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## Ambari security guide

If you plan to configure ssl for Ambari or to enable wire encryption for HDP, you must configure the Truststore for Ambari and add certificates. Ambari Server should not be working when you do this. Make these changes before you start Ambari for the first time, or take down the server before you run the Configuration Command. On the Ambari Server, create a new key store that will contain the Ambari Server.keytool -import -import -file &lt;path\_to\_the\_Ambari\_Server's\_SSL\_Certificate>-alias ambari-server -keystore ambari-server-truststoreWhen prompted to "Trust this certificate?" type yes. Configure the ambari server to use this new trust store:ambari-server setup-security Using python /usr/bin/python2.6 Security configuration options... == Choose one of the following options: [1] Enable HTTPS for Ambari server. [2] Encrypt passwords stored in the ambari.properties file. [3] Configuration Ambari kerberos JAAS configuration. [4] Setup truststore. [5] Import certificate for truststore. =if that8-688 (1-5): \*4\* Do you want to set up a reliable store [y/n] (y)? \*y\* TrustStore type [jks/ceks/pkcs12] (jks): \*jks\* Path to TrustStore file : \*&lt;path to= the= ambari-server-truststore= keystore=&gt;\* Password for TrustStore: Re-enter password: Ambari Server 'setup-security' successfully completed. Once configured, the Ambari Server must be restarted for the change to take effect.ambari-server restart The following table details the properties and values that you need to know to configure LDAP authentication. Note you will set bindAnonymously to fake (the default), you need to make sure that you have an LDAP Manager name and password configured. If you are going to use SSL, you need to make sure that you have already configured your certificate and keys. LDAP properties of the Ambari Server There are many advanced security options in Ambari. In this Apache Ambari article, we'll see one of the most widely used Ambari Security for strong authentication. So let's discuss information about setting up Ambari and Hadoop for strong authentication with Kerberos in detail. So let's start the Ambari Security Tutorial using Kerberos.Ambari Security Guide | Kerberos SecurityExplore the key features of Apache Ambari1. What is Ambari Security? As we discussed earlier, Ambari and Hadoop have many advanced security options for strong authentication, they are: Configuring Ambari and Hadoop for Kerberos.For LDAP or active directory authentication. Ambari setting for non-root. Optional: Encrypt the database and LDAP passwords. Configure SSL for Ambari: Optional.Optional: Set up two-way SSL between Ambari Server and Ambari Agents.Configure ciphers and protocols for Ambari Server: Optional.So, let's discuss information a configuração de Ambari e Hadoop para forte autenticação com&lt;/path> &lt;/path\_to\_the\_Ambari\_Server's\_SSL\_Certificate&gt; &lt;/path\_to\_the\_Ambari\_Server's\_SSL\_Certificate&gt; in detail.2. Configuring Ambari and Hadoop for KerberosIn order to understand Ambari and Hadoop Kerberos well, we will break it at different points, such as:Configuring Ambari and Hadoop for KerberosKerberos Authentication Overview.Enabling Kerberos Security.i. Hadoop Kerberos authenticationThe basis for secure access in Hadoop is to authenticate and strongly establish the identity of a user. Especially for strong authentication and identity propagation for users and services, Hadoop uses Kerberos. In definition, Kerberos is a third-party authentication mechanism, where users and services rely on a third-party Kerberos server to authenticate each other. The Kerberos server itself is known as The Key Distribution Center (KDC). There are 3 parts of Kerberos Security in a high-level database: A database of users and services (known as principals) It knows about their respective Kerberos passwords. An authentication server (AS) issues a Ticket Grant Ticket (TGT) and performs initial authentication. A Ticket Granting Server (TGS) issues subsequent service tickets based on the initial TGT. As a process, a user director requests authentication from the Authentication Server. It then gives a TGT that is encrypted using the Kerberos password of the user director, which is known only by the user's principal and the AS. Also, using your Kerberos password, the primary user decrypts the TGT locally. And to obtain TGS service tickets, the primary user can use the TGT until the ticket expires. However, service tickets are tickets that allow a director to access multiple services. Keytab is a special file that we use each time to decrypt the TGT. Basically, it consists of the authentication credentials of the resource principle. In addition, with it, a set of hosts, users, and services controlled by the Kerberos server is called reino.a. Terminologies in The Ambari SecurityTermDescriptionKey Distribution Center or KDCKDC is the trusted source for authentication in a Kerberos-enabled environment. Kerberos KDC ServerKey Distribution Center (KDC) served as a machine, or server by Kerberos KDC Server.Kerberos ClientKerberos Client is a component that authenticates any machine in the cluster, against the KDC. Principal Principal is the unique name of a user or service that simply authenticates against the KDC. The KeytabA file that involves one or more directors, as well as their keys, is keytab. RealmThe Kerberos Kingdom network involves a KDC and a number of Clients.KDC Admin AccountTo create principles and generate key guides in KDC, an administrative account used by Ambari.ii. Enabling Kerberos SecurityAmbari provides a wizard to help enable Kerberos in the cluster, whether you choose the configuration or Kerberos manual. Installing jce. Running the Kerberos Security Assistant.The important point to keep in the to enable kerberos are your prerequisites.Java Cryptography Extension (JCE)Ambari Server host. Also, make sure you don't have any technical preview services or features enabled or run before enabling Kerberos if we're running HDP 2.5. We remove the technical preview service or disable the technical preview feature. A. By installing JCE – Ambari SecurityAs a prerequisite, we must deploy the Java Cryptography Extension (JCE) security policy files to the Ambari Server and all hosts in the cluster before enabling Kerberos in the cluster. Also, make sure that we distribute and install JCE on all hosts in the cluster, including Ambari Server, if we are using Oracle JDK. Also, remember to restart the Ambari Server after installing jce. However, Open JDK distributions come with unlimited JCE strength, so we don't need JCE installation while we use open JDK.b. Running the Kerberos Security Assistant – Ambari SecurityAmbari offers several options to enable Kerberos, such as:O Existing MIT KDC. Existing active directory. Manage Kerberos directors and keytabs manually. The Kerberos Wizard requests information related to kdc, kdc administrative account, and service principles, and Ambari, choosing existing mit kdc or existing Active Directory principals. Services are restarted to authenticate against the KDC and will also be configured for Kerberos and service components. Basically, it's the automated configuration option in Ambari Security. In addition, you need to create the main ones, generate and distribute keytabs, while choosing to manage Kerberos principles and keytabs manually; including you running the Ambari Server Kerberos configuration. Ambari won't do it automatically. This is the manual configuration option in Ambari Security. So all this was at Ambari Security. I hope you like our explanation. You can also take a look at Ambari Web UI3. Conclusion: Ambari SecurityHence, in this Ambari Security Tutorial, we discuss the meaning of security in Apache Ambari. In addition, we saw the configuration of Ambari and Hadoop for Kerberos. In addition, we discuss terminologies in Kerberos Ambari Security. Tell us about your experience of reading Apache Ambari Security. I hope it helps! The Solr setting with Ambari also allows you to customize many standard parameters, which are described below. In the Ambari ui, each configuration group is a separate section that is collapsed by default. Click the group name in the ui to expand the section to view or modify the settings. This section provides configuration options for a sample collection when you start Solr for the first time. Solr configset One configuration files to use to create the collection of samples. At a minimum, this directory should include a Solr configuration file called solrconfig.xml and a schema (which can be named managed schema or schema.xml). The default is \_default, \_default, provides a minimal Solr configuration for you to customize as needed. The Available Configsets section provides more details about the available configsets and how to make your own if desired. Create sample collection This option will create a collection of samples the first time Solr starts. By default, this option is true. Sample collection name The name of the sample collection to create. The default is collection1, but this can be changed to any name you prefer. Replica number Replicas are physical copies of a fragment, and this sets the number of replicas to create when creating the sample collection. The default is 1, which means that 1 copy of the collection will be placed on each node. Number of fragments Fragments are logical partitions of the Solr index, distributed throughout the cluster. This setting defines how many fragments to split an index. The default is 2, which means that the collection will be divided into 2



