Best Practices for Developing With Data Flow on Sandbox

5-April-2023

FLOW DEV - **NEVER** DO THIS IN THE **SHARED** SANDBOX



Don't upload your private or corporate data



Don't use real usernames, passwords and the like.



All participants have access to your flows and data



Limit resource usage

FLOW DEVELOPMENT BEST PRACTICES



Name your processors/ connections



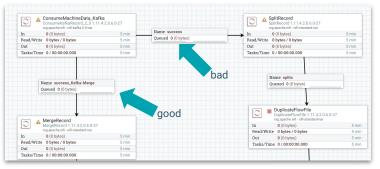
Parameterize connection information

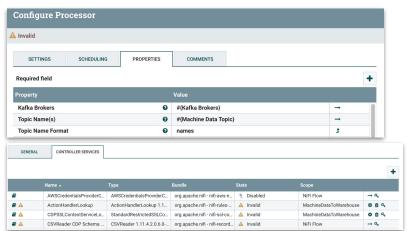


Tag sensitive properties as "sensitive"



Define controller services on process group level (except Default NiFi SSL Context Service)





FLOW DEVELOPMENT BEST PRACTICES

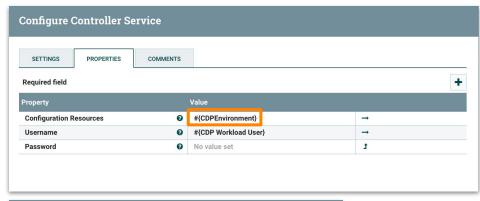
CDPEnvironment Parameter & Default SSLContextService

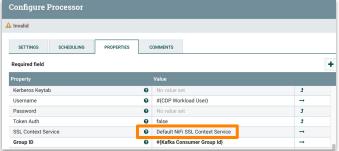
CDP Environment Parameter

- Use whenever Hadoop configuration files are needed
- •CDF detects parameter usage, obtains the Hadoop configuration files from SDX, makes them available to NiFi pods and replaces parameter value accordingly
- No copying of config files required anymore

Default NiFi SSL Context

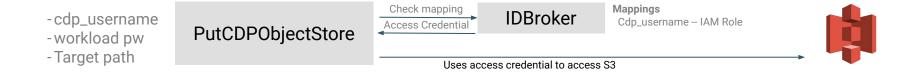
- Use whenever SSL Context Service is required to interact with CDP service in target environment
- •CDF detects reference, creates a key and truststore for the target environment and configures a Default NiFi SSL Context Service accordingly
- No more manual creation of truststores and moving around of certificates to interact with CDP services
- Default NiFi SSL Context Service must be an external controller service i.e. defined outside of the process group that's exported





FLOW MANAGEMENT CLUSTERS - CDP DATA ACCESS

Object Store Access Governed by SDX



- -cdp_username
- -workload pw
- Target path



 $\underline{\text{https://docs.cloudera.com/management-console/cloud/security-overview/topics/security_how_identity_federation_works_in_cdp.html}$