Meecrowave Command Line Interface

Meecrowave provides a CLI (Command Line Interface) called `org.apache.meecrowave.runner.Cli`.

It can be used to deploy the java classpath or a war. Here are the main options:

Name	Description
--tomcat-antiresourcelocking	Should Tomcat anti resource locking feature be activated on StandardContext.
--cdi-conversation	Should CDI conversation be activated
--client-auth	HTTPS keystore client authentication
--conf	Conf folder to synchronize
--connector	Custom connectors
--tomcat-context-configurer	Configurers for all webapps. The Consumer<Context> instances will be applied to all deployments.
--cxf-servlet-params	Init parameters passed to CXF servlet
--default-ssl-hostconfig-name	The name of the default SSLHostConfig that will be used for secure https connections.
--delete-on-startup	Should the directory be cleaned on startup if existing
--dir	Root folder if provided otherwise a fake one is created in tmp-dir
--host	Default host
--http2	Activate HTTP 2
--http	HTTP port
--https	HTTPS port
--cxf-initialize-client-bus	Should the client bus be set. If false the server one will likely be reused.
--servlet-container-initializer	ServletContainerInitializer instances.
--servlet-container-initializer-injection	Should ServletContainerInitialize support injections.
--jaxrs-beanvalidation	Should bean validation be activated on JAX-RS endpoint if present in the classpath.
--jaxrs-default-providers	If jaxrsProviderSetup is true the list of default providers to load (or defaulting to johnson jsonb and jsonp ones)
--jaxrs-log-provider	Should JAX-RS providers be logged
--jaxrs-mapping	Default jaxrs mapping
--jaxrs-provider-setup	Should default JAX-RS provider be configured
--jaxws-support-if-present	Should @WebService CDI beans be deployed if cxf-rt-frontend-jaxws is in the classpath.
--jsonb-binary-strategy	Should JSON-B provider prettify the output

Name	Description
--jsonb-encoding	Which encoding provider JSON-B should use
--jsonb-ijson	Should JSON-B provider comply to I-JSON
--jsonb-naming-strategy	Should JSON-B provider prettify the output
--jsonb-nulls	Should JSON-B provider serialize nulls
--jsonb-order-strategy	Should JSON-B provider prettify the output
--jsonb-prettify	Should JSON-B provider prettify the output
--jsonp-buffer-strategy	JSON-P JAX-RS provider buffer strategy (see johnzon)
--jsonp-read-buffer-length	JSON-P JAX-RS provider read buffer limit size (see johnzon)
--jsonp-max-string-length	JSON-P JAX-RS provider max string limit size (see johnzon)
--jsonp-write-buffer-length	JSON-P JAX-RS provider write buffer limit size (see johnzon)
--jsonp-supports-comment	Should JSON-P JAX-RS provider prettify the outputs (see johnzon)
--jsonp-supports-comment	Should JSON-P JAX-RS provider support comments (see johnzon)
--keep-server-xml-as-this	Don't replace ports in server.xml
--keystore-alias	HTTPS keystore alias
--keystore-file	HTTPS keystore location
--keystore-password	HTTPS keystore password
--keystore-type	HTTPS keystore type
--logging-global-setup	Should logging be configured to use log4j2 (it is global)
--login-config	web.xml login config
--meecrowave-properties	Loads a meecrowave properties, defaults to meecrowave.properties.
--pid-file	A file path to write the process id if the server starts
--properties	Passthrough properties
--quick-session	Should an unsecured but fast session id generator be used
--realm	realm
--roles	In memory roles
--scanning-exclude	A forced exclude list of jar names (comma separated values)
--scanning-include	A forced include list of jar names (comma separated values)

Name	Description
--scanning-package-exclude	A forced exclude list of packages names (comma separated values)
--scanning-package-include	A forced include list of packages names (comma separated values)
--security-constraint	web.xml security constraint
--server-xml	Provided server.xml
--shared-libraries	A folder containing shared libraries.
--skip-http	Skip HTTP connector
--ssl	Use HTTPS
--ssl-protocol	HTTPS protocol
--stop	Shutdown port if used or -1
--tmp-dir	Temporary directory
--tomcat-access-log-pattern	Activates and configure the access log valve. Value example: '%h %l %u %t "%r" %s %b "%{Referer}i" "%{User-Agent}i"'
--tomcat-default-setup	Add default servlet
--tomcat-filter	A Tomcat JarScanFilter
--tomcat-default-setup-jsp-development	Should JSP support if available be set in development mode
--tomcat-skip-jmx	(Experimental) Should Tomcat MBeans be skipped.
--tomcat-scanning	Should Tomcat scanning be used (@HandleTypes, @WebXXX)
--tomcat-wrap-loader	(Experimental) When deploying a classpath (current classloader), should meecrowave wrap the loader to define another loader identity but still use the same classes and resources.
--log4j2-jul-bridge	Should JUL logs be redirected to Log4j2 - only works before JUL usage.
--use-shutdown-hook	Use shutdown hook to automatically stop the container on Ctrl+C
--tomcat-default	Should Tomcat default be set (session timeout, mime mapping etc...)
--users	In memory users
--watcher-bouncing	Activate redeployment on directories update using this bouncing.
--web-resource-cached	Cache web resources
--web-session-cookie-config	Force the cookie-config, it uses a properties syntax with the keys being the web.xml tag names.
--web-session-timeout	Force the session timeout for webapps

Name	Description
--web-xml	Global web.xml
--help	Show the CLI help/usage
--context	The context to use to deploy the webapp
--webapp	Location of the webapp, if not set the classpath will be deployed
--docbase	Location of the docbase for a classpath deployment

Note that `help` command is supported as well.

Extending the CLI

You can add your own CLI options implementing `org.apache.meecrowave.runner.Cli$Options` (just a marker interface, no logic to code) and use `@CliOption` to define fields as coming from the CLI arguments. To register your option bean just add it in `META-INF/services/org.apache.meecrowave.runner.Cli$Options`.

> `Meecrowave.Builder` provides a `getExtension(type)` which can be used to get this kind of extension. This is common and works in all modes (arquillian, JUnit, embedded etc…) replacing the arguments by properties on `Meecrowave.Builder` instance.