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2. Build and Run

1) Build

The adapter can be built using the build.sh or the build.ps1 script. Note that the run_all script has a -b parameter which runs the build script automatically before running the adapter.

```
Windows PowerShell
PS C:\power42\matrix\universal-analysis-adapter> .\build.ps1

#####
Processing configuration files
#####

Checking VeriFitAnalysis.properties:
  using default: C:\power42\matrix\universal-analysis-adapter\analysis\conf\VeriFitAnalysisDefault.properties
Checking VeriFitCompilation.properties:
  using default: C:\power42\matrix\universal-analysis-adapter\compilation\conf\VeriFitCompilationDefault.properties
Checking TriplestoreConf.ini:
  using default: C:\power42\matrix\universal-analysis-adapter\sparql_triplestore\startDefault.ini
Checking AnalysisTools
  using custom: C:\power42\matrix\universal-analysis-adapter\conf\analysis_advanced\AnalysisTools
Checking PluginFilters
  using custom: C:\power42\matrix\universal-analysis-adapter\conf\analysis_advanced\PluginFilters

#####
Building and Installing shared resources
#####

[INFO] Scanning for projects...
[INFO]
[INFO] -----< cz.vutbr.fit.group.verifit.oslc.shared:SharedResources >-----
[INFO] Building SharedResources 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ SharedResources ---
[INFO] Deleting C:\power42\matrix\universal-analysis-adapter\shared\target
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ SharedResources ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\power42\matrix\universal-analysis-adapter\shared\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ SharedResources ---
[INFO]
```

```
Windows PowerShell
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ Analysis ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-dependency-plugin:3.1.2:unpack (default) @ Analysis ---
[INFO] Configured Artifact: org.webjars:swagger-ui:3.25.0:jar
[INFO] Unpacking C:\Users\redsp\.m2\repository\org\webjars\swagger-ui\3.25.0\swagger-ui-3.25.0.jar to C:\power42\matrix\universal-analysis-adapter\analysis\target\swagger-ui with includes "" and excludes ""
[INFO]
[INFO] --- maven-war-plugin:3.2.3:war (default-war) @ Analysis ---
[INFO] Packaging webapp
[INFO] Assembling webapp [Analysis] in [C:\power42\matrix\universal-analysis-adapter\analysis\target\analysis]
[INFO] Processing war project
[INFO] Copying webapp webResources [C:\power42\matrix\universal-analysis-adapter\analysis\src\main\webapp] to [C:\power42\matrix\universal-analysis-adapter\analysis\target\analysis]
[INFO] Copying webapp webResources [C:\power42\matrix\universal-analysis-adapter\analysis\target\swagger-ui\META-INF/resources/webjars/swagger-ui/3.25.0] to [C:\power42\matrix\universal-analysis-adapter\analysis\target\analysis]
[INFO] Copying webapp resources [C:\power42\matrix\universal-analysis-adapter\analysis\src\main\webapp]
[INFO] Processing overlay [ id org.eclipse.lyo.server:oauth-webapp]
[INFO] Webapp assembled in [2601 msecs]
[INFO] Building war: C:\power42\matrix\universal-analysis-adapter\analysis\target\analysis.war
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ Analysis ---
[INFO] Installing C:\power42\matrix\universal-analysis-adapter\analysis\target\analysis.war to C:\Users\redsp\.m2\repository\cz\vutbr\fit\group\verifit\oslc\analysis\Analysis\0.0.1-SNAPSHOT\Analysis-0.0.1-SNAPSHOT.war
[INFO] Installing C:\power42\matrix\universal-analysis-adapter\analysis\pom.xml to C:\Users\redsp\.m2\repository\cz\vutbr\fit\group\verifit\oslc\analysis\Analysis\0.0.1-SNAPSHOT\Analysis-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 18.367 s
[INFO] Finished at: 2021-04-26T18:31:59+02:00
[INFO] -----

#### ALL DONE ####

PS C:\power42\matrix\universal-analysis-adapter>
```

2) Run

Use the run_all.sh or the run_all.ps1 script. Useful parameters are -b to build the adapter first, and -t which also starts new terminals tailing log files of the adapter. Wait for the startup to finish based on the information printed by the script. The script also prints what configuration is being used (what conf files). When desired, exit the adapter using ctrl+c (not just pressing the X on the terminal! - this would leave other terminal windows hanging around).

```
Windows PowerShell
PS C:\power42\matrix\universal-analysis-adapter> .\run_all.ps1 -t
Checking VeriFitAnalysis.properties:
    using default: C:\power42\matrix\universal-analysis-adapter\analysis\conf\VeriFitAnalysisDefault.properties
Checking VeriFitCompilation.properties:
    using default: C:\power42\matrix\universal-analysis-adapter\compilation\conf\VeriFitCompilationDefault.properties
Checking TriplestoreConf.ini:
    using default: C:\power42\matrix\universal-analysis-adapter\sparql_triplestore\startDefault.ini
Checking AnalysisTools
    using custom: C:\power42\matrix\universal-analysis-adapter\conf\analysis_advanced\AnalysisTools
Checking PluginFilters
    using custom: C:\power42\matrix\universal-analysis-adapter\conf\analysis_advanced\PluginFilters

#####
    OSLC Universal Analysis, v2.3.0
#####

Waiting for the Triplestore to finish startup
..Triplestore running

Starting the Compilation adapter
Waiting for the Compilation adapter to finish startup
.....Compilation adapter running

Starting the Analysis adapter
Waiting for the Analysis adapter to finish startup
....Analysis adapter running

Ready to go!
Use ctrl+c to exit...
```

