

SDN: CCGC 5002

LAB 07

NAME LAKHWINDER SINGH

ID N01571464

SCREENSHOTS:

The screenshot shows a terminal window titled "student@VM2: ~/Downloads/opendaylight-0.11.1". The terminal output is as follows:

```

opendaylight-0.11.1/lib/README
opendaylight-0.11.1/lib/karaf.branding-3.0.0.jar
opendaylight-0.11.1/data/
opendaylight-0.11.1/data/tmp/
opendaylight-0.11.1/data/tmp/README
opendaylight-0.11.1/deploy/
opendaylight-0.11.1/deploy/README
opendaylight-0.11.1/LICENSE
opendaylight-0.11.1/configuration/
opendaylight-0.11.1/configuration/context.xml
opendaylight-0.11.1/configuration/tomcat-logging.properties
opendaylight-0.11.1/configuration/tomcat-server.xml
opendaylight-0.11.1/README.markdown
opendaylight-0.11.1/CONTRIBUTING.markdown
student@VM2:~/Downloads$ ls
Lab5 Lab9-10 opendaylight-0.11.1 opendaylight-0.11.1.tar.gz SDN-Lab2-7
student@VM2:~/Downloads$ cd opendaylight-0.11.1
student@VM2:~/Downloads/opendaylight-0.11.1$ ls
bin CONTRIBUTING.markdown deploy lib README.markdown
configuration data etc LICENSE system
student@VM2:~/Downloads/opendaylight-0.11.1$ ./bin/karaf
karaf: JAVA_HOME not set; results may vary
Apache Karaf starting up. Press Enter to open the shell now...
100% [=====]

> Karaf started in 0s. Bundle stats: 12 active, 12 total

Hit '<tab>' for a list of available commands
and '[cmd] --help' for help on a specific command.
Hit '<ctrl-d>' or type 'system:shutdown' or 'logout' to shutdown OpenDaylight.

opendaylight user@control:~$

