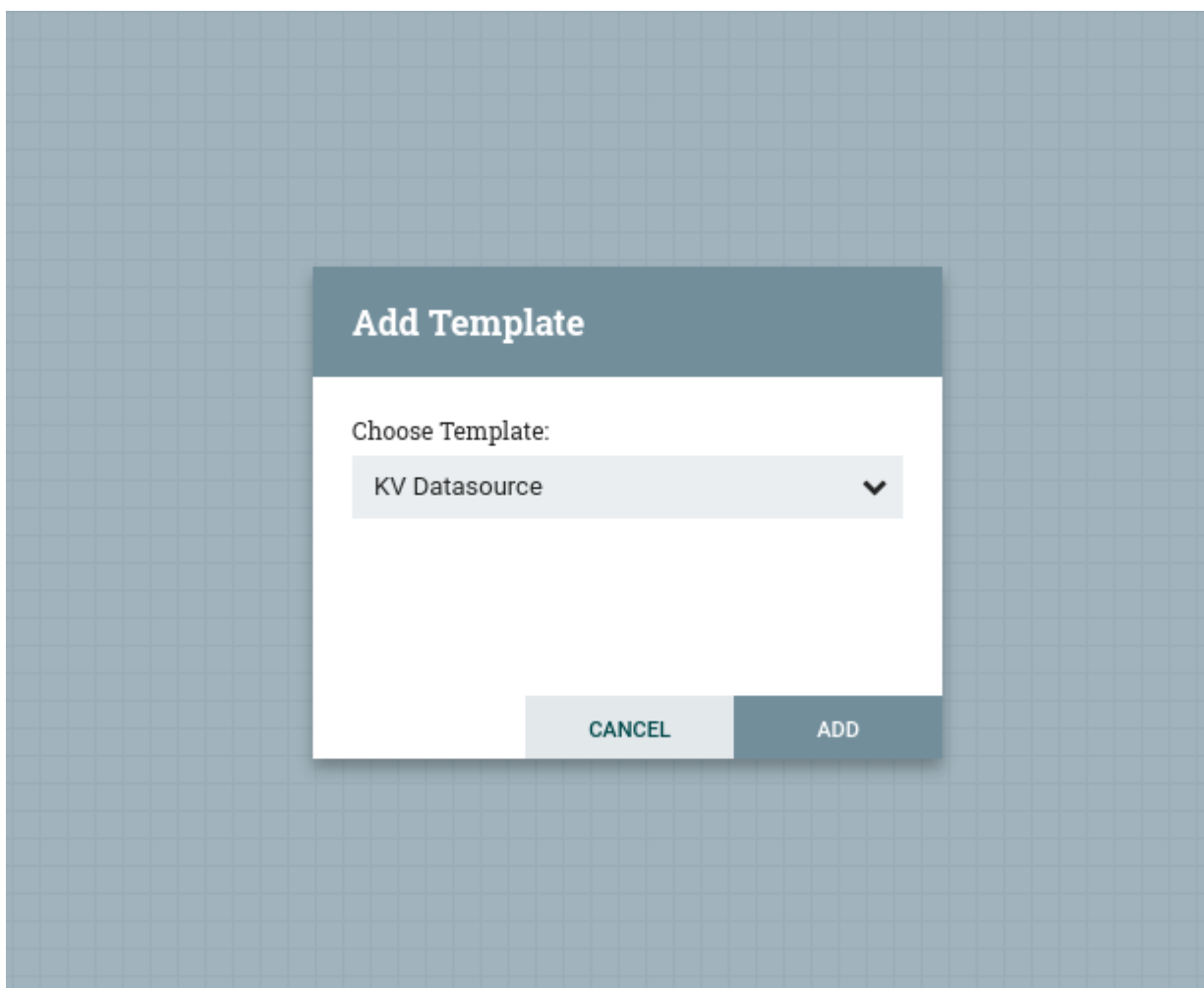
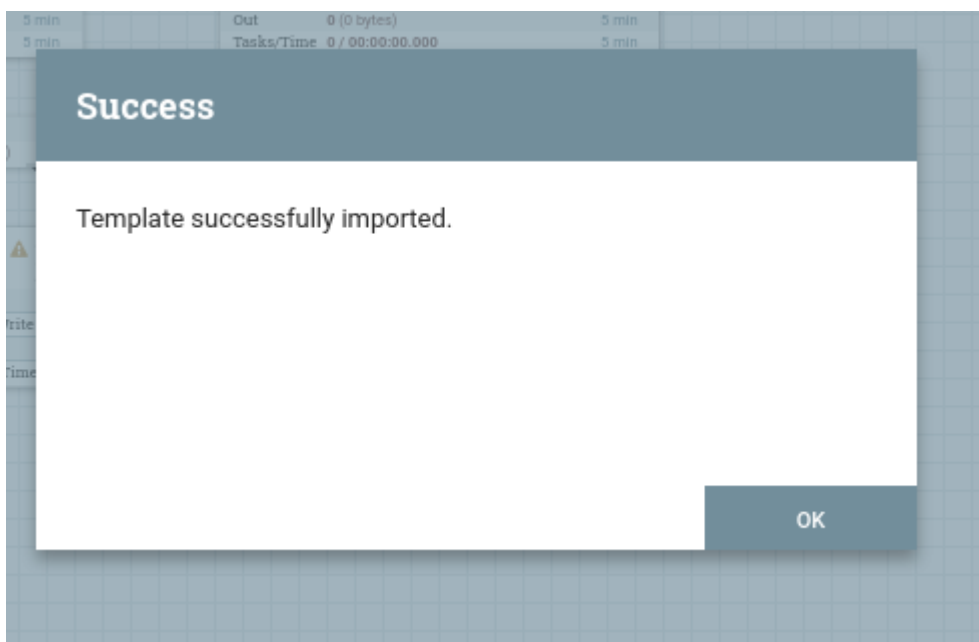
[Show all downloads](#)

