Supletivo **Apache NiFi**

#data-engineering



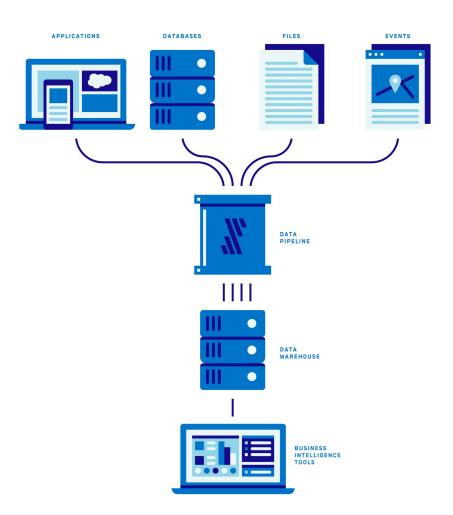


Pergunte o que quiser aos nossos especialistas no Slack

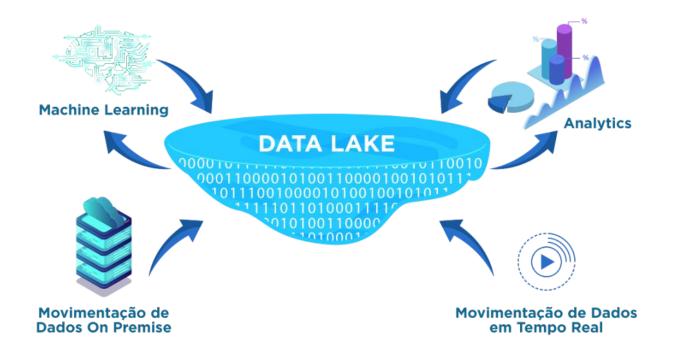
#random **Data Hackers** Assuntos gerais quando não é aplicado a um canal específico. image.png Todos os tópicos Marcio Ribeiro Boa tarde pessoal. Gostaria de compartilhar um projeto que estou desenvolvendo baseado nos dados do CartolaFC. Ainda está em fase inicial e com alguns pequenos bugs. # machine-learning Meu objetivo é aprender sobre as ferramentas do Google Cloud e como se comunicam. # random Agora estou utilizando os dados que coletei para treinar um modelo de previsão de pontuação dos atletas. Até a rodada 15 não bons resultados, mas o que vale mesmo é o aprendizado. http://www.marcioribeiro.tec.br/portfolio/cartolafc2020 2 respostas Jonas Scherer image.png 1 resposta # data-governance Gilberto Titericz https://www.infoq.com/news/2020/10/training-exceeds-gpt3/?utm_source=sumome&utm_medium=twitter& utm campaign=sumome share Serves Polêmica: "Don't Choose Python as Your First Programming Language" by Shubham Pathania https://link.medium.com /h8fw0vgdDab 12 respostas E ai, qual buzzword você acha mais irritante nesse meio? Bora discutir ai nos comentários! https://medium.com/data-hackers/ufb-ultimate-fighter-buzzword-data-hackers-podcast-32-24e08cbd4ffe 6 respostas Envie uma mensagem

Apache NiFi **Roteiro**

- Motivação
- Apache NiFi
- DataFlow
- Arquitetura
- Componentes
- MiNiFi
- Registry
- DEMO







Motivação

Data Lake?





An easy to use, powerful, and reliable system to process and distribute data.