```

```
Feature has no conditionals.
opendaylight-user@root>feature:list -i |grep restconf
opendaylight-user@root>feature:info odl-restconf
Feature odl-restconf 1.10.1
Description:
  OpenDaylight :: Restconf
Details:
  OpenDaylight is leading the transformation to Open Software Defined Networking (SDN). For more information, please see https://www
  ..opendaylight.org
Feature has no configuration
Feature has no configuration files
Feature depends on:
  odl-restconf-nb-bierman02 1.10.1
  odl-restconf-nb-rfc0040 1.10.1
Feature has no bundles.
Feature has no conditionals.
opendaylight-user@root>clear
opendaylight-user@root>log:display
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.sal-common-api/1.10.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.sal-common-impl/1.10.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.sal-common-util/1.10.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.sal-core-api/1.10.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.sal-core-compat/1.10.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.sal-core-spl/1.10.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.sal-distributed-datastore/1.10.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.sal-inmemory-datastore/1.10.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.sal-remote-rpc-connector/1.10.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.threadpool-config-api/0.11.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.controller.threadpool-config-impl/0.11.1
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-api/4.0.6
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-dom-adapter/4.0.6
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-dom-codec/4.0.6
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-dom-codec-osgi/4.0.6
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-generator-api/2.0.6
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-generator-impl/2.0.6
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-generator-util/2.0.6
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-spec-util/2.0.6
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-spl/4.0.6
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-util/4.0.6
14:11:38.621 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-model-ietf-rfc6991/2.0.6
```

```
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.rfc8528-model-api/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.rfc8528-parser-support/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.util/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-common/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-data-api/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-data-codec-gson/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-data-codec-xml/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-data-impl/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-data-transform/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-data-util/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-model-api/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-model-export/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-model-util/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-parser-api/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-parser-impl/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-parser-reactor/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-parser-rfc7950/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-parser-spl/3.0.5
14:11:38.623 INFO [features-3-thread-1] org.opendaylight.yangtools.yang-xpath-api/1.0.5
14:11:38.623 INFO [features-3-thread-1] org.ops4j.pax.url.war/2.5.2
14:11:38.623 INFO [features-3-thread-1] org.ops4j.pax.web.pax-web-api/7.2.5
14:11:38.623 INFO [features-3-thread-1] org.ops4j.pax.web.pax-web-deployer/7.2.5
14:11:38.623 INFO [features-3-thread-1] org.ops4j.pax.web.pax-web-descriptor/7.2.5
14:11:38.623 INFO [features-3-thread-1] org.ops4j.pax.web.pax-web-extender-war/7.2.5
14:11:38.623 INFO [features-3-thread-1] org.ops4j.pax.web.pax-web-extender-whiteboard/7.2.5
14:11:38.623 INFO [features-3-thread-1] org.ops4j.pax.web.pax-web-jetty/7.2.5
14:11:38.623 INFO [features-3-thread-1] org.ops4j.pax.web.pax-web-jsp/7.2.5