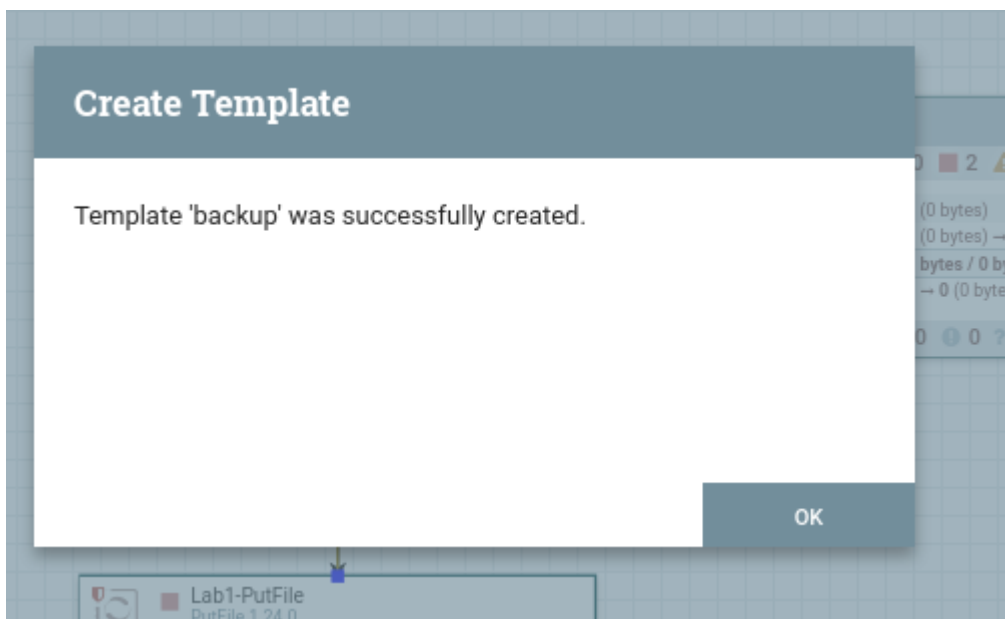
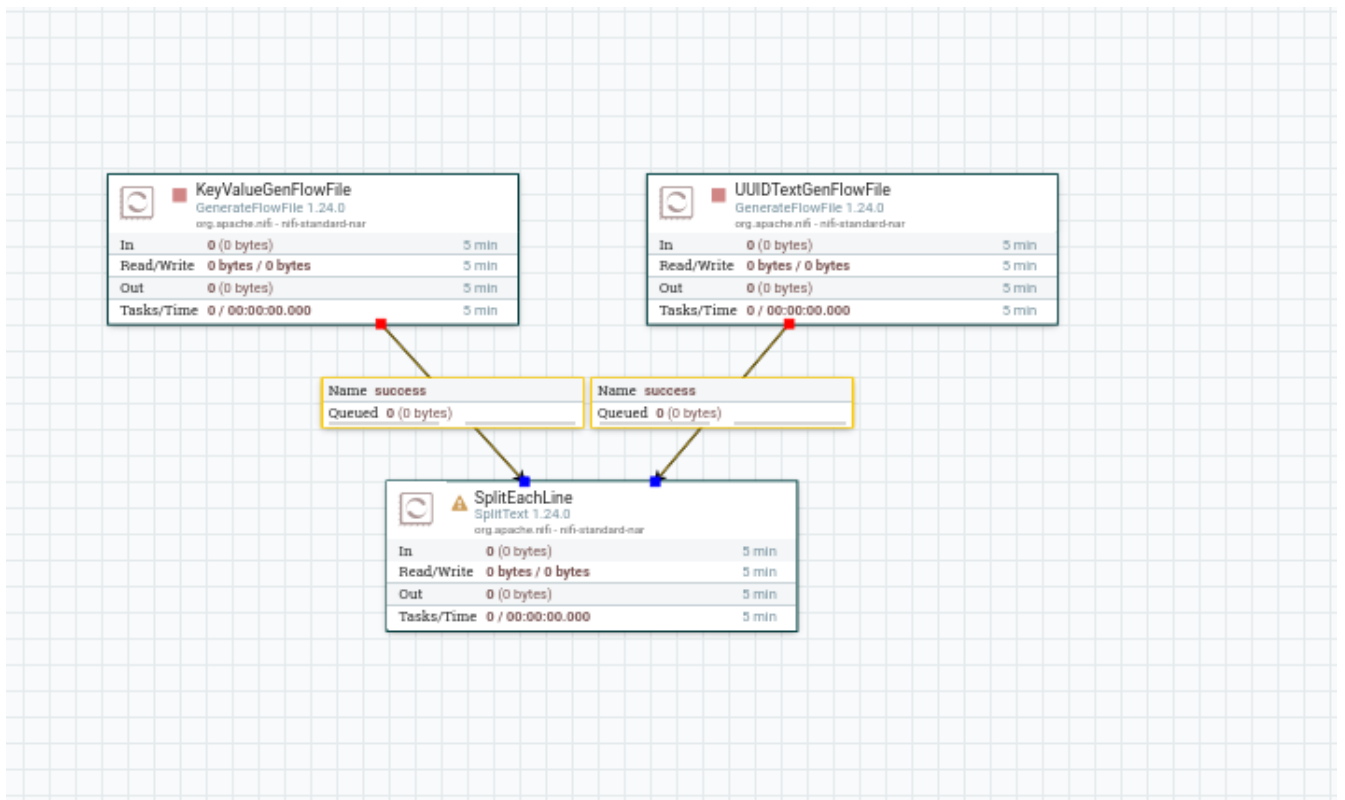
Process Group Id

```

student@superset:~$ cd Downloads
student@superset:~/Downloads$ cat KV_Datasource.xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<template encoding-version="1.3">
  <description></description>
  <groupId>0195101a-a1a5-1479-af3d-a15ae5ae8458</groupId>
  <name>KV Datasource</name>
  <snippet>
    <connections>
      <id>7b41450f-0a76-39b3-0000-000000000000</id>
      <parentGroupId>5d528afb-f2d0-39e1-0000-000000000000</parentGroupId>
      <backPressureDataSizeThreshold>1 GB</backPressureDataSizeThreshold>
      <backPressureObjectThreshold>10000</backPressureObjectThreshold>
      <destination>
        <groupId>5d528afb-f2d0-39e1-0000-000000000000</groupId>
        <id>8cf54eef-042e-3141-0000-000000000000</id>
        <type>PROCESSOR</type>
      </destination>
      <flowFileExpiration>0 sec</flowFileExpiration>
      <labelIndex>1</labelIndex>
      <loadBalanceCompression>DO_NOT_COMPRESS</loadBalanceCompression>
      <loadBalancePartitionAttribute></loadBalancePartitionAttribute>
      <loadBalanceStatus>LOAD_BALANCE_NOT_CONFIGURED</loadBalanceStatus>
      <loadBalanceStrategy>DO_NOT_LOAD_BALANCE</loadBalanceStrategy>
      <name></name>
      <selectedRelationships>success</selectedRelationships>
      <source>
        <groupId>5d528afb-f2d0-39e1-0000-000000000000</groupId>
        <id>86902aef-2938-3eb1-0000-000000000000</id>
        <type>PROCESSOR</type>
      </source>
      <zIndex>0</zIndex>
    </connections>
    <connections>
      <id>fb936af5-ea8d-3ad2-0000-000000000000</id>
      <parentGroupId>5d528afb-f2d0-39e1-0000-000000000000</parentGroupId>
      <backPressureDataSizeThreshold>1 GB</backPressureDataSizeThreshold>
      <backPressureObjectThreshold>10000</backPressureObjectThreshold>
      <destination>
        <groupId>5d528afb-f2d0-39e1-0000-000000000000</groupId>
        <id>8cf54eef-042e-3141-0000-000000000000</id>
        <type>PROCESSOR</type>
      </destination>
      <flowFileExpiration>0 sec</flowFileExpiration>
      <labelIndex>1</labelIndex>
      <loadBalanceCompression>DO_NOT_COMPRESS</loadBalanceCompression>