Apache NiFi



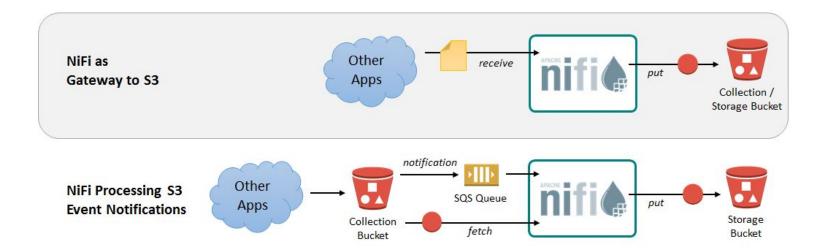


Apache NiFi **Data Flow**



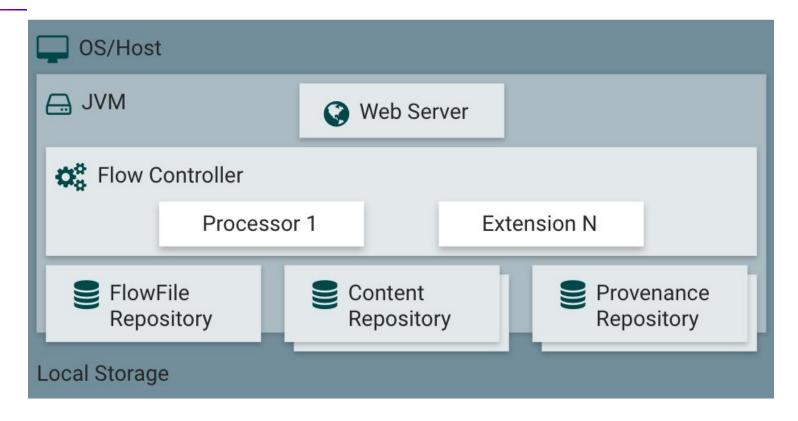


Data Flow - S3



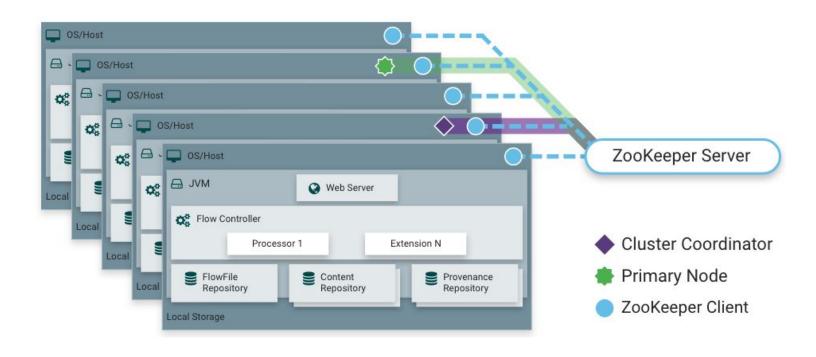


Arquitetura



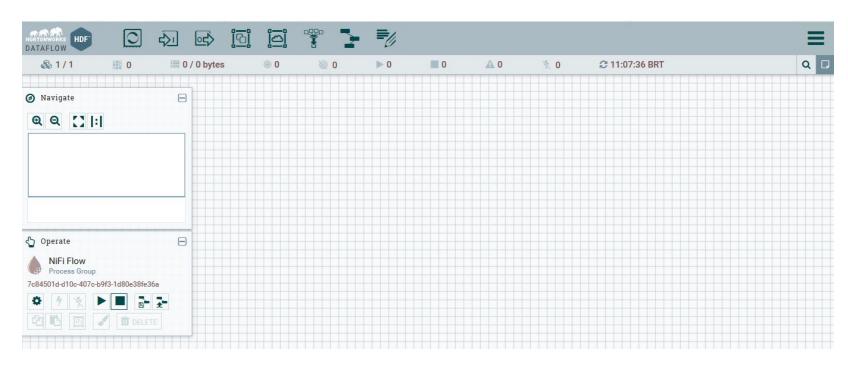


Arquitetura



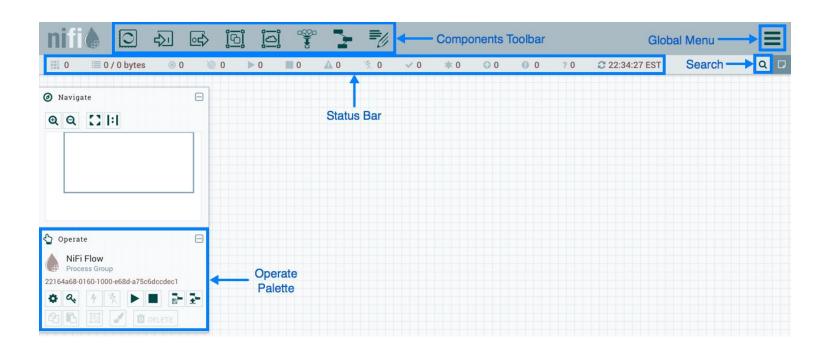


Apache NiFi Core concepts - UI



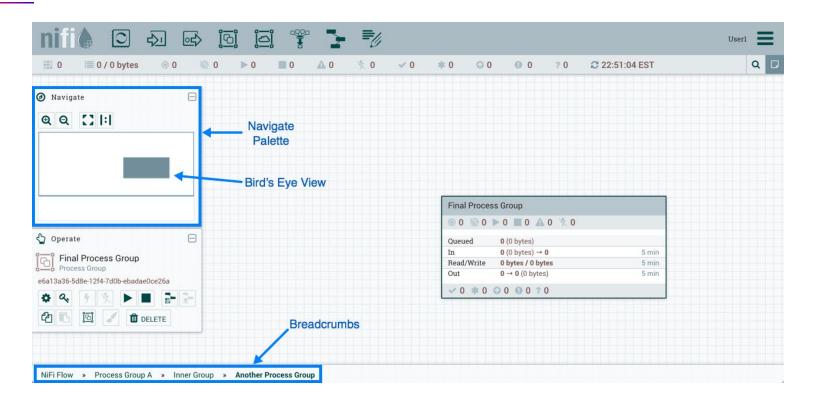


Core concepts - UI

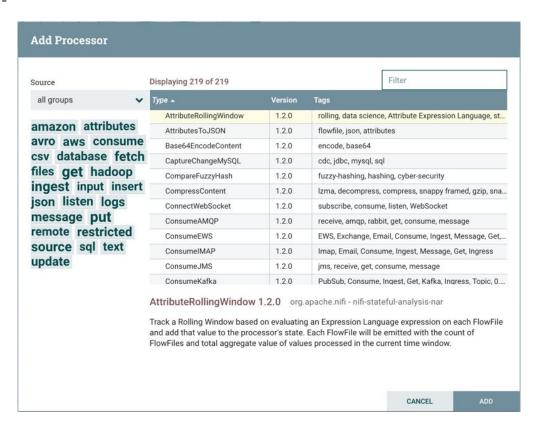




Core concepts - UI



