Simple demo

This is the simplest demo, showing how to run midPoint container along with the default repository based on TIER-provided MariaDB Docker image.

Starting

```
$ cd demo/simple
$ docker-compose up
```

After `docker-compose up` command successfully finishes you should see something like this on the console:

```
midpoint_server_1  | midpoint;midpoint.log;demo;;2018-09-20 16:25:22,191 [] [main] INFO (org.springframework.
boot.web.embedded.tomcat.TomcatWebServer): Tomcat started on port(s): 8080 (http) 9090 (http) with context path
'/midpoint'
midpoint_server_1  | midpoint;midpoint.log;demo;;2018-09-20 16:25:22,209 [] [main] INFO (com.evolveum.midpoint.
web.boot.MidPointSpringApplication): Started MidPointSpringApplication in 60.512 seconds (JVM running for
61.688)
```

Now you can log into midPoint using https://localhost:8443/midpoint URL, with an user of `administrator` and a password of `5ecr3t`.

Containers

The `demo/simple` composition contains two containers:

Container name	Description
`simple_midpoint_server_1`	This is the standard container providing midPoint functionality. It contains standalone Tomcat running midPoint application, reverse Apache proxy, and TIER Beacon.
`simple_midpoint_data_1`	This container hosts midPoint repository. It contains the MariaDB database created from the TIER MariaDB image.

You can replace `midpoint-data` with your own Docker container, or even external repository implementation - either on-premises or in cloud. See Alternative repository demonstration section below for more information.

Communication

The containers publish the following TCP ports. (*Port mapped to localhost* denotes the mapping of container port to the host port where it can be reached from the outside.)

Container	Port number	Port mapped to localhost	Description
`simple_midpoint_server_1`	443	8443	HTTPS port to be used to connect to midPoint application
	80	-	HTTP port to be used to connect to midPoint application
	9090	-	Tomcat AJP port used for Apache httpd Tomcat communication
`simple_midpoint_data_1`	3306	3306	Port used to connect to the default MariaDB repository

Docker volumes

The following volumes are created to persist data and other relevant files.

Volume name	Description	Used by container
`simple_midpoint_home`	The midPoint home directory. Contains schema extensions, logs, custom libraries, custom ConnId connectors, and so on.	`simple_midpoint_server_1`
`simple_midpoint_data`	Volume hosting MariaDB database used by midPoint.	`simple_midpoint_data_1`

| simple_midpoint_mysql | Volume hosting `/var/lib/mysql` directory. | simple_midpoint_data_1 |

Configuring the composition

The following configuration properties are supported. Please refer to the main documentation page for their explanation.

Property	Default value
ENV	demo
USERTOKEN	
REPO_DATABASE_TYPE	mariadb
REPO_JDBC_URL	default
REPO_HOST	midpoint_data
REPO_PORT	default
REPO_DATABASE	registry
REPO_USER	registry_user
REPO_MISSING_SCHEMA_ACTION	create
REPO_UPGRADEABLE_SCHEMA_ACTION	stop
REPO_SCHEMA_VERSION_IF_MISSING	
REPO_SCHEMA_VARIANT	
MP_MEM_MAX	2048m
MP_MEM_INIT	1024m
MP_JAVA_OPTS	
TIER_BEACON_OPT_OUT	
TIMEZONE	UTC

You can tailor these to your needs.

The following Docker secrets are used:

Secret	Location
mp_database_password.txt	configs-and-secrets/midpoint/application/database_password.txt
mp_keystore_password.txt	configs-and-secrets/midpoint/application/keystore_password.txt
mp_host-key.pem	configs-and-secrets/midpoint/httpd/host-key.pem

The following configuration files are used:

Target file	Source location
/etc/pki/tls/certs/host-cert.pem	configs-and-secrets/midpoint/httpd/host-cert.pem
/etc/pki/tls/certs/cachain.pem	configs-and-secrets/midpoint/httpd/host-cert.pem

You can modify or replace these files as needed.