

For simplicity I maintained the same password as the KDC database above. This command will read the kDC/KRB5.conf and pick the correctly configure REALM

```
# kadmin.local -q "addprinc admin/admin"
Authenticating as principal root/admin@TOKYO.COM with password.
WARNING: no policy specified for admin/admin@TOKYO.COM; defaulting to no policy
Enter password for principal "admin/admin@TOKYO.COM": welcome1
Re-enter password for principal "admin/admin@TOKYO.COM": welcome1
Principal "admin/admin@TOKYO.COM" created.
```

Note: **admin/admin@TOKYO.COM** and password **welcome1** this will be used in the Ambari UI to kerberize the cluster.

You can create additional admin user Bashir here in case as a backup

```
kadmin.local -q "addprinc bashir/admin"
Authenticating as principal root/admin@TOKYO.COM with password. WARNING: no policy specified for bashir/admin@TOKYO.COM; defaulting to no
policy Enter password for principal "bashir/admin@TOKYO.COM": Re-enter password for principal "bashir/admin@TOKYO.COM": Principal
"bashir/admin@TOKYO.COM" created.
```

## Check the principals in the newly created KDC database

You will notice the below are the default principals including **bashir** the backup KDC admin

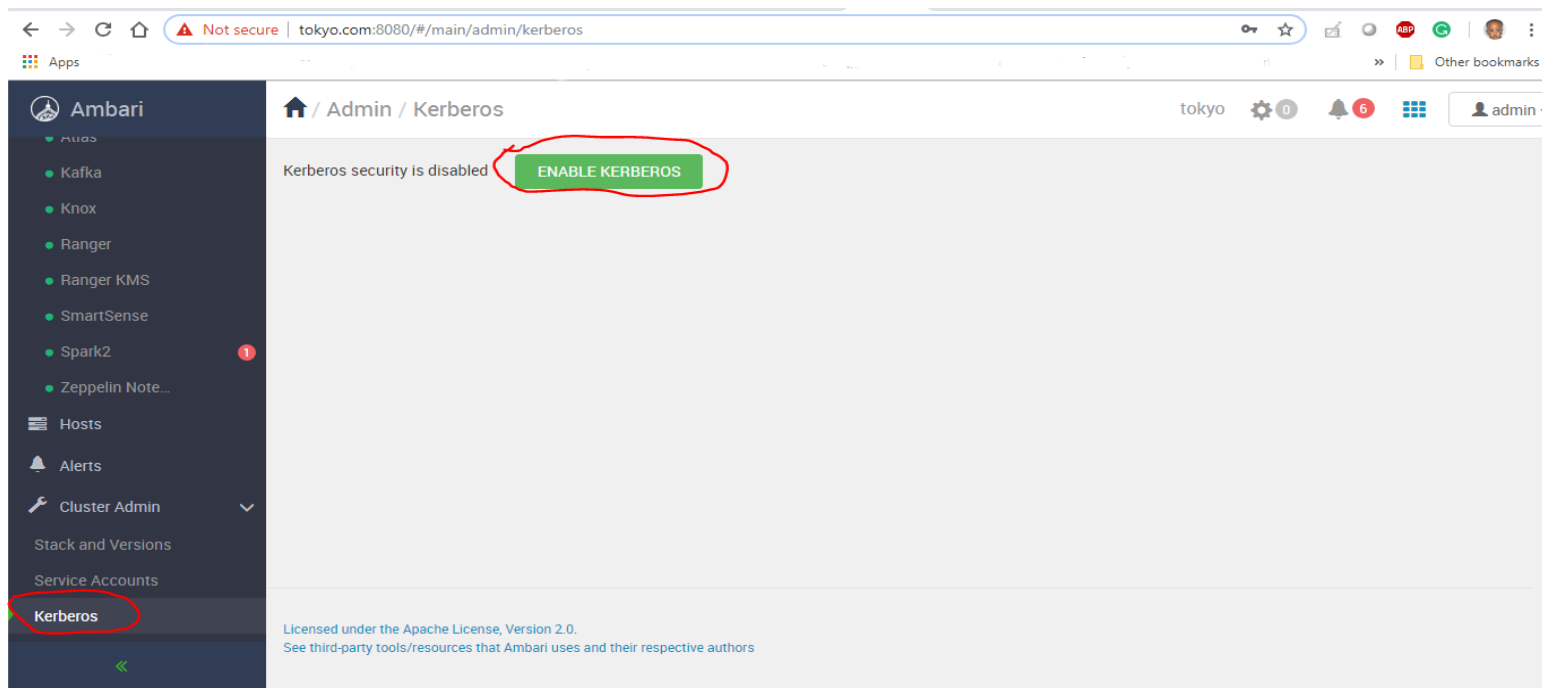
```
# kadmin.local
Authenticating as principal root/admin@TOKYO.COM with password.
kadmin.local: listprincs
K/M@TOKYO.COM
admin/admin@TOKYO.COM
bashir/admin@TOKYO.COM
kadmin/admin@TOKYO.COM
kadmin/changepw@TOKYO.COM
kadmin/tokyo.com@TOKYO.COM
kiprop/tokyo.com@TOKYO.COM
```

