



REL-ID Setup

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1. Deployment Steps

1. Please make sure that following are in order
 - a. port 443 is open so that REL-ID Server can accept and serve API SDK client requests
 - b. port 9080 is open so that GM can be accessed using Browser

2. Copy uniken-apisdk.tgz to /usr/local/ folder

3. To extract the content

Location: cd /usr/local/

Run command: tar -xvf uniken-apisdk.tgz

```
[root@relid local]#  
[root@relid local]# tar -xvf uniken-apisdk.tgz  
uniken/
```

4. Set path variables

Location: cd /usr/local/

Run command: ./init-relid-paths.sh

```
[root@relid local]# cd /usr/local/uniken  
[root@relid uniken]# ./init-relid-paths.sh  
[root@relid uniken]#
```

5. Install RabbitMQ

Location: cd /usr/local/uniken/queue/RabbitMQ-Setup/

Run command: ./setup_rabbitmq.sh

```
[root@localhost RabbitMQ-Setup]# ./setup_rabbitmq.sh
Uninstalling RabbitMQ...
Stopping rabbitmq-server (via systemctl): [ OK ]
RabbitMQ uninstalled successfully
Uninstalling Erlang...
Erlang uninstalled successfully
Installing Erlang...
Preparing... ##### [100%]
Updating / installing...
 1:erlang-18.2-1.el6 ##### [100%]
Erlang installed successfully
Installing RabbitMQ...
warning: rabbitmq-server-3.6.1-1.noarch.rpm: Header V4 DSA/SHA1 Signature, key ID 056e8e56: NOKEY
Preparing... ##### [100%]
Updating / installing...
 1:rabbitmq-server-3.6.1-1 ##### [100%]
RabbitMQ installed successfully
Resetting RabbitMQ
Starting rabbitmq-server (via systemctl): [ OK ]
Stopping node rabbit@localhost ...
Resetting node rabbit@localhost ...
Starting node rabbit@localhost ...
Plugin configuration unchanged.

Applying plugin configuration to rabbit@localhost... nothing to do.
Plugin configuration unchanged.

Applying plugin configuration to rabbit@localhost... nothing to do.
Creating user "mqadmin" ...
Setting permissions for user "mqadmin" in vhost "/" ...
Creating user "unikenadmin" ...
Setting permissions for user "unikenadmin" in vhost "/" ...
Setting tags for user "unikenadmin" to [administrator] ...
Stopping rabbitmq-server (via systemctl): [ OK ]
RabbitMQ Reset completed successfully
[root@localhost RabbitMQ-Setup]#
```

6. Start All Services

Location: `cd /usr/local/uniken/`

Run Command: `./start-all.sh`

```
[root@relid RabbitMQ-Setup]# cd /usr/local/uniken
[root@relid uniken]# ./start-all.sh
about to fork child process, waiting until server is ready for connections.
forked process: 4065
child process started successfully, parent exiting
Thu Mar 31 16:02:25 IST 2016
Starting rabbitmq-server (via systemctl): [ OK ]
Thu Mar 31 16:04:20 IST 2016
Using CATALINA_BASE: /usr/local/uniken/webapps/RelIdWebGM
Using CATALINA_HOME: /usr/local/uniken/webapps/TBUtilities/apache-tomcat
Using CATALINA_TMPDIR: /usr/local/uniken/webapps/RelIdWebGM/temp
Using JRE_HOME: /usr/local/uniken/webapps/TBUtilities/java
Using CLASSPATH: :/usr/local/uniken/webapps/TBLibrary/aopalliance-1.0.jar
```

```
usr/local/uniken/webapps/TBUtilities/apache-tomcat/bin/tomcat-juli.jar
Tomcat started.
pid file exist but no process is started
NotificationPusher process is being started
isa process is being started
Blaze adapter process is being started
Blaze server process is being started
BW Adapter process is being started
Blaze-Web-Services process is being started
Blaze Scheduler process is being started
hma process is being started
[root@relid uniken]#
```

7. URL to access GM in a browser is <http://SERVER-IP:9080/GM/>
8. After configuration of cluster and node details in GM (using Topology Management), download node_details.dt file and place it in folder

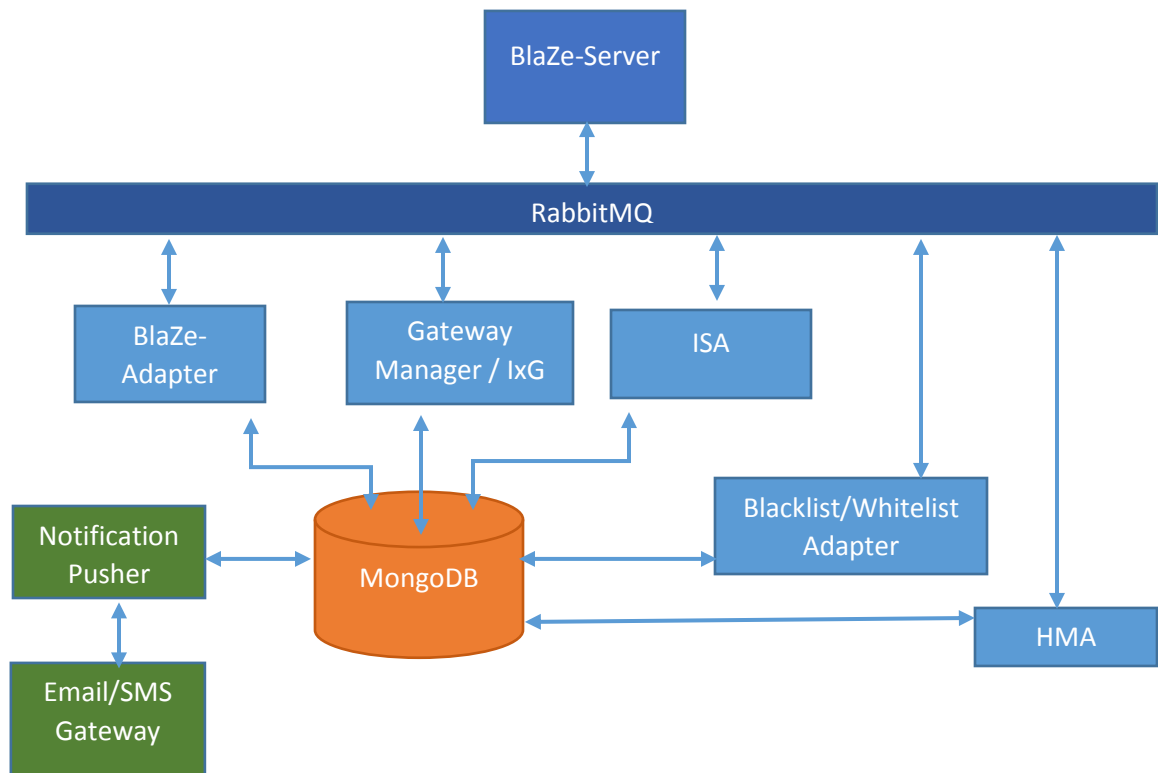
Location: /usr/local/uniken/blazeadapter/

