Upgrading from v2.0.2 to v2.2 of the PolicyGuru® Meta-Policy Controller

To upgrade the PolicyGuru® components from v2.0.2 to v2.2

1. Before starting the upgrade procedure, carry out Update #11 on the 2.0.2 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 2.2 yum repo.
9. “yum clean metadata”
10. “yum groupupdate database”
11. Compare the backed up 2.0.2 **/opt/ngp/** contents to the current 2.2 **/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 2.0.2 installation and the 2.2 installation.  In general, the old 2.0.2 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 2.0.2 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
	1. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
	2. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml
	3. /opt/ngp/log/pmf/log.conf
13. 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:
	1. /opt/ngp/bin/ngp (Update #2)
	2. /opt/ngp/bin/start\_pmf.sh (Update #25)
	3. /opt/ngp/bin/stop\_pmf.sh (Update #25)
	4. 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/java\_util\_task.sh, /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
	5. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-roles.properties (esbrest user)
	6. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-users.properties (esbrest user)
	7. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-roles.properties (esbrest user)
	8. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-users.properties (esbrest user)
	9. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
	10. hornetq-rest.war will be added
	11. /opt/ngp/bin/purge\_jboss\_logs.sh will be added
	12. /opt/ngp/db/drop\_call\_data.sh will be added
	13. Default /opt/ngp/config/drools\_engine config files will be added
	14. Default /opt/ngp/config/network/jboss-webserver-security-protocol file will be added
	15. 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
	16. /opt/ngp/esb, /opt/ngp/lnav, and /opt/ngp/util folders will be added with default content
	17. Database files, sql files, ear/war files, log files, “-slc” files, etc are expected to change
14. Start the **ngp** service on the DB.
15. If the Revinfo Patch was not previously installed on the 2.0.2 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.)
	1. “alter sequence hibernate\_sequence maxvalue 2147483647;”
	2. “alter sequence probesipflowdetails\_id\_seq cycle;”
	3. “alter sequence dtmfeventflowdetails\_id\_seq cycle;”
	4. If the probesipflowdetails or dtmfeventflowdetails tables are not empty, truncate them with the commands “truncate master.probesipflowdetails” and/or “truncate master.dtmfeventflowdetails”.
	5. “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.
	6. “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.
	7. 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](https://securelogix.atlassian.net/wiki/spaces/NGP/pages/106266625/Resetting%2Bthe%2BEnvers%2BConfig%2BPolicy%2BRevision%2Bon%2Bthe%2BMS%2BDB) at some point.
16. On the MS:
17. Set the **/etc/yum/vars/product** and **/etc/yum/vars/release** variables to point to the 2.2 yum repo.
18. “yum clean metadata”
19. “yum groupupdate mediation”
20. Compare the backed up 2.0.2 **/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 2.0.2 installation and the 2.2 installation.  In general, the old 2.0.2 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/apache/neethi/main/neethi-3.0.2.jar.index
	2. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/apache/velocity/main/velocity-1.7.jar.index
	3. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/apache/ws/xmlschema/main/xmlschema-core-2.0.2.jar.index
	4. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hibernate/main/hibernate-core-4.2.0.CR1.jar.orig
	5. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar
	6. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar.index
	7. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar
	8. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar.index
	9. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar
	10. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar.index
	11. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar
	12. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar.index
	13. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar
	14. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar.index
	15. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar
	16. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar.index
	17. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.orig
	18. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.xml
	19. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar
	20. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar.index
	21. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.orig
	22. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.xml
	23. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/jdom/main/jdom-1.1.2.jar.index
	24. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/opensaml/main/opensaml-2.5.1-1.jar.index
	25. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/opensaml/main/openws-1.4.2-1.jar.index
	26. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/opensaml/main/xmltooling-1.3.2-1.jar.index
	27. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/postgresql/main/postgresql-9.3-1100.jdbc41.jar.index
	28. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/brms/ (entire folder)
	29. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/soa/ (entire folder)
	30. /opt/ngp/jboss-as-7.2.0.Final/modules/layers.conf
	31. Move /etc/sysctl.conf.pre-rpm to /etc/sysctl.conf
21. Some files may require merging to retain the custom configurations from the 2.0.2 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
	1. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
	2. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml
	3. /opt/ngp/config/orchestration/config.properties (The user can stay with the trimmed down 2.2 version of this file.  The resulting file after should contain only the TIMEOUT\_SCALING and THREAD\_POOL\_SIZE settings.)
	4. /opt/ngp/log/pmf/log.conf
	5. /opt/ngp/config/analytics/flowfactory/SipFlowFactory.drl (merge with SipFlowFactory.drl.rpmnew file)
	6. /opt/ngp/config/drools\_engine config files
22. 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:
	1. /opt/ngp/bin/controller.sh
	2. /opt/ngp/bin/ngp (Update #2)
	3. /opt/ngp/bin/start\_pmf.sh (Update #25)
	4. /opt/ngp/bin/stop\_pmf.sh (Update #25)
	5. /opt/ngp/config/authentication/config.properties
	6. /opt/ngp/pmf/scripts/common/killUtils.inc (Update #25)
	7. 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
	8. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-roles.properties (esbrest user)
	9. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-users.properties (esbrest user)
	10. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-roles.properties (esbrest user)
	11. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-users.properties (esbrest user)
	12. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
	13. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hibernate/main/hibernate-core-4.2.0.CR1.jar
	14. /opt/ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hibernate/main/hibernate-core-4.2.0.CR1.jar.index
	15. /opt/ngp/config/authentication/setAhPassword.sh
	16. /opt/ngp/config/authentication/dataLookup.properties
	17. /opt/ngp/config/security/server.p12
	18. /opt/ngp/bin/jboss/hornetq-rest.war will be added
	19. /opt/ngp/bin/jboss/orchestration-ear.ear will be added
	20. /opt/ngp/bin/purge\_jboss\_logs.sh will be added
	21. /opt/ngp/config/network/jboss-webserver-security-protocol will be added
	22. /opt/ngp/config/security/setLdapPassword.sh will be added
	23. 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
	24. /opt/ngp/esb, /opt/ngp/lnav, and /opt/ngp/util folders will be added with default content
	25. .niogit files, .index files, ear/war files, log files, etc are expected to change
23. Edit the **/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.
24. 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.