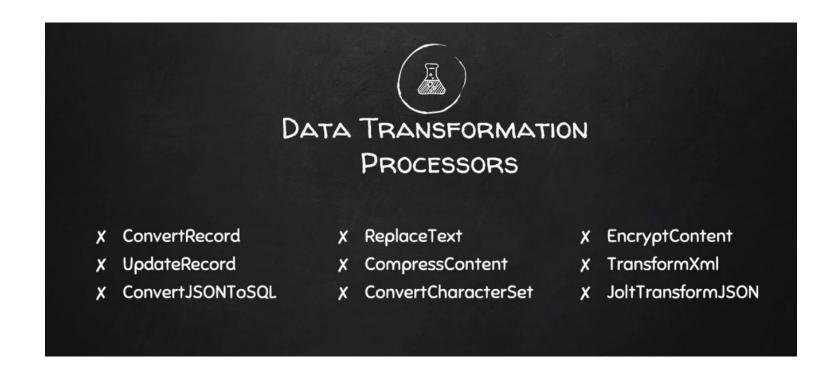




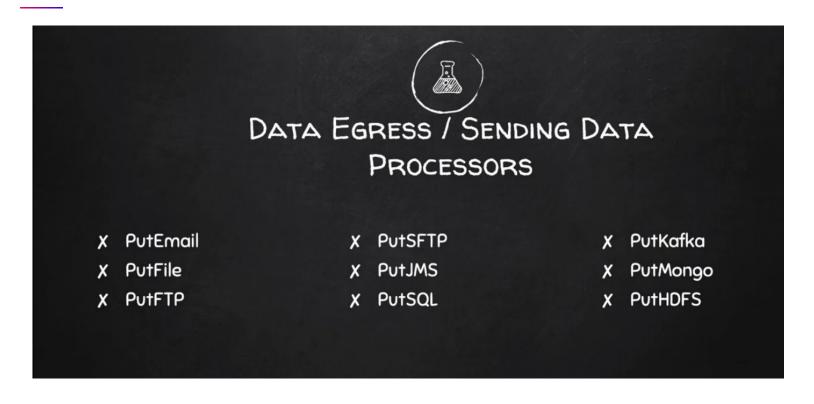








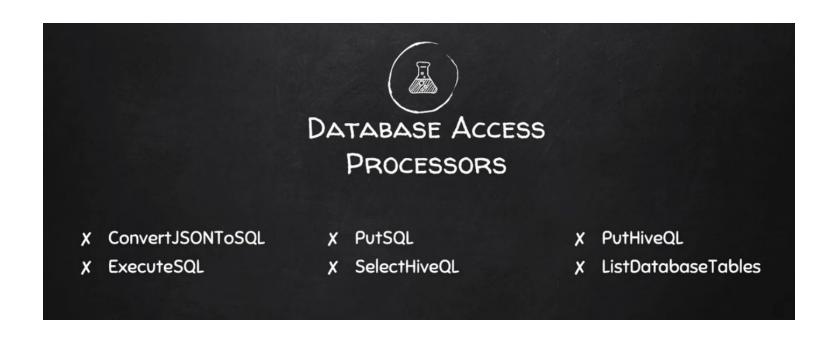








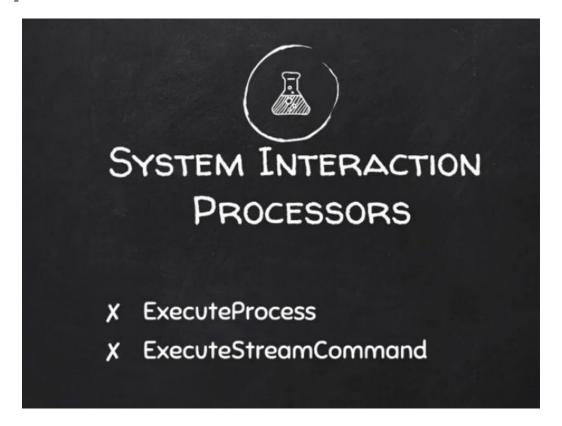








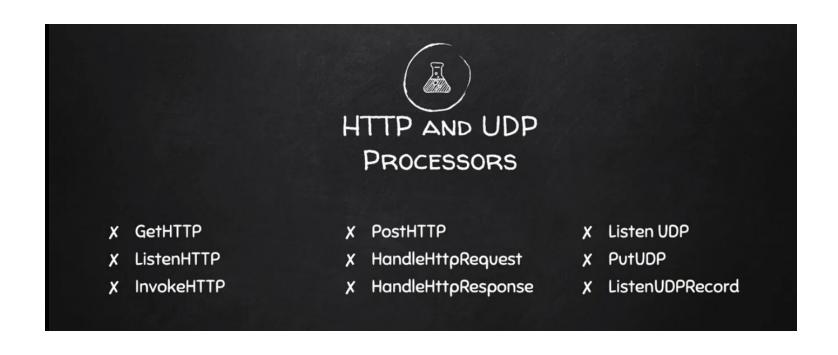








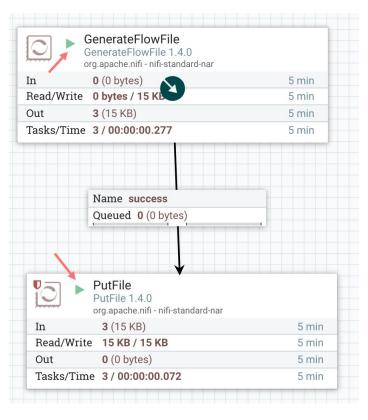




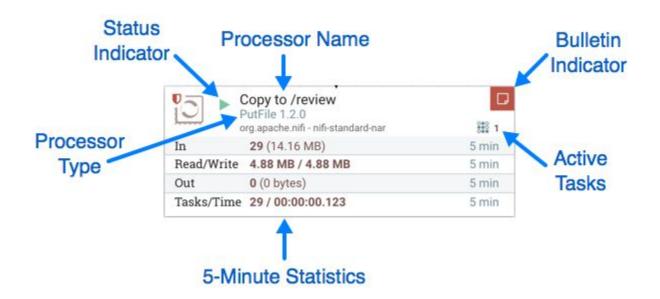




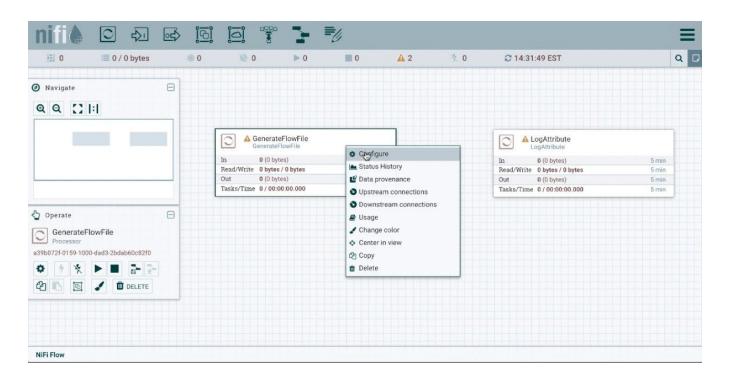










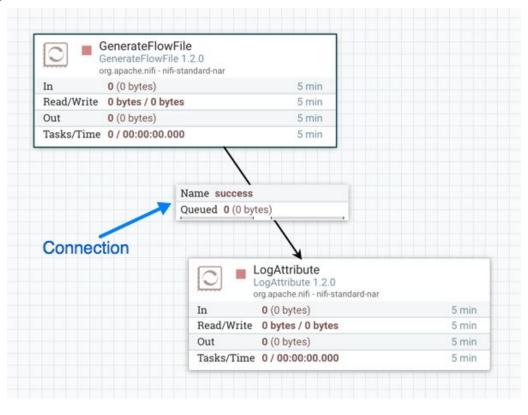




SETTINGS	SCHEDULING	PROPERTIES	COMMENTS						
heduling Strateg	y 0		Run Duration	0					