```



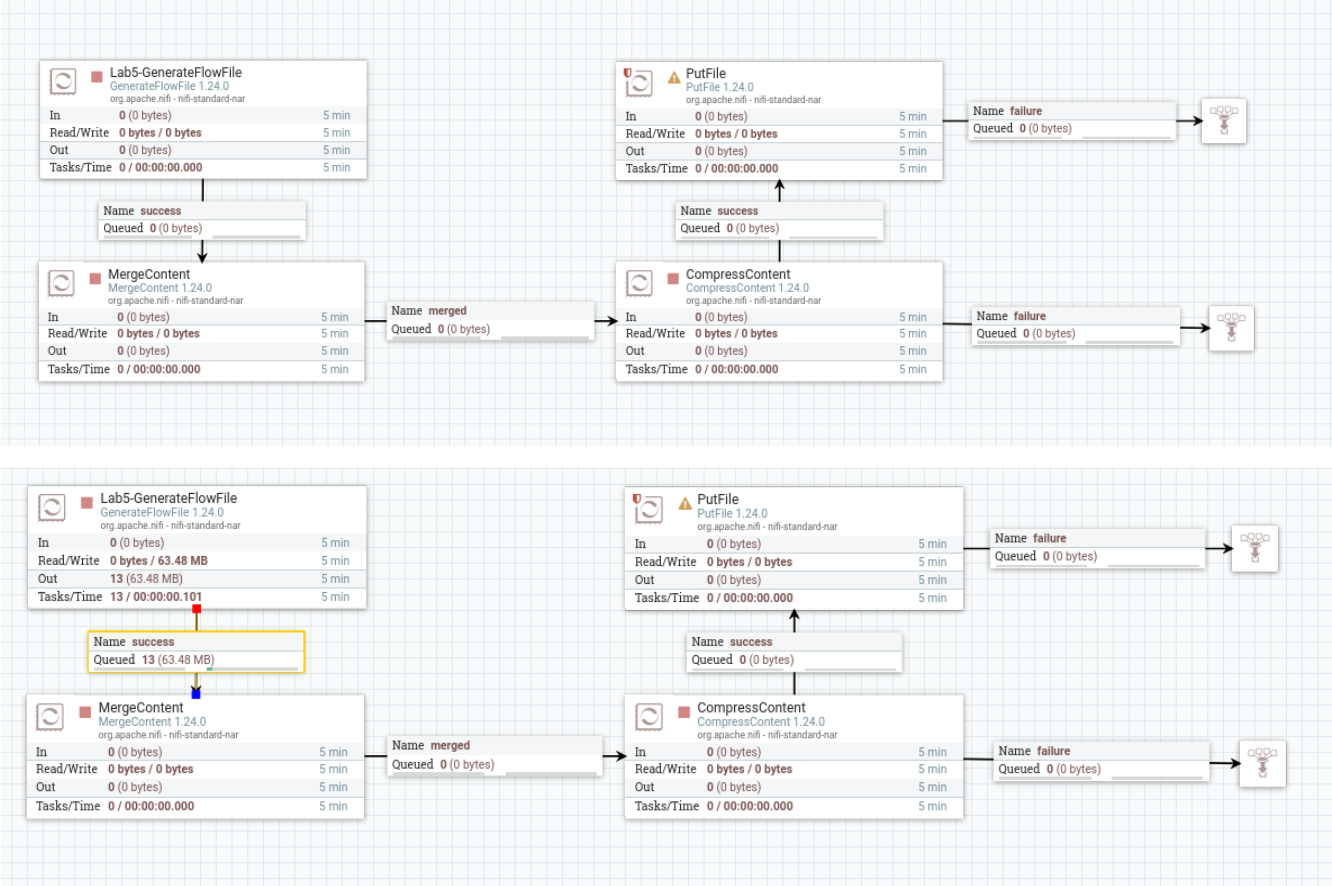


NiFi Templates

Displaying 2 of 2

Filter	by name	▼
Date/Time ▼	Name	
02/17/2025 18:31:04 UTC	backup	
02/17/2025 18:29:39 UTC	KV Datasource	

Ex.5



DETAILS

ATTRIBUTES

Attribute Values

filename
f16ef851-b3f2-4fd9-a67c-3ffff1f16432

path
./

uuid
f16ef851-b3f2-4fd9-a67c-3ffff1f16432

DETAILS	ATTRIBUTES
<div>FlowFile Details</div> <div>Content Claim</div>	
<div>UUID</div> <div>f16ef851-b3f2-4fd9-a67c-3ffff1f16432</div>	<div>Container</div> <div>default</div>
<div>Filename</div> <div>f16ef851-b3f2-4fd9-a67c-3ffff1f16432</div>	<div>Section</div> <div>1</div>
<div>File Size</div> <div>4.88 MB</div>	<div>Identifier</div> <div>1739812174050-1</div>
<div>Queue Position</div> <div>No value set</div>	<div>Offset</div> <div>477</div>
<div>Queued Duration</div> <div>00:01:45.622</div>	<div>Size</div> <div>4.88 MB</div>
<div>Lineage Duration</div> <div>00:01:45.628</div>	<div> <div>DOWNLOAD</div> <div>VIEW</div> </div>
<div>Penalized</div> <div>No</div>	

MergeContent

MergeContent 1.24.0

org.apache.nifi - nifi-standard-nar

In	13 (63.48 MB)	5 min
Read/Write	63.48 MB / 63.48 MB	5 min
Out	1 (63.48 MB)	5 min
Tasks/Time	18 / 00:00:00.745	5 min

Name merged

Queued 1 (63.48 MB)

FlowFile

DETAILS

ATTRIBUTES

FlowFile Details

UUID
c04505c4-1681-490e-bd11-089ae7e7a4e2

Filename
13549770812635.tar

File Size
63.48 MB

Queue Position
No value set

Queued Duration
00:00:53.354

Lineage Duration
00:00:53.947

Penalized
No

Content Claim

Container
default

Section
14

Identifier
1739817773254-14

Offset
0

Size
63.48 MB



DOWNLOAD



VIEW

Attribute Values

filename
13549770812635.tar

merge.bin.age
649

merge.count
13

merge.reason
MIN_THRESHOLDS_REACHED

mime.type
application/tar

path
./

uuid

Name success

Queued 1 (52.46 MB)



CompressContent

CompressContent 1.24.0
org.apache.nifi - nifi-standard-nar

In	1 (63.48 MB)	5 min
Read/Write	63.48 MB / 52.46 MB	5 min
Out	1 (52.46 MB)	5 min
Tasks/Time	1 / 00:00:01.586	5 min