14:11:38.623 INFO [features-3-thread-1] org.ops4j.pax.web.pax-web-runtime/7.2.5
14:11:38.623 INFO [features-3-thread-1] org.ops4j.pax.web.pax-web-spl/7.2.5
14:11:38.623 INFO [features-3-thread-1] org.reactivestreams.reactive-streams/1.0.2
14:11:38.623 INFO [features-3-thread-1] org.scala-lang.modules.scala-java8-compat/0.8.0
14:11:38.623 INFO [features-3-thread-1] org.scala-lang.modules.scala-parser-combinators/1.1.2
14:11:38.623 INFO [features-3-thread-1] org.scala-lang.scala-library/2.12.10.v20190904-150159-VFINAL-61701c2
14:11:38.623 INFO [features-3-thread-1] org.scala-lang.scala-reflect/2.12.10.v20190904-150159-VFINAL-61701c2
14:11:38.623 INFO [features-3-thread-1] stax2-api/3.1.4
14:11:38.623 INFO [features-3-thread-1] tech.pantheon.trileap/1.0.6
14:11:38.623 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_com_bea_xml_jsr173-ri-1.0
14:11:38.623 INFO [features-3-thread-1] _jsr173-ri-1.0.jar/0.0.0
14:11:38.623 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_com_google_errorprone_err
or-prone-annotations-2.3.3_error-prone-annotations-2.3.3.jar/0.0.0
```



```
SDN-lakhwinder.singh - VM2 - Google Chrome
fast-vcloud.humber.ca/tenant/CCGC-5002/wmks-console/index.html?vmId=vm-3d081990-acca-4754-a13e-205e1da8144c

14:11:38.638 INFO [features-3-thread-1] org.scala-lang.scala-library/2.12.10.v20190904-150159-VF1NAL-61701c2
14:11:38.638 INFO [features-3-thread-1] org.scala-lang.scala-reflect/2.12.10.v20190904-150159-VF1NAL-61701c2
14:11:38.638 INFO [features-3-thread-1] stax2-apl/3.1.4
14:11:38.638 INFO [features-3-thread-1] tech.patheon.tritenap/1.0.6
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_com_bea_xml_jsr173-ri_1.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_com_google_errorprone_err
or_prone_annotations_2.3.3.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_com_google_guava_listenab
lefuture_9999.0-empty-to-avoid-conflict-with-guava_listenablefuture-9999.0-empty-to-avoid-conflict-with-guava.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_com_google_j2objc_j2objc-
annotations_1.1_j2objc-annotations-1.1.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_net_java_dev_stax-utills_s
tax-utills_20070216_stax-utills-20070216.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_net_sf_kxml_kxml2_2.2.2_k
xml2-2.2.2.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_checkerframework_chec
ker_qual_2.5.8_checker-qual-2.5.8.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_codehaus_mojo_animal-
sniffer-annotations_1.17_animal-sniffer-annotations-1.17.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_iq80_leveldb_leveldb
_0.10_leveldb-0.10.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_jolokia_jolokia-core-
1.6.2_jolokia-core-1.6.2.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_jolokia_jolokia-jsr16
0_0.1.6.2_jolokia-jsr160-1.6.2.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_json_json_20131018_js
on-20131018.jar/0.0.0
14:11:38.638 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_opendaylight_netconf
_sal-rest-connector-config_1.10.1_sal-rest-connector-config-1.10.1-restconf.cfg/0.0.0
14:11:38.631 INFO [features-3-thread-1] Stopping bundles:
14:11:38.632 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_json_json_20131018_json-2
0131018.jar/0.0.0
14:11:38.634 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_opendaylight_netconf_sal-
rest-connector-config_1.10.1_sal-rest-connector-config-1.10.1-restconf.cfg/0.0.0
14:11:38.634 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_jolokia_jolokia-jsr160_1.
6.2_jolokia-jsr160-1.6.2.jar/0.0.0
14:11:38.634 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_jolokia_jolokia-core-1.6.
2_jolokia-core-1.6.2.jar/0.0.0
14:11:38.635 INFO [features-3-thread-1] wrap_file_home_student_downloads_opendaylight-0.11.1_system_org_iq80_leveldb_leveldb_0.10
_leveldb-0.10.jar/0.0.0
```

```
SDN-lakhwinder.singh - VM2 - Google Chrome
fast-vcloud.humber.ca/tenant/CCGC-5002/wmks-console/index.html?vmId=vm-3d081990-acca-4754-a13e-205e1da8144c

er.actors.dds.AbstractDataStoreClientBehavior$SLambda$1$1/0x000000010140f440] without sender to Actor[akka://opendaylight-cluster-d
ata/user/$a#1028571517] was not delivered. [6] dead letters encountered. If this is not an expected behavior, then [Actor[akka://ope