If the -t option is used the script will open three new terminal which tail the log files produced by each of the adapter's components (analysis, compilation, triplestore). The analysi and the compilation logs also print what configuration is being used.

```
tail: Analysis Log (feel free to close this window)
ard/tlv/JstlXmlTLV$Handler.class, jar:file:///C:/power42/matrix/universal-analysis-adapter/analysis/target/analysis/WEB-INF/lib/jstl-1.2.jar!/org/apache/taglibs/standard/tlv/JstlXmlTLV$Handler.class
[WARNING] org.apache.taglibs.standard.tlv.JstlXmlTLV scanned from multiple locations: jar:file:///C:/Users/redsp/.m2/repository/org/apache/taglibs/standard-impl/1.2.5/taglibs-standard-impl-1.2.5.jar!/org/apache/taglibs/standard/tlv/JstlXmlTLV.class, jar:file:///C:/power42/matrix/universal-analysis-adapter/analysis/target/analysis/WEB-INF/lib/jstl-1.2.jar!/org/apache/taglibs/standard/tlv/JstlXmlTLV.class
[INFO] Scanning elapsed time=3136ms
[INFO] DefaultSessionIdManager workerName=node0
[INFO] No SessionScavenger set, using defaults
[INFO] node0 Scavenging every 600000ms
mvn : [main] INFO cz.vutbr.fit.group.verifit.oslc.analysis.servlet.ServletListener - Setting public URI: http://localhost:8080/analysis
At line:1 char:112
+ ... /analysis ; mvn jetty:run-exploded >> C:\power42\matrix\universal-ana ...
+ ~~~~~
+ CategoryInfo          : NotSpecified: ([main] INFO cz....t:8080/analysis:String) [], RemoteException
+ FullyQualifiedErrorId : NativeCommandError

[main] INFO cz.vutbr.fit.group.verifit.oslc.analysis.servlet.ServletListener - Setting servlet path: /services/
[main] INFO cz.vutbr.fit.group.verifit.oslc.analysis.servlet.ServletListener - servletListener contextInitialized.
[main] INFO cz.vutbr.fit.group.verifit.oslc.analysis.VeriFitAnalysisManager - Loaded configuration:
ADAPTER_HOST: http://localhost
ADAPTER_PORT: 8080
SERVER_URL: http://localhost:8080/
SPARQL_SERVER_NAMED_GRAPH_RESOURCES: http://verifit_analysis
SPARQL_SERVER_QUERY_ENDPOINT: http://localhost:8082/fuseki/verifit_analysis/query
SPARQL_SERVER_UPDATE_ENDPOINT: http://localhost:8082/fuseki/verifit_analysis/update
AUTHENTICATION_ENABLED: false
AUTHENTICATION_USERNAME: user
AUTHENTICATION_PASSWORD: *****
KEEP_LAST_N_ENABLED: false
KEEP_LAST_N: 100
DUMMYTOOL_PATH: C:\power42\matrix\universal-analysis-adapter\analysis\tests\resources\dummy_tool.ps1
[main] ERROR cz.vutbr.fit.group.verifit.oslc.analysis.VeriFitAnalysisManager - Resource: 'http://localhost:8080/analysis/services/resources/automationRequests/bookmarkID' not found
[main] WARN cz.vutbr.fit.group.verifit.oslc.analysis.VeriFitAnalysisManager - Initializing ID generators: bookmarkID resource not found. Falling back querying the whole database.
[main] INFO cz.vutbr.fit.group.verifit.oslc.analysis.VeriFitAnalysisManager - Initialization: resource ID gen starting at 1
Dub 26, 2021 6:37:46 ODP. org.glassfish.jersey.internal.Errors logErrors
WARNING: The following warnings have been detected: WARNING: The (sub)resource method getServiceProviders in cz.vutbr.fit.group.verifit.oslc.analysis.services.ServiceProviderService contains empty path annotation.

[INFO] Started o.e.j.m.p.JettyWebAppContext@36c07c75{VeriFit Analysis,/analysis,file:///C:/power42/matrix/universal-analysis-adapter/analysis/target/analysis/,AVAILABLE}{C:\power42\matrix\universal-analysis-adapter\analysis\target\analysis}
[INFO] Started ServerConnector@231cdda8{HTTP/1.1,[http/1.1]}{0.0.0.0:8080}
[INFO] Started @27761ms
[INFO] Started Jetty Server
[INFO] Console reloading is ENABLED. Hit ENTER on the console to restart the context.
```


[illegible]