Timer driven	~		0ms 25ms	50ms	100ms	250ms	500ms	1s	2s
ncurrent Tasks	a	Run Schedule 🕖	Lower latency				Hig	her throu	ghput
1	-	0 sec							
ecution 0									
All nodes	~								



Apache NiFi **Core concepts - Connection**



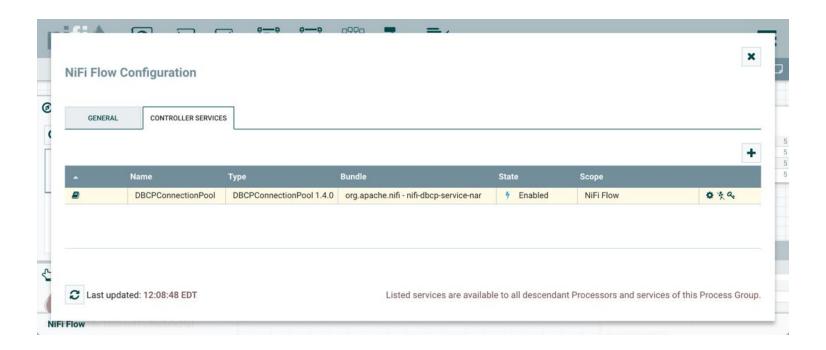


Core concepts - Connection

Configure Connectio	n						
DETAILS SETTIN	NGS						
Name	i a		Available Prioritizers 🔞				
			FirstInFirstOutPrioritizer				
Id 208bf461-0166-1000-ffff-ffffefb88d70			NewestFlowFileFirstPrioritizer				
FlowFile Expiration ②			OldestFlowFileFirstPrioritizer				
0 sec			PriorityAttributePrioritizer				
Back Pressure Object Threshold 👩	Size Threshold 🔞		Selected Prioritizers 0				
10000	1 GB						
Load Balance Strategy 0	Attribute Name 🔞						
Partition by attribute	myAttribute						
Load Balance Compression ②							
Do not compress		~					
Do not compress		0					
Compress attributes only		ø					
Compress attributes and content		0					
				CANCEL	APPLY		