DETAILS

ATTRIBUTES

Attribute Values

merge.bin.age

649

merge.count

13

merge.reason

MIN_THRESHOLDS_REACHED

mime.type

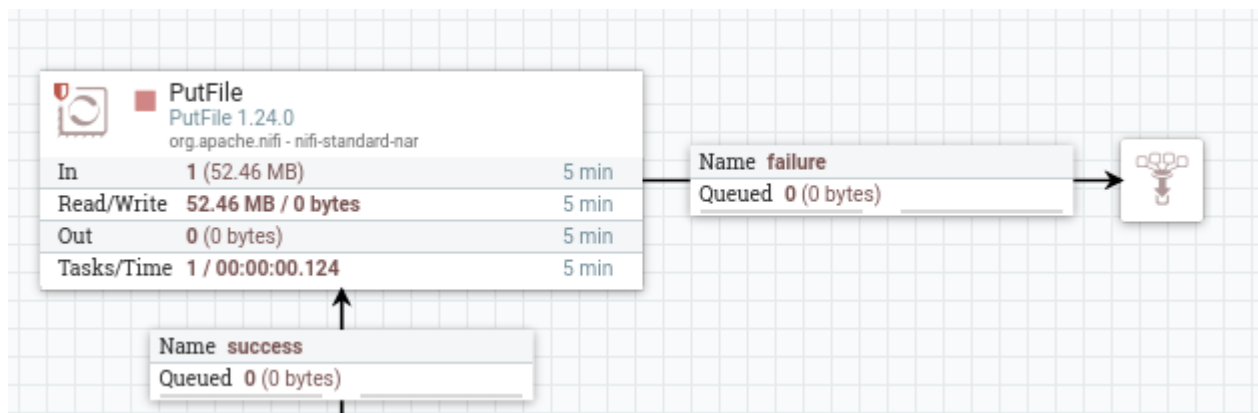
application/gzip

path

./

uuid

c04505c4-1681-490e-bd11-089ae7e7a4e2

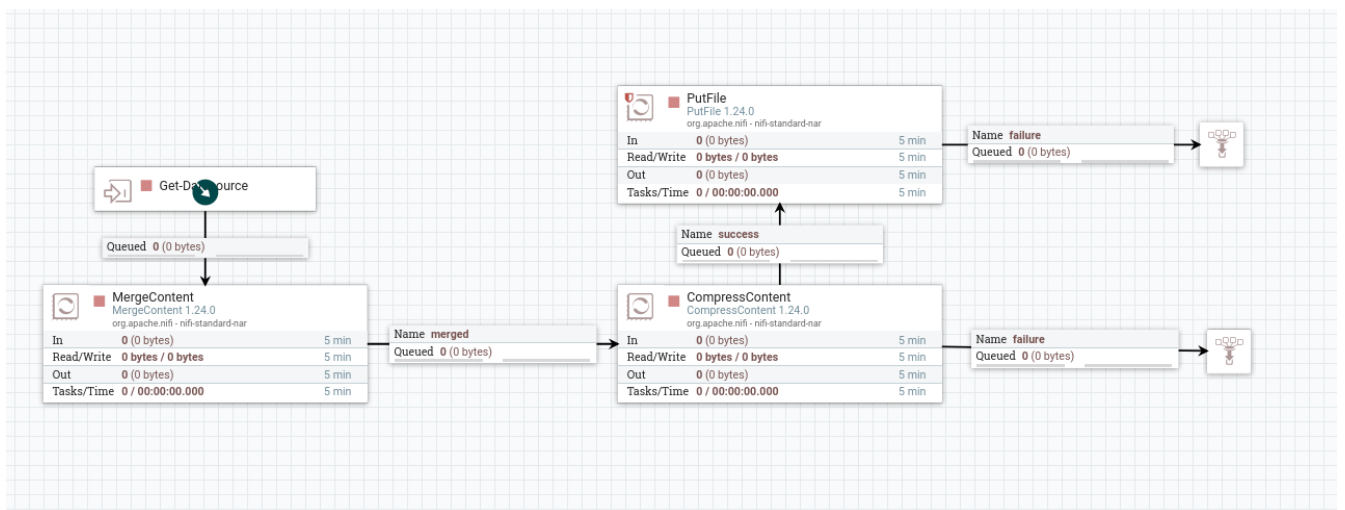


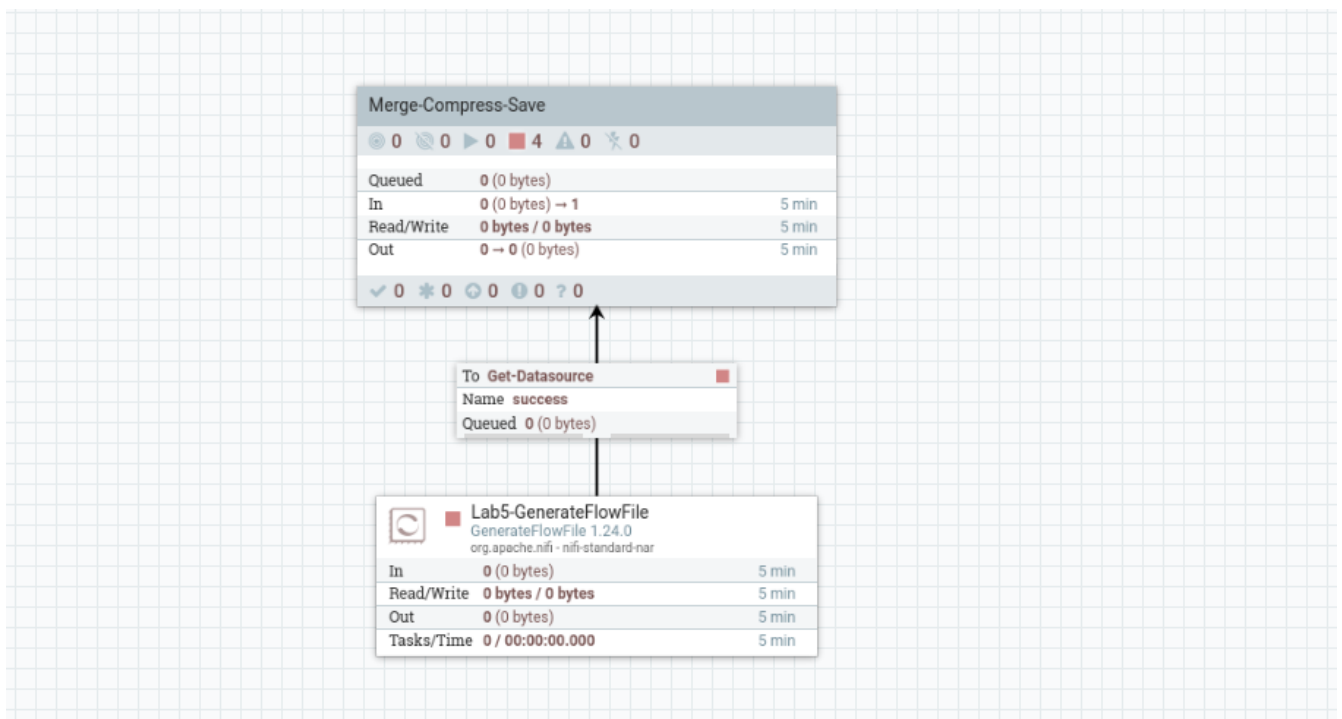
```
student@superset:/tmp/nifi/lab5$ ls -la
total 53736
drwxr-xr-x 2 student root      4096 Feb 17 21:48 .
drwxr-xr-x 3 root      root      4096 Feb 17 21:37 ..
-rw-r--r-- 1 student student 55009610 Feb 17 21:48 13549770812635.tar
```

```

student@superset:/tmp/nifi/lab5$ tar xvfz 13549770812635.tar
f16ef851-b3f2-4fd9-a67c-3fffff1f16432
a40837c5-7be8-459b-b51a-9afa8e54d66c
81892729-39da-47c6-b20e-0fe84a74ce27
0a92444e-1264-4df5-9787-71fa9af7f46f
36c43650-bdba-4172-8b96-246abcd3ffdc
65140340-8673-473f-9644-40729590f928
79b766d7-a5d5-45ed-b76f-ccf0da635ede
7590ef40-1523-45b3-b0cf-65cf5a8caf0f
a3330bf1-77e1-4201-af46-62717bc7be30
3fc73bbb-dacf-4160-89da-a2b991e32576
89d920ae-70df-4ec8-a733-9d4fc3865000
b5f0775a-8c11-45cd-9480-3d081a2a6d54
8d14f9fd-45bd-4bcf-b0c3-f202fd130cca

