Upgrading from v2.0.3 to v2.2 of the PolicyGuru® Meta-Policy Controller

To upgrade the PolicyGuru® components from v2.0.3 to v2.2

1. Before starting the upgrade procedure, carry out Update #11 on the v2.0.3 system if not already performed: Log into the PolicyGuru GUI, go to the **Policy** tab, under **Project Authoring** select **CEP**, and then delete the “Call List Lookup Example” rule and the “PN List Watch Example” rule.  After deleting these rules, perform a **Build and Deploy** on CEP policy.
2. Back up **/opt/ngp** and other configuration files on each system using the procedures from the System Recovery document.
3. Back up the database contents using the procedure from the System Recovery document.
4. Stop the **ngp** service on the MS
5. Stop the **ngp** service on the DB
6. Optionally stop the **ngp** service on the ENUM and Probe servers.  This can be postponed until upgrading each specific ENUM/Probe server if desired.
7. On the DB:
8. Set the **/etc/yum/vars/product** and **/etc/yum/vars/release** variables to point to the v2.2 yum repo.
9. “yum clean metadata”
10. “yum groupupdate database”
11. Compare the backed up v2.0.3 **/opt/ngp/** contents to the current v2.2 **/opt/ngp/** contents.  After untarring the backed up contents to a temporary location on the system, use commands such as “diff -r --brief /tmp/opt/ngp/ /opt/ngp/ | grep differ” to find configuration files which changed between the 2.0.3 installation and the 2.2 installation.  In general, the old 2.0.3 configuration files should be copied over the new “generic” configuration files that were installed as part of the 2.2 upgrade.  The command “diff -r --brief /tmp/opt/ngp/ /opt/ngp/ | grep -v differ |grep -v pyo |grep -v pyc” can also be used to find files that are present or not present in the new installation.  In most installations, the following files will need to be copied into the 2.2 installation from the backup directory:
    1. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar
    2. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar.index
    3. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar
    4. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar.index
    5. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar
    6. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar.index
    7. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar
    8. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar.index
    9. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar
    10. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar.index
    11. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar
    12. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar.index
    13. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.orig
    14. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.xml
    15. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar
    16. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar.index
    17. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.orig
    18. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.xml
    19. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/brms/ (entire folder)
    20. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/soa/ (entire folder)
    21. /opt/ngp/jboss-as-7.2.0.Final/modules/layers.conf
    22. Move /etc/sysctl.conf.pre-rpm to /etc/sysctl.conf
12. Some files may require merging to retain the custom configurations from the 2.0.3 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
13. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
14. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml
15. /opt/ngp/log/pmf/log.conf
16. There will be other files with diffs, but these are expected changes that are part of the 2.2 release, and we do not want to “undo” these changes.  For instance, these file diffs are expected:
17. /opt/ngp/bin/ngp (Update #2)
18. /opt/ngp/bin/start\_pmf.sh (Update #25)
19. /opt/ngp/bin/stop\_pmf.sh (Update #25)
20. Various PMF files including:   
    /opt/ngp/pmf/scripts/common/killUtils.inc, /opt/ngp/pmf/python/common/NGPPMFLogger.py, /opt/ngp/pmf/python/common/ngppmf.py, /opt/ngp/pmf/python/db/dbcontroller.py, /opt/ngp/pmf/python/jboss/JbossHornetQProcessMonitor.py, /opt/ngp/pmf/scripts/common/controllerUtils.inc, /opt/ngp/pmf/scripts/common/resource\_util\_task.sh, /opt/ngp/pmf/scripts/jboss/apps\_deployed.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss.sh
21. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-roles.properties (esbrest user)
22. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-users.properties (esbrest user)
23. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-roles.properties (esbrest user)
24. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-users.properties (esbrest user)
25. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
26. hornetq-rest.war will be added
27. /opt/ngp/bin/purge\_jboss\_logs.sh will be added
28. /opt/ngp/db/drop\_call\_data.sh will be added
29. Default /opt/ngp/config/drools\_engine config files will be added
30. Default /opt/ngp/config/network/jboss-webserver-security-protocol file will be added
31. PMF files will be added:   
    /opt/ngp/pmf/python/jboss/JbossHAHornetQProcessMonitor.py, /opt/ngp/pmf/scripts/common/kill\_java\_util\_processes.sh, /opt/ngp/pmf/scripts/common/start\_empty.sh, /opt/ngp/pmf/scripts/common/stop\_empty.sh, /opt/ngp/pmf/scripts/db/rocheck\_db.sh, /opt/ngp/pmf/scripts/db/rocheck.sh
32. /opt/ngp/esb, /opt/ngp/lnav, and /opt/ngp/util folders will be added with default content
33. Database files, sql files, ear/war files, log files, “-slc” files, etc are expected to change
34. Start the ngp service on the DB.
35. If the Revinfo Patch was not previously installed on the 2.0.3 system, access the Postgresql database using **psql** and issue the following commands.  (If you are not sure if the patch was installed previously, check the contents of the **config.dbversion** table.  If the table is empty, the Revinfo patch was not installed.)
