Integrating NiFi with Kerberos Hands On

What is Kerberos?

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Step 1: Clone the repo for demo kerberos setup

Step 2: Create user

Step 3: Build kerberos setup

Step 4: Generate TLS for nifi

Step 5: Update nifi.properties

Step 6: Update login-identity-providers.xml

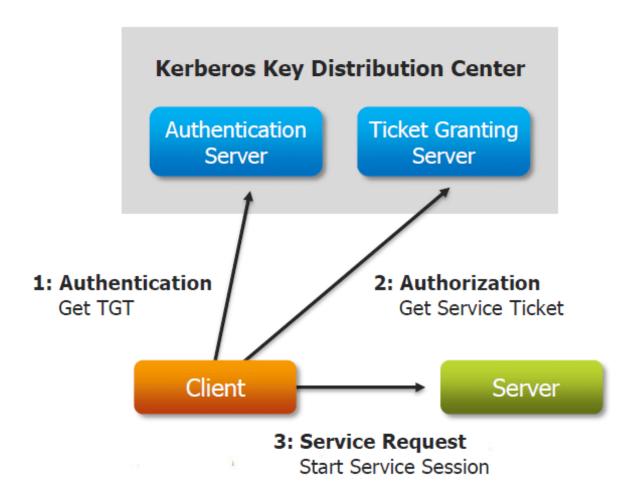
Step 7: Update authorizers.xml

Sources

What is Kerberos?



Kerberos is a network authentication protocol designed to provide strong authentication for client/server applications by means of secret-key cryptography. Kerberos ensures the highest level of security to network resources. The Kerberos protocol name is based on the three- headed dog figure from Greek mythology known as Kerberos.



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Step 1: Clone the repo for demo kerberos setup

git clone https://github.com/tillt/docker-kdc.git
cd docker-kdc

Step 2: Create user

At the root of this directory create a file named *kdc.json* which will be the config file used when setting up the KDC. Make sure the DOMAIN is resolvable. If not, simply add entries in /etc/hosts

Step 3: Build kerberos setup

```
./kdc build
./kdc start
$(./kdc shellinit)
```

Step 4: Generate TLS for nifi

```
./tls-toolkit.sh standalone -n 'nifi-example.com' -o target-nif:
```

Step 5: Update nifi.properties

```
nifi.security.user.login.identity.provider=kerberos-provider
nifi.kerberos.krb5.file=/path/to/docker-kdc/krb5.conf
nifi.kerberos.spnego.principal=HTTP/nifi.apache.org@NIFI.APACHE
nifi.kerberos.spnego.keytab.location=/path/to/docker-kdc/krb5.kg
```

Step 6: Update login-identity-providers.xml

Step 7: Update authorizers.xml

Sources

Apache NiFi 1.0.0 - Kerberos Authentication

Apache NiFi supports several authentication mechanisms and provides a pluggable authentication model, allowing

anyone to implement a custom identity provider. By default, NiFi always supports two-way SSL as an

https://bryanbende.com/development/2016/08/31/apache-nifi-1.0.0-kerberos-authentication