```

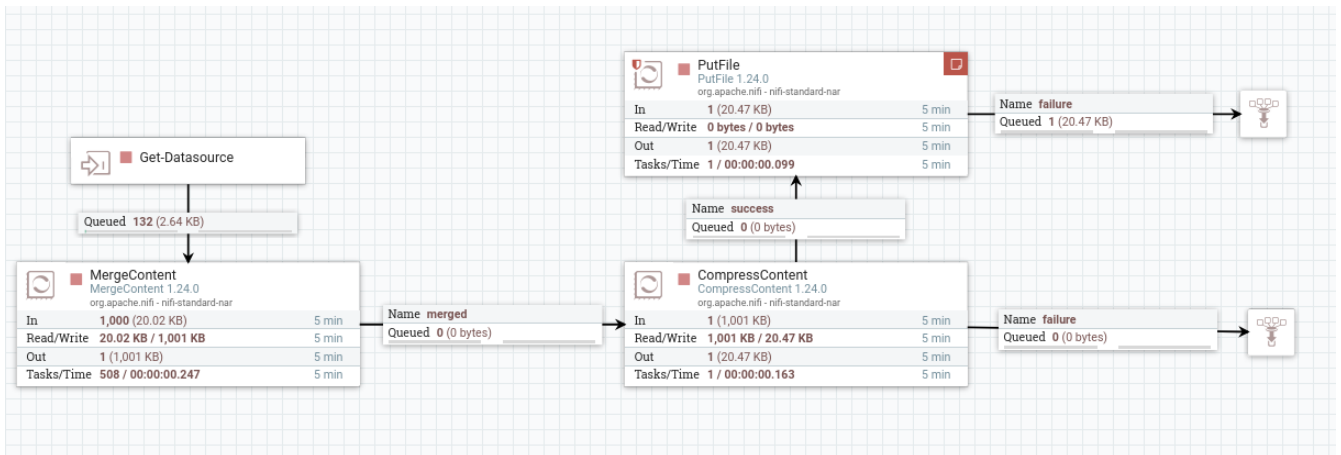
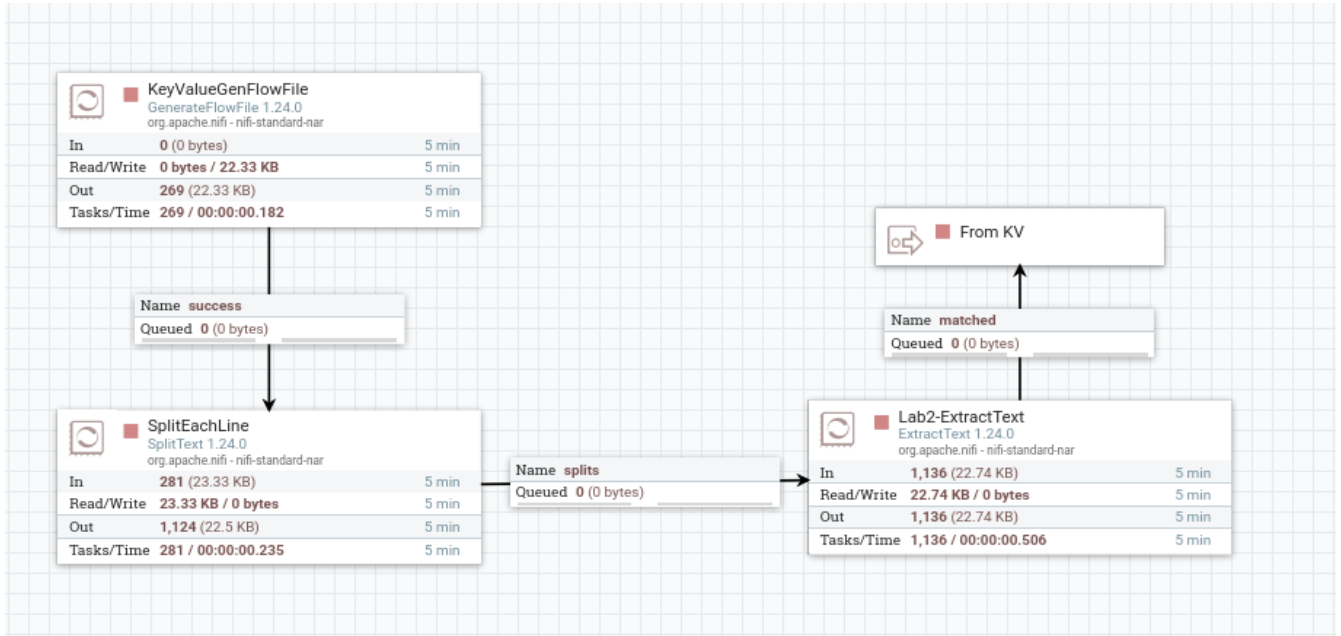