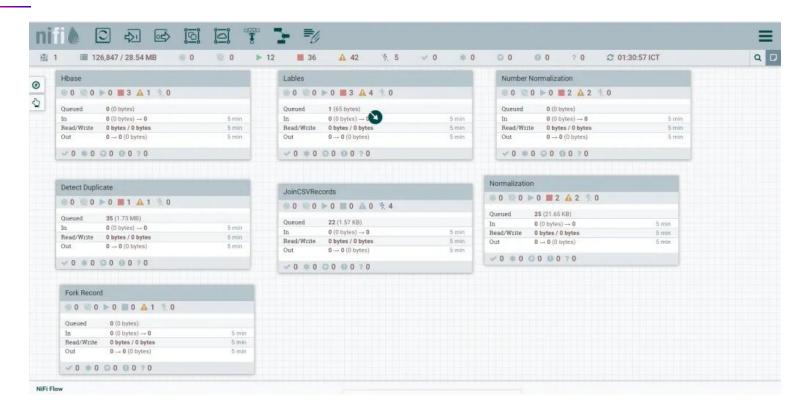


Core concepts - Controller Service



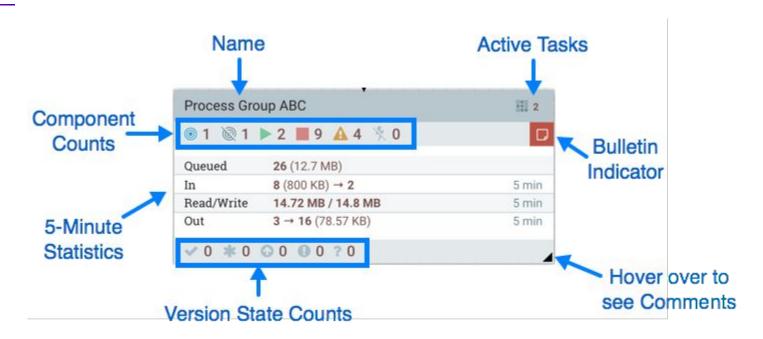


Core concepts - Process Group



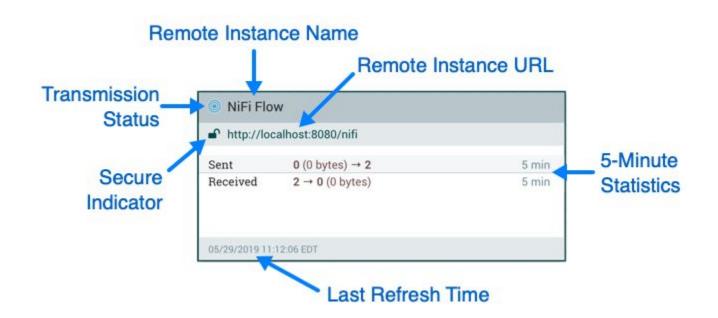


Core concepts - Process Group



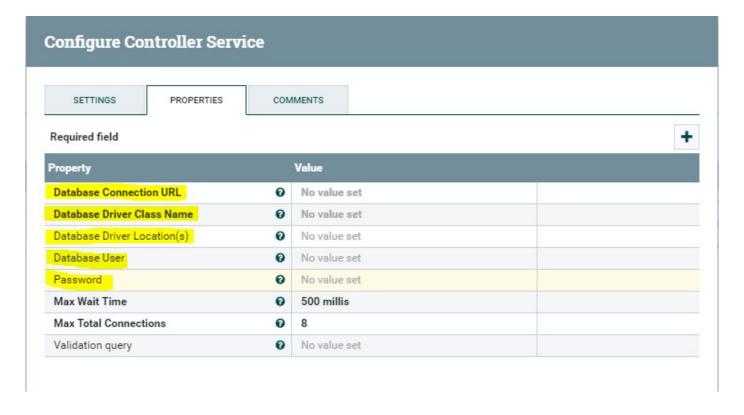


Core concepts - Remote Process Group



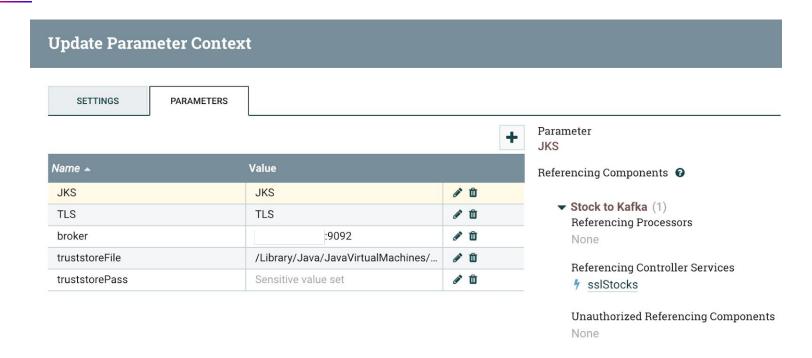


Parameter Context





Parameter Context





Parameter Context

Controller Service Details

SETTINGS PROPERTIES COMMENTS

Required field

Property		Value	
Database Connection URL	0	#{db-con-url}	→ ^
Database Driver Class Name	0	#{mysql-jdbc-driver-name}	-
Database Driver Location(s)	0	#{jdbc-jar-path}	
Kerberos Credentials Service	0	No value set	
Database User	0	#{db-user}	-
Password	0	Sensitive value set	
Max Waît Tîme	0	500 mîllîs	
Max Total Connections	0	8	
Validation query	0	No value set	



