Nifi Configuration Properties: Important

The nifi.properties file in conf directory contains most of the configuration.

The commonly used properties of Apache NiFi are as follows –

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| **S.No.** | **Property name** | **Default Value** | **description** |
| 1 | nifi.flow.configuration.file | ./conf/flow.xml.gz | This property contains the path to flow.xml file. This file contains all the data flows created in NiFi. |
| 2 | nifi.flow.configuration.archive.enabled | true | This property is used to enable or disable archiving in NiFi. |
| 3 | nifi.flow.configuration.archive.dir | ./conf/archive/ | This property is used to specify the archive directory. |
| 4 | nifi.flow.configuration.archive.max.time | 30 days | This is used to specify the retention time for archiving content. |
| 5 | nifi.flow.configuration.archive.max.storage | 500 MB | it contains the maximum size of archiving directory can grow. |
| 6 | nifi.authorizer.configuration.file | ./conf/authorizers.xml | To specify the authorizer configuration file, which is used for user authorization. |
| 7 | nifi.login.identity.provider.configuration.file | ./conf/login-identity-providers.xml | This property contains the configuration of login identity providers, |
| 8 | nifi.templates.directory | ./conf/templates | This property is used to specify the directory, where NiFi templates will be stored. |
| 9 | nifi.nar.library.directory | ./lib | This property contains the path to library, which NiFi will use to load all the components using NAR files present in this lib folder. |
| 10 | nifi.nar.working.directory | ./work/nar/ | This directory will be storing the unpacked nar files, once NiFi processes them. |
| 11 | nifi.documentation.working.directory | ./work/docs/components | This directory contains the documentation of all components. |

State Management

These properties are used to store the state of the components helpful to start the processing, where components left after a restart and in the next schedule running.

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| **S.No.** | **Property name** | **Default Value** | **description** |
| 1 | nifi.state.management.configuration.file | ./conf/state-management.xml | This property contains the path to state-management.xml file. This file contains all component state present in the data flows of that NiFi instance. |
| 2 | nifi.state.management.provider.local | local-provider | It contains the ID of the local state provider. |
| 3 | nifi.state.management.provider.cluster | zk-provider | This property contains the ID of the cluster-wide state provider. This will be ignored if NiFi is not clustered but must be populated if running in a cluster. |
| 4 | nifi.state.management. embedded. zookeeper. start | false | This property specifies whether or not this instance of NiFi should run an embedded ZooKeeper server. |
| 5 | nifi.state.management. embedded. zookeeper.properties | ./conf/zookeeper.properties | This property contains the path of the properties file that provides the ZooKeeper properties to use if <nifi.state.management. embedded. zookeeper. start> is set to true. |

FlowFile Repository

Let us now look into the important details of the FlowFile repository −

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| **S.No.** | **Property name** | **Default Value** | **description** |
| 1 | nifi.flowfile.repository. implementation | org.apache.nifi. controller. repository. WriteAhead FlowFileRepository | This property is used to specify either to store the flowfiles in memory or disk. If a user want to stores the flowfiles in memory then change to "org.apache.nifi.controller. repository.VolatileFlowFileRepository". |
| 2 | nifi.flowfile.repository.directory | ./flowfile\_repository | To specify the directory for flowfile repository. |

Apache NiFi offers support to multiple tools like ambari, zookeeper for administration purposes. NiFi also provides configuration in nifi.properties file to set up HTTPS and other things for administrators.

zookeeper

NiFi itself does not handle voting process in cluster. This means when a cluster is created, all the nodes are primary and coordinator. So, zookeeper is configured to manage the voting of primary node and coordinator. The nifi.properties file contains some properties to setup zookeeper.

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| **S.No.** | **Property name** | **Default Value** | **description** |
| 1 | nifi.state.management.embedded.zookeeper. properties | ./conf/zookeeper.properties | To specify the path and name of zookeeper property file. |
| 2 | nifi.zookeeper.connect.string | empty | To specify the connection string of zookeeper. |
| 3 | nifi.zookeeper.connect.timeout | 3 secs | To specify the connection timeout of zookeeper with NiFi. |
| 4 | nifi.zookeeper.session.timeout | 3 secs | To specify the session timeout of zookeeper with NiFi. |
| 5 | nifi.zookeeper.root.node | /nifi | To specify root node for zookeeper. |
| 6 | nifi.zookeeper.auth.type | empty | To specify authentication type for zookeeper. |

Enable HTTPS

To use NiFi over HTTPS, administrators have to generate keystore and truststore and set some properties in the nifi.properties file. The TLS toolkit can be used to generate all the necessary keys to enable HTTPS in apache NiFi.

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| **S.No.** | **Property name** | **Default Value** | **description** |
| 1 | nifi.web.https.port | empty | To specify https port number. |
| 2 | nifi.web.https.network.interface.default | empty | Default interface for https in NiFi. |
| 3 | nifi.security.keystore | empty | To specify the path and file name of keystore. |
| 4 | nifi.security.keystoreType | empty | To specify the type of keystore type like JKS. |
| 5 | nifi.security.keystorePasswd | empty | To specify keystore password. |
| 6 | nifi.security.truststore | empty | To specify the path and file name of truststore. |
| 7 | nifi.security.truststoreType | empty | To specify the type of truststore type like JKS. |
| 8 | nifi.security.truststorePasswd | empty | To specify truststore password. |

Other properties for administration

There are some other properties, which are used by administrators to manage the NiFi and for its service continuity.

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| **S.No.** | **Property name** | **Default Value** | **description** |
| 1 | nifi.flowcontroller.graceful.shutdown.period | 10 sec | To specify the time to gracefully shutdown the NiFi flowcontroller. |
| 2 | nifi.administrative.yield.duration | 30 sec | To specify the administrative yield duration for NiFi. |
| 3 | nifi.authorizer.configuration.file | ./conf/authorizers.xml | To specify the path and file name of authorizer configuration file. |
| 4 | nifi.login.identity.provider.configuration.file | ./conf/login-identity-providers.xml | To specify the path and file name of login identity provider configuration file. |