krbtgt/TOKYO.COM@TOKYO.COM

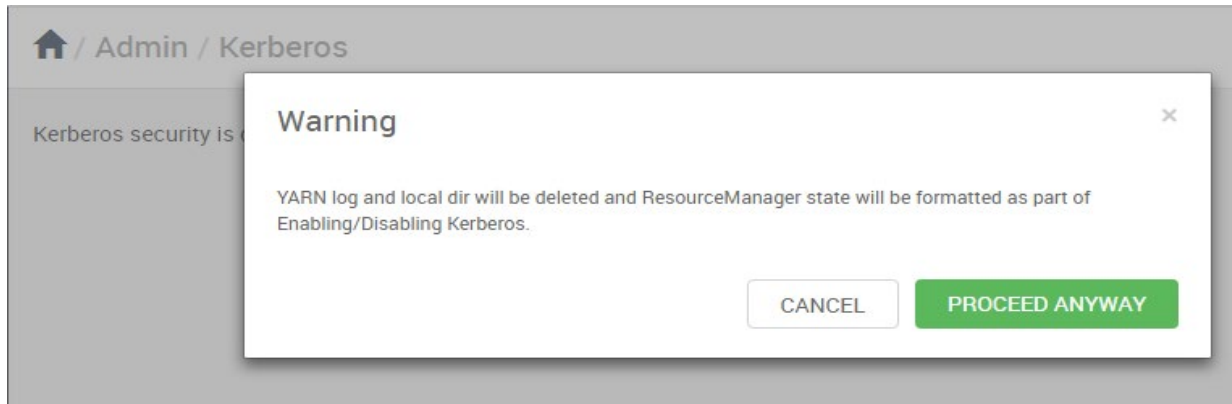
The KDC database looks healthy

## Switch to the Ambari UI

Now the Kerberos database and admin tools are set switch to the Ambari UI to launch the kerberization, ensure all the installed HDP components are running and you dashboard is **GREEN**



Accept the Warning and proceed



Check the 3 boxes it's imperative that these conditions are all satisfied !!! for Kerberos to run successfully

Click **NEXT**

## Enable Kerberos Wizard

- 1 Get Started
- 2 Configure Kerberos
- 3 Install and Test Kerberos Client
- 4 Configure Identities
- 5 Confirm Configuration
- 6 Stop Services
- 7 Kerberize Cluster
- 8 Start and Test Services

### Get Started

Welcome to the Ambari Security Wizard. Use this wizard to enable kerberos security in your cluster.  
Let's get started.

Note: This process requires services to be restarted and cluster downtime. As well, depending on the options you select, might require support from your Security administrators. Please plan accordingly.

What type of KDC do you plan on using?

- Existing MIT KDC
- Existing Active Directory
- Existing IPA
- Manage Kerberos principals and keytabs manually

Existing MIT KDC:

Following prerequisites needs to be checked to progress ahead in the wizard.

- Ambari Server and cluster hosts have network access to both the KDC and KDC admin hosts.
- KDC administrative credentials are on-hand.
- The Java Cryptography Extensions (JCE) have been setup on the Ambari Server host and all hosts in the cluster.

## Enable Kerberos Wizard


- 5 Confirm Configuration
- 6 Stop Services
- 7 Kerberize Cluster
- 8 Start and Test Services

KDC type Existing MIT KDC

KDC hosts

Realm name

Domains

CONNECTION OK 

### Kadmin

Kadmin host

Admin principal

Admin password

Save Admin Credentials  

## Enable Kerberos Wizard



- ✓ Get Started
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### Install and Test Kerberos Client

Kerberos service has been installed and tested successfully.

✓ [Install Kerberos Client](#)

✓ [Test Kerberos Client](#)

← BACK

NEXT →

Click NEXT to proceed

## Enable Kerberos Wizard

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### Configure Identities

Configure principal name and keytab location for service users and hadoop service components.

GENERAL ADVANCED

#### Global

Keytab Dir	<input type="text" value="/etc/security/keytabs"/>	C
Realm	<input type="text" value="TOKYO.COM"/>	
Additional Realms	<input type="text" value="(Optional)"/>	
Principal Suffix	<input type="text" value="-\${cluster_name toLower()}"/>	C
Spnego Keytab	<input type="text" value="\${keytab_dir}/spnego.service.keytab"/>	C
Spnego Principal	<input type="text" value="HTTP/_HOST@\${realm}"/>	C

Click NEXT to proceed You have an option to download a CSV of the keytabs and later run it manually

## Enable Kerberos Wizard

The screenshot shows the 'Confirm Configuration' step of the 'Enable Kerberos Wizard'. On the left is a vertical sidebar with steps 1 through 8. Step 5, 'Confirm Configuration', is highlighted with a green circle. The main content area has the title 'Confirm Configuration' and a sub-header 'Please review the configuration before continuing the setup process'. Below this is a text block: 'Using the **Download CSV** button, you can download a csv file which contains a list of the principals and keytabs that will automatically be created by Ambari.' A light gray box contains configuration details: 'Executable path: /usr/bin, /usr/kerberos/bin, /usr/sbin, /usr/lib/mit/bin, /usr/lib/mit/sbin', 'KDC Hosts: tokyo.com', 'KDC Type: Existing MIT KDC', and 'Realm Name: TOKYO.COM'. The 'Realm Name' is circled in red. At the bottom right of the main area are two buttons: 'EXIT WIZARD' and 'DOWNLOAD CSV', both circled in red. Below the main area is a '← BACK' button and a 'NEXT →' button, with the 'NEXT' button also circled in red.

**Confirm Configuration**

Please review the configuration before continuing the setup process

Using the **Download CSV** button, you can download a csv file which contains a list of the principals and keytabs that will automatically be created by Ambari.

**Executable path:** /usr/bin, /usr/kerberos/bin, /usr/sbin, /usr/lib/mit/bin, /usr/lib/mit/sbin

**KDC Hosts:** tokyo.com

**KDC Type:** Existing MIT KDC

**Realm Name:** TOKYO.COM

EXIT WIZARD    DOWNLOAD CSV

← BACK    NEXT →

Click NEXT to proceed

Stop services