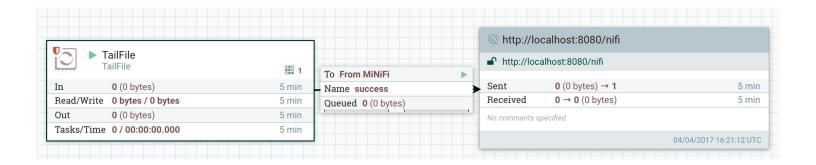




Sub-projects

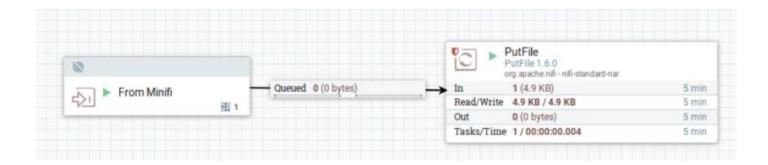


Apache NiFi **MiniFi**



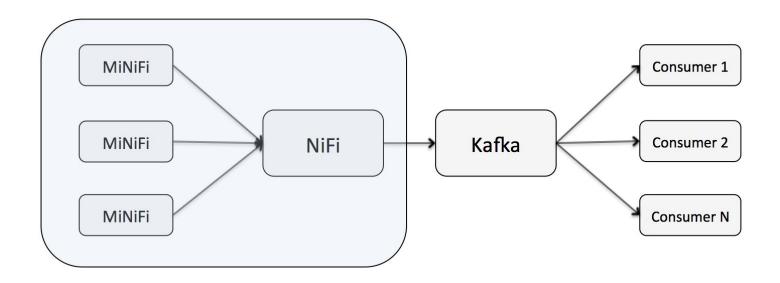


Apache NiFi **MiniFi**



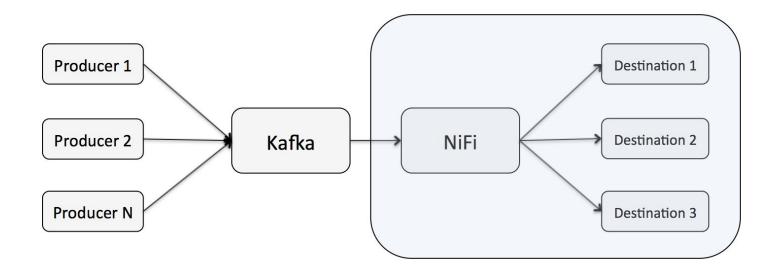


MiniFi

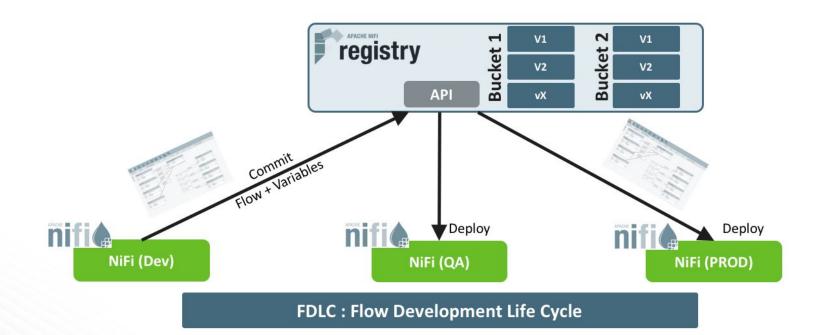




MiniFi





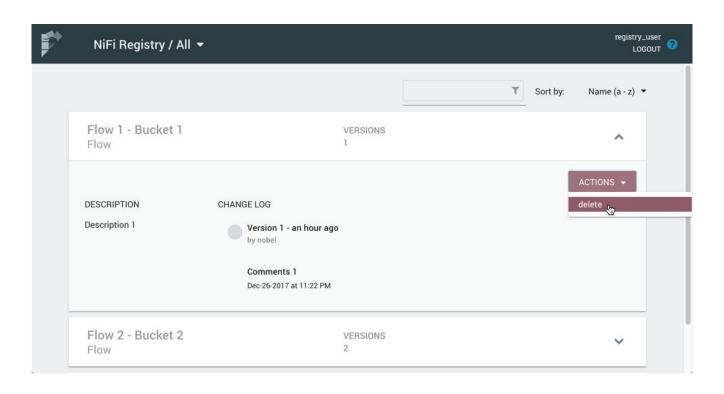


Apache NiFi Registry

Versionamento



Apache NiFi **Registry**





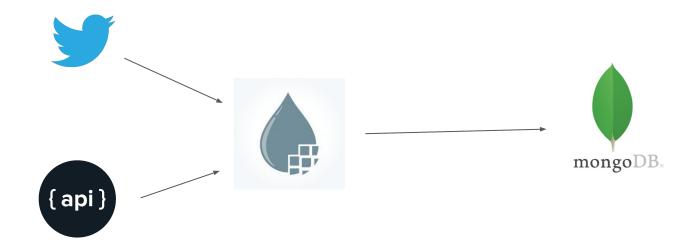
Apache NiFi **DEMO**



Hello World



DEMO 2





DEMO 3



ETL Mongo -> Postgres



Boas práticas

Summary, Take-aways, Best Practices

- Use process groups. Version them in NiFi Registry
- Get creative with site-to-site and remote process groups & ports
- Use Registry buckets to organize your flows across teams or domain
- Use labels and comments for collaboration
- For CD or automated deployments, avoid changes in adjacent versions that would require manual intervention, such as removing connects
- Automation:
 - See what's possible with NiFi CLI
 - NiPyAPI Python module
 - NiFi and NiFi Registry REST API





Onde aprender?

https://www.udemy.com/course/apache-nifi-zero-to-hero

https://www.udemy.com/course/apache-nifi-the-beginner-guide/?referralCode=3FCCF7F1DF404032EE74

