



Hortonworks Data Flow Certified NiFi Architect (HDFCNA) Exam Objectives

To be fully prepared for the HCNA exam, a candidate should be able to perform all of the exam objectives listed below:

Category	Objective	Reference
General Configuration and best practices	To test Capability to configure NiFi via Ambari or manually: <ul style="list-style-type: none"> Changing NiFi http Port Increasing/changing Heap To adjust any repo location path To update any configurations in nifi.properties 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_administration/content/system_properties.html
Basic NiFi UI Components	To test familiarity of basic NiFi UI components & Features: <ul style="list-style-type: none"> Adding configuring and starting componets Priority/Funnel/Attach Label Making sure Best practices to rename/Change Processor/Connection Name is followed Familiarity with common/everyday processors and its configuration. 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_user-guide/content/User_Interface.html
NiFi Connection:	To test familiarity with: <ul style="list-style-type: none"> Auto-Terminating a Connection Configuring Flowfile Expiration Back Pressure [object/size] Bending Connection? List/Drop data from a connection 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_user-guide/content/Connecting_Components.html
Processor and its Configuration	To test familiarity with configuring : <ul style="list-style-type: none"> Penalty Duration Yield Duration Run Schedule Scheduling Strategy Various processors to use. 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_user-guide/content/Configuring_a_Processor.html https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_user-guide/content/processor_anatomy.html
Controller Services configuration:	To test familiarity with Controller services: <ul style="list-style-type: none"> Configure Event/Timer Driven Thread Count Rename the Root Canvas Configure Controller Services for a flow 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_user-guide/content/Controller_Services.html
PG and RPG	Test Capability to : <ul style="list-style-type: none"> Creating PG(s) and add transfer data out using ports Creating RPG(s) and add transfer data out using ports 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_user-guide/content/process_group_anatomy.html https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_user-guide/content/remote_group_anatomy.html
NiFi Expression Language	Test Capability to : <ul style="list-style-type: none"> Creating custom properties using update attribute then use NEL to achieve required task Creating NiFi Custom registry and using it while configuring processors. Saving a file with a default attribute say uuid in filename Task to group common functionality or reduce number of processors 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_expression-language/content/ch_expression-language-guide.html



About Hortonworks

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Templates In NiFi	Test Capability to : <ul style="list-style-type: none"> • Create/Instantiate/Manage Template 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_user-guide/content/templates.html
NiFi Provenance	Test Capability to : <ul style="list-style-type: none"> • Search an Event and replay a file • Download and save an output/input claim to a specific directory 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_user-guide/content/data_provenance.html
Cluster Management	Test Capability to : <ul style="list-style-type: none"> • Disconnecting a node from and adding it back to cluster. • Fix cluster issue • Running a processor in flow on Primary node. 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_administration/content/clustering.html
Monitoring	Test Capability to : <ul style="list-style-type: none"> • Configure MonitorDiskUsage/MonitorMemory • Create and save provenance data using SiteToSiteProvenanceReportingTask • ControllerStatusReportingTask 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_administration/content/notification_services.html https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_getting-started-with-apache-nifi/content/monitoring-nifi.html
HDF - HDP Integration	Test Capability to write/read data to and from : <ul style="list-style-type: none"> • HDFS • Kafka • Hbase • Solr etc Using NiFi processors	https://nifi.apache.org/docs/nifi-docs/components/org.apache.nifi/nifi-hbase-nar/1.5.0/org.apache.nifi.hbase.GetHBase/index.html https://nifi.apache.org/docs/nifi-docs/components/org.apache.nifi/nifi-kafka-0-8-nar/1.5.0/org.apache.nifi.processors.kafka.GetKafka/index.html
NiFi Security - Authentication	Test Capability to : <ul style="list-style-type: none"> • Secure a cluster via SSL • Secure a cluster via LDAP • Secure a cluster via Kerberos 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_administration/content/user_authentication.html https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_security/content/ch_enabling-kerberos.html
NiFi Security - Authorization	Test Familiarity to : <ul style="list-style-type: none"> • Control user access via File-based Authorization • Control user access via Ranger 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_administration/content/multi-tenant-authorization.html
NiFi REST API	Test Capability to : <ul style="list-style-type: none"> • Control NiFi components with REST API 	https://nifi.apache.org/docs/nifi-docs/rest-api/index.html
MiNiFi	Test Capability to : <ul style="list-style-type: none"> • Use MiNiFi 	https://docs.hortonworks.com/HDPDocuments/HDF3/HDF-3.0.1.1/bk_minifi-quick-start/content/ch_minifi-quick-start.html



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