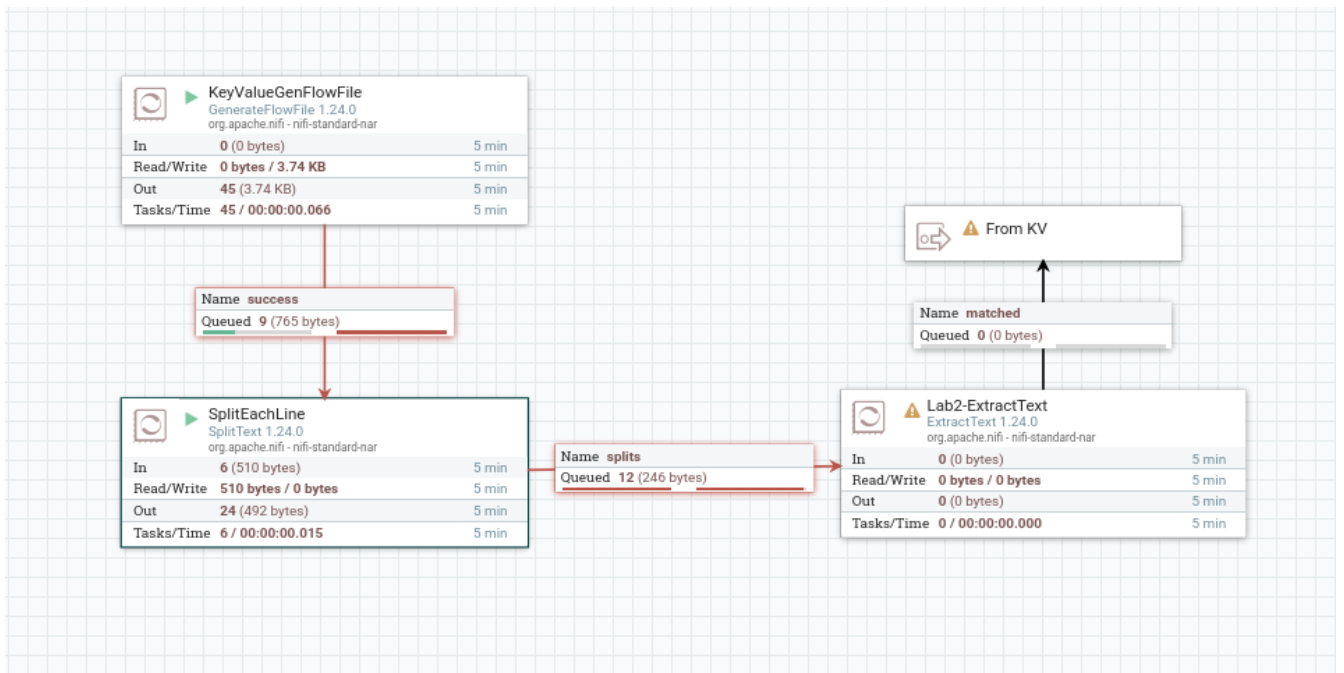


```
student@superset:/tmp/nifi/lab5$ rm -f *
student@superset:/tmp/nifi/lab5$ ls -la
total 8
drwxr-xr-x 2 student root 4096 Feb 17 22:14 .
drwxr-xr-x 3 root    root 4096 Feb 17 21:37 ..
student@superset:/tmp/nifi/lab5$ ls -la
total 49600
drwxr-xr-x 2 student root      4096 Feb 17 22:16 .
drwxr-xr-x 3 root    root      4096 Feb 17 21:37 ..
-rw-r--r-- 1 student student 50778801 Feb 17 22:16 15536022186601.tar
```

Ex.6

I've set limits to be 250 B and 750 B respectively, since the files generated were small enough for queues to be full because of their numbers, not size.