36. “alter sequence hibernate\_sequence maxvalue 2147483647;”
37. “alter sequence probesipflowdetails\_id\_seq cycle;”
38. “alter sequence dtmfeventflowdetails\_id\_seq cycle;”
39. If the probesipflowdetails or dtmfeventflowdetails tables are not empty, truncate them with the commands “truncate master.probesipflowdetails” and/or “truncate master.dtmfeventflowdetails”.
40. “insert into config.dbversion values (0, 'config', <10 digit epoch>, 1);”   For “10 digit epoch” use the current 10 digit Linux epoch time value.  For example 1513656485.
41. “insert into config.dbversion values (1, 'master', <10 digit epoch + 1>, 3);”  For this command, add 1 to the epoch time used above.  For example 1513656486.
42. Check the **last\_value** of **hibernate\_sequence** using “select \* from hibernate\_sequence” to make sure it is not approaching the max\_value of 2147483647.  If it is over 1 billion, we may need to perform the procedure <https://securelogix.atlassian.net/wiki/spaces/NGP/pages/106266625/Resetting+the+Envers+Config+Policy+Revision+on+the+MS+DB> at some point.
43. On the MS:
44. Set the **/etc/yum/vars/product** and **/etc/yum/vars/release** variables to point to the 2.2 yum repo.
45. “yum clean metadata”
46. “yum groupupdate mediation”
47. Compare the backed up 2.0.3 **/opt/ngp/** contents to the current **/opt/ngp/** contents.  After untarring the backed up contents to a temporary location on the system, use commands such as “diff -r --brief /tmp/opt/ngp/ /opt/ngp/ | grep differ” to find configuration files which changed between the 2.0.3 installation and the 2.2 installation.  In general, the old 2.0.3 configuration files should be copied over the new “generic” configuration files that were installed as part of the 2.2 upgrade.  The command “diff -r --brief /tmp/opt/ngp/ /opt/ngp/ | grep -v differ |grep -v pyo |grep -v pyc” can also be used to find files that are present or not present in the new installation.  In most installations, the following files will need to be copied into the 2.2 installation from the backup directory:
48. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/apache/neethi/main/neethi-3.0.2.jar.index
49. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/apache/velocity/main/velocity-1.7.jar.index
50. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/apache/ws/xmlschema/main/xmlschema-core-2.0.2.jar.index
51. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hibernate/main/hibernate-core-4.2.0.CR1.jar.orig
52. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar
53. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar.index
54. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar
55. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar.index
56. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar
57. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar.index
58. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar
59. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar.index
60. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar
61. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar.index
62. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar
63. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar.index
64. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.orig
65. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.xml
66. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar
67. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar.index
68. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.orig
69. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.xml
70. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/jdom/main/jdom-1.1.2.jar.index
71. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/opensaml/main/opensaml-2.5.1-1.jar.index
72. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/opensaml/main/openws-1.4.2-1.jar.index
73. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/opensaml/main/xmltooling-1.3.2-1.jar.index
74. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/postgresql/main/postgresql-9.3-1100.jdbc41.jar.index
75. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/brms/ (entire folder)
76. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/soa/ (entire folder)
77. /opt/ngp/jboss-as-7.2.0.Final/modules/layers.conf
78. /opt/ngp/config/authentication/config.properties
79. /opt/ngp/config/authentication/dataLookup.properties
80. Move /etc/sysctl.conf.pre-rpm to /etc/sysctl.conf
81. Some files may require merging to retain the custom configurations from the 2.0.3 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
82. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
83. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml
84. /opt/ngp/log/pmf/log.conf
85. /opt/ngp/config/analytics/flowfactory/SipFlowFactory.drl (merge with SipFlowFactory.drl.rpmnew file)
86. /opt/ngp/config/drools\_engine config files
87. There will be other files with diffs, but these are expected changes that are part of the 2.2 release, and we do not want to “undo” these changes.  For instance, these file diffs are expected:
88. /opt/ngp/bin/controller.sh
89. /opt/ngp/bin/ngp (Update #2)
90. /opt/ngp/bin/start\_pmf.sh (Update #25)
91. /opt/ngp/bin/stop\_pmf.sh (Update #25)
92. /opt/ngp/pmf/scripts/common/killUtils.inc (Update #25)
93. Various PMF files including /opt/ngp/pmf/scripts/common/killUtils.inc, /opt/ngp/pmf/python/common/NGPPMFLogger.py, /opt/ngp/pmf/python/common/ngppmf.py, /opt/ngp/pmf/python/ms/mscontroller.py, /opt/ngp/pmf/python/ms/MediationController.py, /opt/ngp/pmf/python/jboss/JbossHornetQProcessMonitor.py, /opt/ngp/pmf/scripts/common/controllerUtils.inc, /opt/ngp/pmf/scripts/common/resource\_util\_task.sh, /opt/ngp/pmf/scripts/jboss/apps\_deployed.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss.sh, /opt/ngp/pmf/scripts/ms/file\_sync\_task.sh, /opt/ngp/pmf/scripts/ms/ms\_status\_task.sh, /opt/ngp/pmf/scripts/ms/run\_file\_sync.sh, /opt/ngp/pmf/scripts/ms/run\_ms\_status.sh, /opt/ngp/pmf/scripts/ms/start\_file\_sync.sh, /opt/ngp/pmf/scripts/ms/start\_ms\_status.sh, /opt/ngp/pmf/scripts/ms/start\_pgp.sh, /opt/ngp/pmf/scripts/ms/stop\_file\_sync.sh, /opt/ngp/pmf/scripts/ms/stop\_ms\_status.sh
94. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-roles.properties (esbrest user)
95. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-users.properties (esbrest user)
96. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-roles.properties (esbrest user)
97. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-users.properties (esbrest user)
98. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
99. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hibernate/main/hibernate-core-4.2.0.CR1.jar
100. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hibernate/main/hibernate-core-4.2.0.CR1.jar.index
101. /opt/ngp/config/authentication/setAhPassword.sh
102. /opt/ngp/config/security/server.p12
103. /opt/ngp/bin/jboss/hornetq-rest.war will be added
104. /opt/ngp/bin/jboss/orchestration-ear.ear will be added
105. /opt/ngp/bin/purge\_jboss\_logs.sh will be added
106. /opt/ngp/config/network/jboss-webserver-security-protocol will be added
107. /opt/ngp/config/security/setLdapPassword.sh will be added
108. PMF files will be added:   
     /opt/ngp/pmf/python/jboss/JbossHAHornetQProcessMonitor.py, /opt/ngp/pmf/scripts/common/kill\_java\_util\_processes.sh, /opt/ngp/pmf/scripts/common/start\_empty.sh, /opt/ngp/pmf/scripts/common/stop\_empty.sh, /opt/ngp/pmf/scripts/ms/ms\_db\_conn\_task.sh
109. /opt/ngp/esb, /opt/ngp/bin/orchestration, /opt/ngp/config/orchestration, /opt/ngp/lnav, and /opt/ngp/util folders will be added with default content
110. .niogit files, .index files, ear/war files, log files, etc are expected to change
111. Edit **/opt/ngp/config/orchestration/config.properties** file on the MS if desired.  The default **TIMEOUT\_SCALING** value of 1.0 and the default **THREAD\_POOL\_SIZE** value of 200 should be appropriate for most installations.
112. As part of the upgrade process, the KIE and Orchestration policy content will change, prompting the “merge.complete” processing in the **/opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh** script.  Therefore, the two curl commands in that script should be checked to verify that valid username/password pairs are listed.