by such a slow Solr query? The reason is that Spark likes to read all the lines before performing any operation on a DataFrame. So when you ask SparkSQL to count the lines in a DataFrame, the spark-solr has to read all the corresponding Solr documents and then count the lines in the RDD. If you are just exploring a Solr collection from Spark and need to know the number of matching rows for a query, you can use the SolrQuerySupport.getNumDocsFromSolr utility function. The lines option defines the page size, but all matching rows are read from Solr for each query. So if your query matches many documents in Solr, then Spark is reading all 10 docs per request. Use the option sample\_seed to limit the size of the results returned from Solr. com.lucidworks.spark.SparkApp provides a simple framework for implementing Spark applications in Java. The class prevents you from having to duplicate the boiler code needed to run a Spark application, giving you more time to focus on your application's business logic. To take advantage of this framework, you need to develop a concrete class that implements RDDProcessor or extends the StreamProcessor depending on the type of application you are developing. Implement the com.lucidworks.spark.SparkApp\$RDDProcessor interface for building a Spark application that operates on a JavaRDD, such as one taken from a Solr query (see SolrQueryProcessor as an example). Extend the abstract class with.Lucidworks.spark.SparkApp\$StreamProcessor to create a Spark streaming application. See com.lucidworks.spark.example.streaming.oneusagov.OneUsaGovStreamProcessor or com.lucidworks.spark.example.streaming.TwitterToSolrStreamProcessor for examples of how to write a StreamProcessor. For information on Solr's safety, see: Protecting Solr. The Kerberos config be set via system param java.security.auth.login.config on extraJavaOptions for executor and driver. The SparkApp framework (in spark-solr) allows you to pass the path to a JAAS authentication configuration file using the Option. For example, if you need to authenticate using the main Kerberos solr, you need to create a JAAS configuration file called jaas-client.conf that defines the location of your Kerberos key file, such as: Client { com.sun.security.auth.module.Krb5LoginModule required to useKeyTab=true keyTab=/keytabs/solr.keytabKey store=true useTicketCache=true debug=true;}; To use this setting to authenticate to Solr, just pass the path to jaas-client.conf created above using the -solr.JaasAuthConfig option, such as: spark-submit -master yarn-server\ -class com.lucidworks.spark.SparkApp \ \$SPARK\_SOLR\_PROJECT/target/spark-solr-\${VERSION}-shaded.jar \ hdfs-to-solr -zkHost \$ZK -spark-hdf Ss\-hdfsPath /user/spark/testdata/syn\_sample\_50K\-solrJaasAuthConfig=/path/to/jaas-client.conf Basic Auth can be configured via basicauth system properties or solr.httpclient.config. These system properties must be set on driver and executor JVMs ./bin/spark-shell --master site[\*] --jars ~/Git/spark-solr/target/spark-solr-3.0.1-SNAPSHOT-shaded.jar --conf 'spark.driver.extraJavaOptions=-Dbasicauth=solr:SolrRocks' Using solr.httpclient.config ./bin/spark-shell --master site[\*] --jars ~/Git/spark-solr/target/spark-solr-3.0.1-SNAPSHOT-shaded.jar --conf 'spark.driver.extraJavaOptions=-Dsolr.httpclient.config=/Users/kiran/spark/spark-2.1.0-bin-hadoop2.7/auth.txt' httpBasicAuthUser=solr httpBasicAuthPassword=SolrRocks httpBasicAuthPassword=SolrRocks

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