Install & Configure the Data VM

The em-api is deployed to tomcat on a server. Apache is used to forward requests.

Prerequisites

- Apache 2.4.7
- Tomcat 8
- Oracle JDK 7

Configuration Files

1. **/em-api/api-rest-service/src/main/config/em-api.properties**

   The em-api.properties is located in /opt/data/nics/config

```
em.api.exchange.name=iweb.amq.topic
em.api.rabbitmq.hostname=<hostname of web vm>

#When users register an email is generated. Configure the from email address
em.api.user.alert.email=<the from email address>

em.api.rabbitmq.username=guest
em.api.rabbitmq.userpwd=guest
em.api.rabbitmq.msgver=1.2.3
em.api.db.get.maxrows=500
em.api.cache.user.refreshminutes=60
em.api.service.incident.foreverid=800
em.api.resource.chat.stalemsg.factor.mins=15
em.api.resource.chat.stalemsg.factor.string=*STALE>
em.api.resource.incident.getall.accessibleOnly=false

# File Upload Properties
em.api.service.file.upload.path=/opt/data/nics/upload/
em.api.service.file.upload.url=https://<webserver>/static/upload/

# KML File Properties
em.api.service.kml.upload.path=/opt/data/nics/upload/kml/
em.api.service.kmz.upload.path=/opt/data/nics/upload/kmz/

# File Upload Properties
em.api.resource.report.sr.storagepath=/opt/data/nics/reports/general/
em.api.resource.report.sr.url=/data/nics/static/image-upload/
em.api.resource.report.sr.path=https://<webserver>/static/reports/general/

# damage report paths
em.api.resource.report.dmgrpt.storagepath=/opt/data/nics/reports/damage/
em.api.resource.report.dmgrpt.url=/data/nics/static/upload/report/damage/
em.api.resource.report.dmgrpt.path=https://<webserver>/static/reports/damage/

# Export Data Layer Properties
em.api.service.export.kmlExportURL=/<em.api.service.export.workspaceName>/wms?request=GetMap&service=wms&styles
em.api.service.export.mapserverURL=https://<mapserver>/geoserver
em.api.service.export.mapserverUsername=<username>
em.api.service.export.mapserverPassword=<password>
em.api.service.export.collabroomStore=<store>
em.api.service.export.workspaceName=<workspaceName>
em.api.service.export.kmlTemplatePath=<pathToTemplate>
em.api.service.export.webserverURL=https://<webserver>/static/upload

# Import Data Layer Properties
em.api.service.import.shapefileWorkspace=nics
em.api.service.import.shapefileStore=<name of store>

# MDT Properties
em.api.service.mdt.topic=nics.pli.gml
em.api.service.mdt.nicsSchemaLocationURI=http://YOURMAPSERVER/YOURWORKSPACE
em.api.service.mdt.wfsSchemaURI=http://YOURMAPSERVER/geoserver/schemas/wfs/1.0.0/WFS-basic.xsd
em.api.service.mdt.wfsServiceURI=http://YOURMAPSERVER/geoserver/YOURWORKSPACE/wfs?service=WFS&version=1.
em.api.service.mdt.typeName=mdt
#em.api.service.mdt.srsName=EPSG:3857
em.api.service.mdt.srsName=EPSG:4326

ssoToolsPropertyPath=/opt/data/nics/config
```

2. **/em-api/api-rest-service/src/main/webapp/META-INF/context.xml**

File needs updated with the database url, username, and password. The update can be done before building or after the war file as been deployed by going to /var/lib/tomcat8/webapps/em-api/META-INF. The tomcat server must then be restarted.

Import Data Layers Configuration

Data Imports – ArcGisRest, GPX, GeoJson, KML

1. Create the following folders in /opt/data/nics/upload/ on the Data VM
    a. gpx
    b. arcgisrest
    c. geojson
    d. kml
    e. kmz
2. Insert a new datasource entry into the datasource table where the internalurl is the accessible location of the previously created folders and the corrected datasourcetype
    a. https://<your hostname>/static/upload/gpx/
3. The directories on the Data VM should be mounted to the Web VM so that they are web accessible from the UI.
4. Prior to importing a datalayer by uploading a file, make sure that your em.api.service.export.webserverURL property corresponds to the proper file mount location at /opt/data/nics/upload/

Set up the VM with the folder that is mounted on the Web VM (/opt/data/nics/upload)

- Edit the file /etc/exports as root
- At the end of the file add the line:

    /opt/data/nics/upload *<ip of vm to mount it on>***(rw,no_root_squash,sync)**

- Reload the nfs server

    sudo /etc/init.d/nfs-kernel-server reload