113. Start the **ngp** service on the MS.
114. On each ENUM:
115. If not stopped previously, stop the **ngp** service on the ENUM server.
116. “yum erase apache-activemq-config”
117. Set the **/etc/yum/vars/product** and **/etc/yum/vars/release** variables to point to the 2.2 yum repo.
118. “yum clean metadata”
119. “yum groupupdate enum”
120. Compare the backed up 2.0.3 **/opt/ngp/** contents to the current **/opt/ngp/** content.  After untarring the backed up contents to a temporary location on the system, use commands such as “diff -r --brief /tmp/opt/ngp/ /opt/ngp/ | grep differ” to find configuration files which changed between the 2.0.3 installation and the 2.2 installation.  In general, the old 2.0.3 configuration files should be copied over the new “generic” configuration files that were installed as part of the 2.2 upgrade.  The command “diff -r --brief /tmp/opt/ngp/ /opt/ngp/ | grep -v differ |grep -v pyo |grep -v pyc” can also be used to find files that are present or not present in the new installation.  In most installations, the following files will need to be copied into the 2.2 installation from the backup directory:
121. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar
122. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar.index
123. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar
124. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar.index
125. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar
126. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar.index
127. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar
128. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar.index
129. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar
130. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar.index
131. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar
132. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar.index
133. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.orig
134. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.xml
135. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar
136. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar.index
137. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.orig
138. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.xml
139. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/brms/ (entire folder)
140. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/soa/ (entire folder)
141. /opt/ngp/jboss-as-7.2.0.Final/modules/layers.conf
142. /opt/ngp/config/jboss/jboss-securelogix-txtimeout
143. /opt/ngp/pmf/scripts/enum/start\_amq.sh
144. Move /etc/sysctl.conf.pre-rpm to /etc/sysctl.conf
145. Some files may require merging to retain the custom configurations from the 2.0.3 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
146. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
147. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml
148. /opt/ngp/log/pmf/log.conf
149. /opt/ngp/bin/enum/config.db (with /opt/ngp/bin/enum/config.db.rpmnew)
150. There will be other files with diffs, but these are expected changes that are part of the 2.2 release, and we do not want to “undo” these changes.  For instance, these file diffs are expected:
151. /opt/ngp/bin/ngp (Update #2)
152. /opt/ngp/bin/start\_pmf.sh (Update #25)
153. /opt/ngp/bin/stop\_pmf.sh (Update #25)
154. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
155. /opt/ngp/activemq/conf/camel.xml
156. /opt/ngp/bin/enum/updateNativeConfig.sh
157. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-roles.properties (esbrest user)
158. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-users.properties (esbrest user)
159. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-roles.properties (esbrest user)
160. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-users.properties (esbrest user)
161. Various PMF files including /opt/ngp/pmf/scripts/common/killUtils.inc, /opt/ngp/pmf/python/common/NGPPMFLogger.py, /opt/ngp/pmf/python/common/ngppmf.py, /opt/ngp/pmf/python/enum/enumcontroller.py, /opt/ngp/pmf/python/jboss/JbossHornetQProcessMonitor.py, /opt/ngp/pmf/scripts/common/controllerUtils.inc, /opt/ngp/pmf/scripts/common/resource\_util\_task.sh, /opt/ngp/pmf/scripts/jboss/apps\_deployed.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss.sh
162. /opt/ngp/bin/enum/fix\_enum\_python\_tabs.sh will be added
163. /opt/ngp/bin/jboss/hornetq-rest.war will be added
164. /opt/ngp/bin/purge\_jboss\_logs.sh will be added
165. Default /opt/ngp/config/drools\_engine config files will be added
166. /opt/ngp/config/network/jboss-webserver-security-protocol will be added
167. PMF files will be added: /opt/ngp/pmf/python/enum/amq.py, /opt/ngp/pmf/python/enum: EnumJbossProcessMonitor.py, /opt/ngp/pmf/python/jboss/JbossHAHornetQProcessMonitor.py, /opt/ngp/pmf/scripts/common/kill\_java\_util\_processes.sh, /opt/ngp/pmf/scripts/common/start\_empty.sh, /opt/ngp/pmf/scripts/common/stop\_empty.sh, /opt/ngp/pmf/scripts/enum/enum\_detached\_task.sh, /opt/ngp/pmf/scripts/enum/enum\_esb\_task.sh
168. /opt/ngp/esb, /opt/ngp/lnav, and /opt/ngp/util folders will be added with default content
169. kahadb, ear/war files, native executables, log files, “-slc” files, etc are expected to change
170. Start the ngp service on the ENUM
171. On each Probe:
172. If not stopped previously, stop the **ngp** service on the Probe server.
173. “yum erase apache-activemq-config”