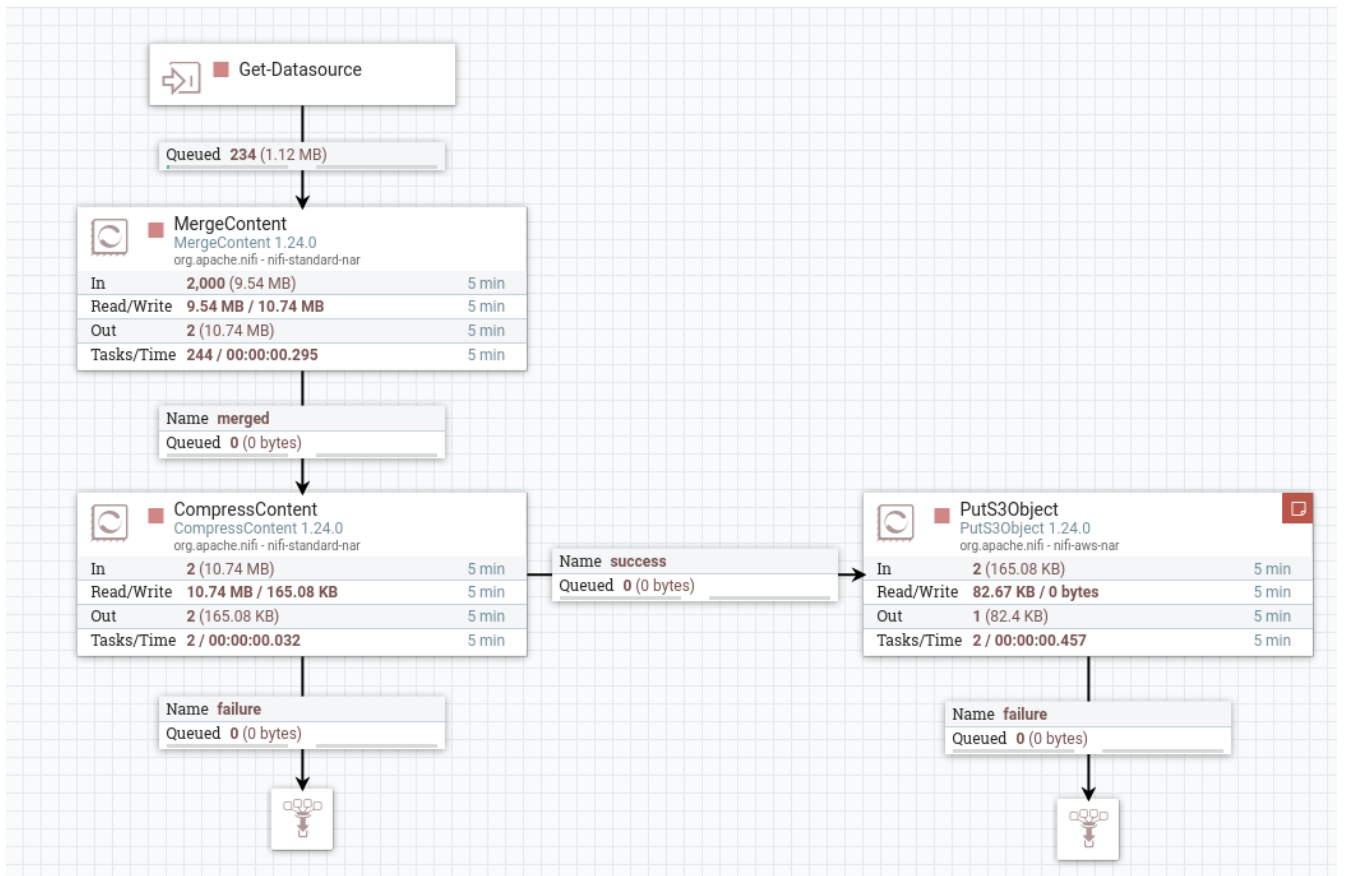
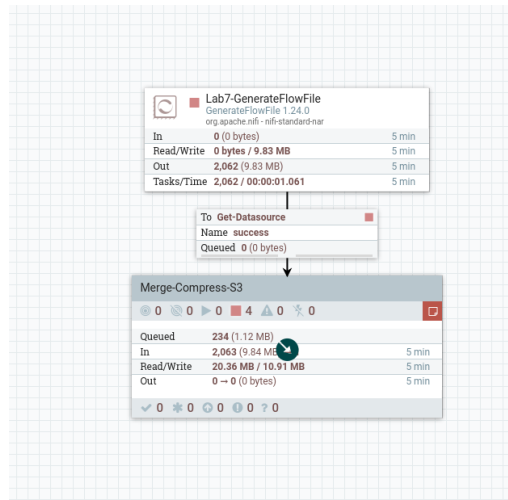
student@superset: /tmp/nifi/lab5

```
student@superset:~$ cd /tmp/nifi/lab5
student@superset:/tmp/nifi/lab5$ ls -la
total 8
drwxr-xr-x 2 student root 4096 Feb 20 01:38 .
drwxr-xr-x 3 root    root 4096 Feb 20 01:38 ..
student@superset:/tmp/nifi/lab5$ ls -la
total 32
drwxr-xr-x 2 student root    4096 Feb 20 01:51 .
drwxr-xr-x 3 root    root    4096 Feb 20 01:38 ..
-rw-r--r-- 1 student student 20939 Feb 20 01:51 f9cf45fd-b5c9-42e6-8c48-7a59f92a4c9e.tar
student@superset:/tmp/nifi/lab5$
```

Flow details for Merge-Compress-Save:

- Queued: 800 (16.02 KB)
- In: 1,196 (23.94 KB) → 1
- Read/Write: 1.02 MB / 1,021.45 KB
- Out: 0 → 0 (0 bytes)

Ex.7



kirdinmatvei-lab7


Папки и файлы Ключи Multipart

Корневая директория

 Новая папка

 Добавить файл



<input type="checkbox"/>	Название ▾	Размер ▾	Дата изменения ▾	
<input type="checkbox"/>	 7116605244915.tar	82.7 КБ	20.02.2025 13:47	...