ndaylight-cluster-data/user/$a#1028571517]] may have terminated unexpectedly. This logging can be turned off or adjusted with configur
ation settings 'akka.log-dead-letters' and 'akka.log-dead-letters-during-shutdown'.
14:11:38.638 INFO [opendaylight-cluster-data-akka.actor.default-dispatcher-19] Message [org.opendaylight.controller.cluster.databrok
er.actors.dds.AbstractDataStoreClientBehavior$SLambda$1$1/0x000000010140f440] without sender to Actor[akka://opendaylight-cluster-d
ata/user/$c#379610465] was not delivered. [7] dead letters encountered. If this is not an expected behavior, then [Actor[akka://ope
ndaylight-cluster-data/user/$c#379610465]] may have terminated unexpectedly. This logging can be turned off or adjusted with configur
ation settings 'akka.log-dead-letters' and 'akka.log-dead-letters-during-shutdown'.
14:11:38.638 INFO [opendaylight-cluster-data-akka.actor.default-dispatcher-19] Message [org.opendaylight.controller.cluster.databrok
er.actors.dds.AbstractDataStoreClientBehavior$SLambda$1$1/0x000000010140f440] without sender to Actor[akka://opendaylight-cluster-d
ata/user/$d#1179951083] was not delivered. [8] dead letters encountered. If this is not an expected behavior, then [Actor[akka://ope
ndaylight-cluster-data/user/$d#1179951083]] may have terminated unexpectedly. This logging can be turned off or adjusted with configur
ation settings 'akka.log-dead-letters' and 'akka.log-dead-letters-during-shutdown'.
14:11:38.638 INFO [opendaylight-cluster-data-akka.actor.default-dispatcher-19] Message [org.opendaylight.controller.cluster.databrok
er.actors.dds.AbstractDataStoreClientBehavior$SLambda$1$1/0x000000010140f440] without sender to Actor[akka://opendaylight-cluster-d
ata/user/$f#1589013832] was not delivered. [9] dead letters encountered. If this is not an expected behavior, then [Actor[akka://ope
ndaylight-cluster-data/user/$f#1589013832]] may have terminated unexpectedly. This logging can be turned off or adjusted with configur
ation settings 'akka.log-dead-letters' and 'akka.log-dead-letters-during-shutdown'.
14:11:38.638 INFO [opendaylight-cluster-data-akka.actor.default-dispatcher-19] Message [org.opendaylight.controller.cluster.databrok
er.actors.dds.AbstractDataStoreClientBehavior$SLambda$1$1/0x000000010140f440] without sender to Actor[akka://opendaylight-cluster-d
ata/user/$j#1634286352] was not delivered. [10] dead letters encountered, no more dead letters will be logged. If this is not an ex
pected behavior, then [Actor[akka://opendaylight-cluster-data/user/$j#1634286352]] may have terminated unexpectedly. This logging can
be turned off or adjusted with configuration settings 'akka.log-dead-letters' and 'akka.log-dead-letters-during-shutdown'.
14:11:38.905 INFO [opendaylight-cluster-data-akka.actor.default-dispatcher-4] Shutting down remote daemon.
14:11:38.906 INFO [opendaylight-cluster-data-akka.actor.default-dispatcher-4] Remote daemon shut down; proceeding with flushing remo
te transports.
14:11:38.933 INFO [opendaylight-cluster-data-akka.actor.default-dispatcher-36] Remoting shut down.
14:11:38.963 INFO [features-3-thread-1] org.opendaylight.aaa.web.servlet-jersey2/0.10.1
14:11:38.964 INFO [features-3-thread-1] org.opendaylight.aaa.web.osgi-impl/0.10.1
14:11:38.964 INFO [features-3-thread-1] Destroying container for blueprint bundle org.opendaylight.aaa.web.osgi-impl/0.10.1
14:11:38.965 INFO [features-3-thread-1] org.opendaylight.aaa.password-service-impl/0.10.1
14:11:38.966 INFO [features-3-thread-1] Destroying container for blueprint bundle org.opendaylight.aaa.password-service-impl/0.10.1
14:11:38.983 INFO [features-3-thread-1] org.opendaylight.aaa.filterchain/0.10.1
14:11:38.985 INFO [features-3-thread-1] Destroying container for blueprint bundle org.opendaylight.aaa.filterchain/0.10.1
14:11:38.987 INFO [features-3-thread-1] org.opendaylight.mdsal.dom.schema-service-osgi/4.0.6
14:11:38.988 INFO [features-3-thread-1] Destroying container for blueprint bundle org.opendaylight.mdsal.dom.schema-service-osgi/4.0
.6
14:11:38.989 INFO [features-3-thread-1] org.opendaylight.mdsal.binding-dom-codec-osgi/4.0.6
14:11:38.989 INFO [features-3-thread-1] Binding-DOM codec stopping
14:11:38.989 INFO [features-3-thread-1] Binding-DOM codec stopped
```