https://github.com/hortonworks-gallery/nifi-templates

https://github.com/jfrazee/awesome-nifi

https://pierrevillard.com/

https://www.youtube.com/watch?v=NC3IlbjrKeA&list=PLpe6CiYAs7vTS4LG7kkvuPZEzEobvw_IR

https://www.youtube.com/watch?v=VVnFt54jUQ8

https://nifi.apache.org/docs.html



Referências

https://www.udemy.com/course/apache-nifi-zero-to-hero

https://bryanbende.com/development/2016/09/15/apache-nifi-and-apache-kafka

https://nifi.apache.org/docs/nifi-docs/

https://arb.ahgora.com.br/rodrigo.tripodi/nifi-poc/-/blob/master/docker-compose.yml

https://community.cloudera.com/t5/Community-Articles/Storing-Apache-NiFi-Versioned-Flows-in-a-

Git-Repository/ta-p/248713

https://pierrevillard.com/2018/04/09/automate-workflow-deployment-in-apache-nifi-with-the-nifi-regiestry/comment-page-1/

https://www.youtube.com/watch?v=jATV-0Oxq7o&list=PLpe6CiYAs7vQpGPQaUO4FSb7hGw62c-

HU&index=5

https://www.youtube.com/watch?v=fb0JdkwiaiM

https://www.youtube.com/watch?v=NC3IIbjrKeA&list=PLpe6CiYAs7vTS4LG7kkvuPZEzEobvw_IR





Dúvidas e sugestões



Supletivo **Apache NiFi**

#data-engineering

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