174. Set the **/etc/yum/vars/product** and **/etc/yum/vars/release** variables to point to the 2.2 yum repo.
175. “yum clean metadata”
176. “yum groupupdate sniffer”
177. Compare the backed up 2.0.3 **/opt/ngp/** contents to the current **/opt/ngp/** contents.  After untarring the backed up contents to a temporary location on the system, use commands such as “diff -r --brief /tmp/opt/ngp/ /opt/ngp/ | grep differ” to find configuration files which changed between the 2.0.3 installation and the 2.2 installation.  In general, the old 2.0.3 configuration files should be copied over the new “generic” configuration files that were installed as part of the 2.2 upgrade.  The command “diff -r --brief /tmp/opt/ngp/ /opt/ngp/ | grep -v differ |grep -v pyo |grep -v pyc” can also be used to find files that are present or not present in the new installation.  In most installations, the following files will need to be copied into the 2.2 installation from the backup directory:
178. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar
179. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar.index
180. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar
181. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar.index
182. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar
183. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar.index
184. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar
185. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar.index
186. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar
187. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar.index
188. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar
189. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar.index
190. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.orig
191. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.xml
192. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar
193. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar.index
194. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.orig
195. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.xml
196. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/postgresql/main/postgresql-9.3-1100.jdbc41.jar.index
197. ngp/jboss-as-7.2.0.Final/modules/system/layers/brms/ (entire folder)
198. ngp/jboss-as-7.2.0.Final/modules/system/layers/soa/ (entire folder)
199. ngp/jboss-as-7.2.0.Final/modules/layers.conf
200. /opt/ngp/config/jboss/jboss-securelogix-txtimeout
201. /opt/ngp/pmf/scripts/sniffer/start\_amq.sh
202. Move /etc/sysctl.conf.pre-rpm to /etc/sysctl.conf
203. Some files may require merging to retain the custom configurations from the 2.0.3 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
204. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
205. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml
206. /opt/ngp/log/pmf/log.conf
207. /opt/ngp/bin/sniffer/config.db (with /opt/ngp/bin/sniffer/config.db.rpmnew)
208. There will be other files with diffs, but these are expected changes that are part of the 2.2 release, and we do not want to “undo” these changes.  For instance, these file diffs are expected:
209. /opt/ngp/bin/ngp (Update #2)
210. /opt/ngp/bin/start\_pmf.sh (Update #25)
211. /opt/ngp/bin/stop\_pmf.sh (Update #25)
212. /opt/ngp/pmf/scripts/common/killUtils.inc (Update #25)
213. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
214. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-roles.properties (esbrest user)
215. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-users.properties (esbrest user)
216. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-roles.properties (esbrest user)
217. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-users.properties (esbrest user)
218. Various PMF files including:   
     /opt/ngp/pmf/scripts/common/killUtils.inc, /opt/ngp/pmf/python/common/NGPPMFLogger.py, /opt/ngp/pmf/python/common/ngppmf.py, /opt/ngp/pmf/python/db/dbcontroller.py, /opt/ngp/pmf/python/sniffer/sniffercontroller.py, /opt/ngp/pmf/python/jboss/JbossHornetQProcessMonitor.py, /opt/ngp/pmf/scripts/common/controllerUtils.inc, /opt/ngp/pmf/scripts/common/resource\_util\_task.sh, /opt/ngp/pmf/scripts/jboss/apps\_deployed.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss.sh
219. /opt/ngp/bin/enum/updateNativeConfig.sh
220. /opt/ngp/activemq/conf/camel.xml
221. /opt/ngp/bin/jboss/hornetq-rest.war will be added
222. /opt/ngp/bin/purge\_jboss\_logs.sh will be added
223. Default /opt/ngp/config/drools\_engine config files will be added
224. /opt/ngp/config/network/jboss-webserver-security-protocol will be added
225. PMF files will be added:   
     /opt/ngp/pmf/python/sniffer/amq.py, /opt/ngp/pmf/python/jboss/JbossHAHornetQProcessMonitor.py, /opt/ngp/pmf/scripts/common/kill\_java\_util\_processes.sh, /opt/ngp/pmf/scripts/common/start\_empty.sh, /opt/ngp/pmf/scripts/common/stop\_empty.sh, /opt/ngp/pmf/scripts/db/rocheck\_db.sh, /opt/ngp/pmf/scripts/db/rocheck.sh, /opt/ngp/pmf/scripts/sniffer/sniffer\_esb\_task.sh
226. /opt/ngp/esb, /opt/ngp/lnav, and /opt/ngp/util folders will be added with default content
227. kahadb, DB files, ear/war files, native executable, log files, “-slc” files, etc are expected to change
228. Start the **ngp** service on the Probe.

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