SDN-lakhwinder_singh - VM2 - Google Chrome

fast-vcloud.humber.ca/tenant/CCGC-5002/wmks-console/index.html?vmid=vm-3d081990-acca-4754-a13e-205e1da8144c

```
at org.eclipse.osgi.storage.bundlefile.ZipBundleFile.getZipFile(ZipBundleFile.java:106) ~[?:?]
at org.eclipse.osgi.storage.bundlefile.ZipBundleFile.checkedOpen(ZipBundleFile.java:65) ~[?:?]
at org.eclipse.osgi.storage.bundlefile.ZipBundleFile.getEntry(ZipBundleFile.java:240) ~[?:?]
at org.eclipse.osgi.internal.loader.classpath.ClasspathManager.findClassImpl(ClasspathManager.java:560) ~[?:?]
at org.eclipse.osgi.internal.loader.classpath.ClasspathManager.findLocalClassImpl(ClasspathManager.java:538) ~[?:?]
at org.eclipse.osgi.internal.loader.classpath.ClasspathManager.findLocalClass(ClasspathManager.java:525) ~[?:?]
at org.eclipse.osgi.internal.loader.ModuleClassLoader.findLocalClass(ModuleClassLoader.java:328) ~[?:?]
at org.eclipse.osgi.internal.loader.BundleLoader.findLocalClass(BundleLoader.java:368) ~[?:?]
at org.eclipse.osgi.internal.loader.BundleLoader.findClassInternal(BundleLoader.java:446) ~[?:?]
at org.eclipse.osgi.internal.loader.BundleLoader.findClass(BundleLoader.java:395) ~[?:?]
at org.eclipse.osgi.internal.loader.BundleLoader.findClass(BundleLoader.java:387) ~[?:?]
at org.eclipse.osgi.internal.loader.ModuleClassLoader.loadClass(ModuleClassLoader.java:150) ~[?:?]
at java.lang.ClassLoader.loadClass(ClassLoader.java:522) ~[?:?]
at io.netty.util.concurrent.DefaultPromise.notifyListeners(DefaultPromise.java:421) ~[?:?]
at io.netty.util.concurrent.DefaultPromise.setValue0(DefaultPromise.java:538) ~[?:?]
at io.netty.util.concurrent.DefaultPromise.setSuccess0(DefaultPromise.java:527) ~[?:?]
at io.netty.util.concurrent.DefaultPromise.setSuccess(DefaultPromise.java:90) ~[?:?]
at io.netty.util.concurrent.SingleThreadEventExecutor$5.run(SingleThreadEventExecutor.java:963) ~[?:?]
at io.netty.util.concurrent.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74) ~[?:?]
at io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30) ~[?:?]
at java.lang.Thread.run(Thread.java:829) ~[?:?]
Caused by: java.nio.file.NoSuchFileException: /home/student/Downloads/opendaylight-0.11.1/data/cache/org.eclipse.osgi/102/0/bundleFile
at sun.nio.fs.UnixException.translateToIOException(UnixException.java:92) ~[?:?]
at sun.nio.fs.UnixException.rethrowAsIOException(UnixException.java:111) ~[?:?]
at sun.nio.fs.UnixException.rethrowAsIOException(UnixException.java:116) ~[?:?]
at sun.nio.fs.UnixFileAttributeViews$Basic.readAttributes(UnixFileAttributeViews.java:55) ~[?:?]
at sun.nio.fs.UnixFileSystemProvider.readAttributes(UnixFileSystemProvider.java:149) ~[?:?]
at sun.nio.fs.LinuxFileSystemProvider.readAttributes(LinuxFileSystemProvider.java:99) ~[?:?]
at java.nio.file.Files.readAttributes(Files.java:1764) ~[?:?]
at java.util.zip.ZipFile$Source.get(ZipFile.java:1259) ~[?:?]
at java.util.zip.ZipFile$CleanableResource.<init>(ZipFile.java:733) ~[?:?]
at java.util.zip.ZipFile$CleanableResource.get(ZipFile.java:850) ~[?:?]
at java.util.zip.ZipFile.<init>(ZipFile.java:248) ~[?:?]
at java.util.zip.ZipFile.<init>(ZipFile.java:177) ~[?:?]
at java.util.zip.ZipFile.<init>(ZipFile.java:191) ~[?:?]
at org.eclipse.osgi.framework.util.SecureAction.getZipFile(SecureAction.java:304) ~[?:?]
... 22 more

opendaylight-user@root>
```

Connected.

SDN-lakhwinder_singh - VM2 - Google Chrome

fast-vcloud.humber.ca/tenant/CCGC-5002/wmks-console/index.html?vmid=vm-3d081990-acca-4754-a13e-205e1da8144c

```
opendaylight-user@root>log:get
Logger                                         Level
-----
ROOT                                         INFO
org.apache.aries.spify                       WARN
org.apache.karaf.jaas.modules.audit         INFO
org.apache.sshd                              INFO
opendaylight-user@root>
```