9. Restart All Services

Location: cd /usr/local/uniken/

Run Command: ./restart-services.sh

2. Block diagram of REL-ID Core Deployment



3. REL-ID Module Details

1. **RabbitMQ** – Queue used by modules to interact with one another
2. **MongoDB** – Database store
3. **GatewayManager (GM/IxG)** – This module provides User Interface to administer the system.
4. **BlaZe-Server** – This Module accepts all incoming requests from Client Components. This is the single point of entry to the system.
5. **BlaZe-Adapter** – Business logic is defined in this module. This module picks messages from RabbitMQ. Messages for this module are queued by BlaZe-Server and GM.
6. **ISA** – Business logic related to User Authentication and User State machine is managed by this module.
7. **Blacklist/Whitelist Adapter (BWAdapter)** – This module deals with performing Blacklist and Whitelist checks for incoming request from Client. Blacklist and Whitelist are configured using GM.
8. **Health Monitoring Adapter (HMA)** - This module captures system parameters (CPU/Memory) on a periodic basis. Data generated by this module is visible in GM Dashboard.
9. **Notification Pusher** – This module collects Email or SMS notifications from database and queues it for delivery with Email or SMS Gateway respectively.
10. **BlaZe-Scheduler** – This Module runs as a background service and archives old data to an archive area.

4. Deployment, Service Management and Log Location Details

Module Name	Deployment Folder	Start Script	Stop Script	Restart Script	Verify Script	Log Location
RabbitMQ	/usr/local/uniken/queue/	./start-RabbitMQ.sh	./stop-RabbitMQ.sh	./restart-RabbitMQ.sh	./verify-RabbitMQ.sh	/var/log/rabbitmq/
MongoDB	/usr/local/uniken/database/	./start-MongoDB.sh	./stop-MongoDB.sh	./restart-MongoDB.sh	./verify-MongoDB.sh	/usr/local/uniken/database/log/
Gateway Manager (GM/IxG)	/usr/local/uniken/webapps/	./start-apache-tomcat-gm	./stop-apache-tomcat-gm.sh	./restart-apache-tomcat-gm	./verify-apache-tomcat-gm.sh	/usr/local/uniken/webapps/webapplogs/GM/ /usr/local/uniken/webapps/webapplogs/IxG/
BlaZe-Server	/usr/local/uniken/blazeserver/	./start-blazeserver.sh	./stop-blazeserver.sh	./restart-blazeserver.sh	./verify-blazeserver.sh	/usr/local/uniken/blazeserver/logs/BlaZe.log
BlaZe-Adapter	/usr/local/uniken/blazeadapter/	./start-blazeadapter.sh	./stop-blazeadapter.sh	./restart-blazeadapter.sh	./verify-blazeadapter.sh	/usr/local/uniken/blazeadapter/logs/BlaZe-Adapter.log
ISA	/usr/local/uniken/isa/	./start-isa.sh	./stop-isa.sh	./restart-isa.sh	./verify-isa.sh	/usr/local/uniken/isa/logs/isa.log
Blacklist/Whitelist Adapter (BWAdapter)	/usr/local/uniken/bwadapter/	./start-bwadapter.sh	./stop-bwadapter.sh	./restart-bwadapter.sh	./verify-bwadapter.sh	/usr/local/uniken/bwadapter/logs/BW-Adapter.log
Health Monitoring Adapter (HMA)	/usr/local/uniken/hma/	./start-hma.sh	./stop-hma.sh	./restart-hma.sh	./verify-hma.sh	/usr/local/uniken/hma/logs/hma- <YYYYMMDDhhmmss>.log
Notification Pusher	/usr/local/uniken/notificationpusher/	./start-notificationpusher.sh	./stop-notificationpusher.sh	./restart-notificationpusher.sh	./verify-notificationpusher.sh	/usr/local/uniken/notificationpusher/NotificationPusher.log
BlaZe-Scheduler	/usr/local/uniken/blazescheduler/	./start-blazescheduler.sh	./stop-blazescheduler.sh	./restart-blazescheduler.sh	./verify-blazescheduler.sh	/usr/local/uniken/blazescheduler/logs/BlaZe-Scheduler.log



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