Connected.

```
SDN-lakhwinder_singh - VM2 - Google Chrome
fast-vcloud.humber.ca/tenant/CCGC-5002/wmks-console/index.html?vmid=vm-3d081990-acca-4754-a13e-205e1da8144c

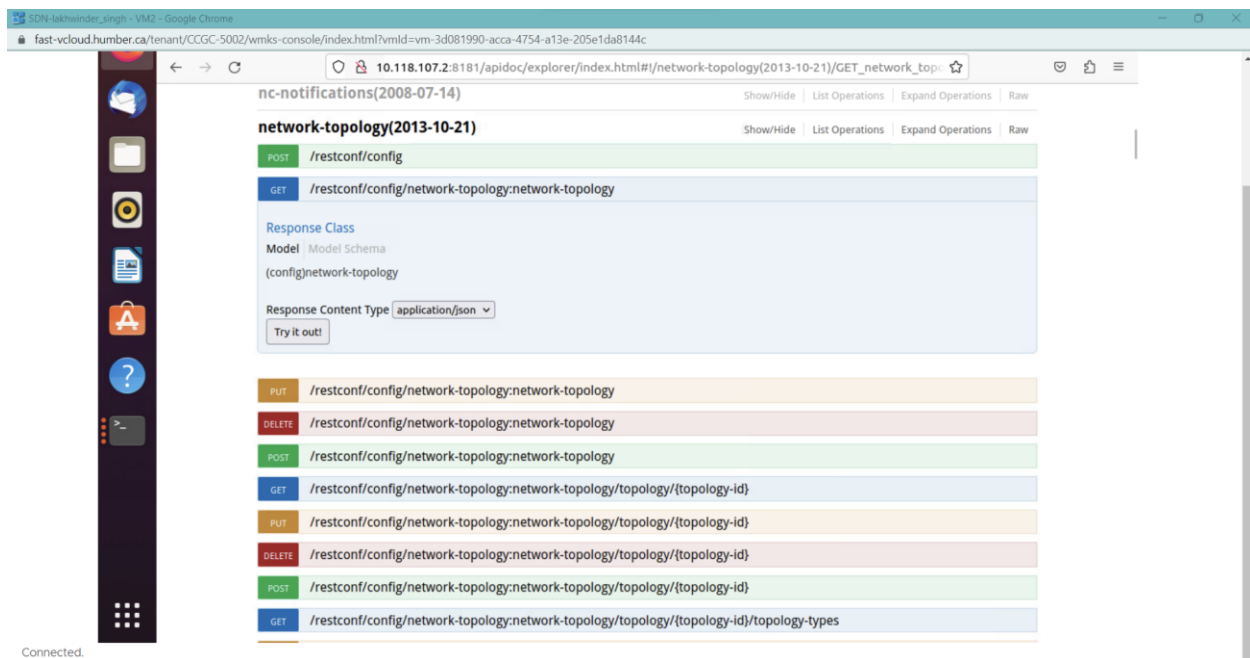
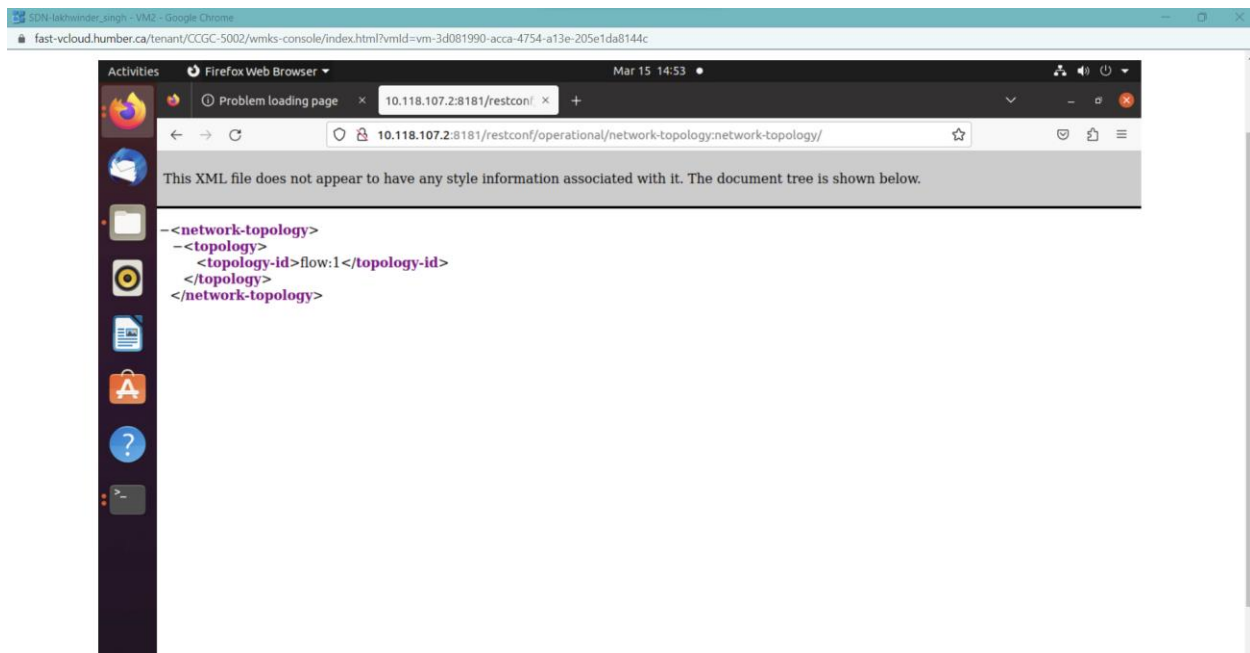
opendaylight-user@root>Log:get
Logger
ROOT
org.apache.aries.spifly
org.apache.karaf.jaas.modules.audit
org.apache.sshd
opendaylight-user@root>shutdown
Confirm: halt instance root (yes/no): y
opendaylight-user@root>logout

student@VM2: ~/Downloads/opendaylight-0.11.1$
```

```
SDN-lakhwinder_singh - VM2 - Google Chrome
fast-vcloud.humber.ca/tenant/CCGC-5002/wmks-console/index.html?vmid=vm-3d081990-acca-4754-a13e-205e1da8144c

student@VM2:~$ curl --user "admin":"admin" -H "Accept: application/xml" -X GET http://10.118.107.2:8181/restconf/operational/network-topology:network-topology/curl: option -: is unknown
curl: try 'curl --help' or 'curl --manual' for more information
student@VM2:~$ curl --user "admin":"admin" -H "Accept: application/xml" -X GET http://10.118.107.2:8181/restconf/operational/network-topology:network-topology/
<network-topology xmlns="urn:TBD:params:xml:ns:yang:network-topology"><topology><topology-id>flow:1</topology-id></topology></network-topology>student@VM2:~$ curl --user "admin":"admin" -H "Accept: application/xml" -H "Content-Type:application/xml" -X GET http://10.118.107.2:8181/restconf/operational/network-topology:network-topology/
<network-topology xmlns="urn:TBD:params:xml:ns:yang:network-topology"><topology><topology-id>flow:1</topology-id></topology></network-topology>student@VM2:~$
```

Connected



CTRL+ALT+DEL

OPTIONS

Activities Firefox Web Browser Mar 15 15:53

Firefox Privacy Notice RestConf Documentation

10.118.107.2:8181/apidoc/explorer/index.html#/network-topology(2013-10-21)

DELETE	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/source
GET	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/destination
PUT	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/destination
DELETE	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/destination
GET	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/supporting-link/{link-ref}
PUT	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/supporting-link/{link-ref}
DELETE	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/supporting-link/{link-ref}
GET	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/l3-unicast-igp-topology:igp-link-attributes
PUT	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/l3-unicast-igp-topology:igp-link-attributes
DELETE	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/l3-unicast-igp-topology:igp-link-attributes
POST	/restconf/config/network-topology:network-topology/topology/{topology-id}/link/{link-id}/l3-unicast-igp-topology:igp-link-