25. Start the **ngp** service on the MS.
26. On each ENUM:
27. If not stopped previously, stop the **ngp** service on the ENUM server.
28. “yum erase apache-activemq-config”
29. Set the /etc/yum/vars/product and /etc/yum/vars/release variables to point to the 2.2 yum repo.
30. “yum clean metadata”
31. “yum groupupdate enum”
32. Compare the backed up 2.0.2 **/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 2.0.2 installation and the 2.2 installation.  In general, the old 2.0.2 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. /opt/ngp/config/jboss/jboss-securelogix-txtimeout
	23. /opt/ngp/pmf/scripts/enum/start\_amq.sh
	24. Move /etc/sysctl.conf.pre-rpm to /etc/sysctl.conf
33. Some files may require merging to retain the custom configurations from the 2.0.2 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
	1. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
	2. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml
	3. /opt/ngp/log/pmf/log.conf
	4. /opt/ngp/bin/enum/config.db (with /opt/ngp/bin/enum/config.db.rpmnew)  We can use the existing config.db and add the immediateDnsResponse value.
34. 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:
	1. /opt/ngp/bin/ngp (Update #2)
	2. /opt/ngp/bin/start\_pmf.sh (Update #25)
	3. /opt/ngp/bin/stop\_pmf.sh (Update #25)
	4. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
	5. /opt/ngp/activemq/conf/camel.xml
	6. /opt/ngp/bin/enum/updateNativeConfig.sh
	7. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-roles.properties (esbrest user)
	8. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-users.properties (esbrest user)
	9. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-roles.properties (esbrest user)
	10. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-users.properties (esbrest user)
	11. 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/jboss\_port\_task.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss.sh
	12. /opt/ngp/bin/enum/fix\_enum\_python\_tabs.sh will be added
	13. /opt/ngp/bin/jboss/hornetq-rest.war will be added
	14. /opt/ngp/bin/purge\_jboss\_logs.sh will be added
	15. Default /opt/ngp/config/drools\_engine config files will be added
	16. /opt/ngp/config/network/jboss-webserver-security-protocol will be added
	17. 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
	18. /opt/ngp/esb, /opt/ngp/lnav, and /opt/ngp/util folders will be added with default content
	19. kahadb, ear/war files, native executables, log files, “-slc” files, etc are expected to change
35. Start the ngp service on the ENUM
36. On each Probe:
37. If not stopped previously, stop the **ngp** service on the Probe server.
38. “yum erase apache-activemq-config”
39. Set the **/etc/yum/vars/product** and **/etc/yum/vars/release** variables to point to the 2.2 yum repo.
40. “yum clean metadata”
41. “yum groupupdate sniffer”
42. Compare the backed up 2.0.2 **/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 2.0.2 installation and the 2.2 installation.  In general, the old 2.0.2 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. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar
	2. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-commons-2.3.25.Final.jar.index
	3. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar
	4. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-core-client-2.3.25.Final.jar.index
	5. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar
	6. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-client-2.3.25.Final.jar.index
	7. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar
	8. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-jms-server-2.3.25.Final.jar.index
	9. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar
	10. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-journal-2.3.25.Final.jar.index
	11. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar
	12. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/hornetq-server-2.3.25.Final.jar.index
	13. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.orig
	14. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/main/module.xml
	15. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar
	16. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/hornetq-ra-2.3.25.Final.jar.index
	17. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.orig
	18. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/hornetq/ra/main/module.xml
	19. ngp/jboss-as-7.2.0.Final/modules/system/layers/base/org/postgresql/main/postgresql-9.3-1100.jdbc41.jar.index
	20. ngp/jboss-as-7.2.0.Final/modules/system/layers/brms/ (entire folder)
	21. ngp/jboss-as-7.2.0.Final/modules/system/layers/soa/ (entire folder)
	22. ngp/jboss-as-7.2.0.Final/modules/layers.conf
	23. /opt/ngp/config/jboss/jboss-securelogix-txtimeout
	24. /opt/ngp/pmf/scripts/sniffer/start\_amq.sh
	25. Move /etc/sysctl.conf.pre-rpm to /etc/sysctl.conf
43. Some files may require merging to retain the custom configurations from the 2.0.2 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
	1. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
	2. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml
	3. /opt/ngp/log/pmf/log.conf
	4. /opt/ngp/bin/sniffer/config.db (with /opt/ngp/bin/sniffer/config.db.rpmnew)  Likely nothing to merge, so the existing config.db file can be kept.
44. 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:
	1. /opt/ngp/bin/ngp (Update #2)
	2. /opt/ngp/bin/start\_pmf.sh (Update #25)
	3. /opt/ngp/bin/stop\_pmf.sh (Update #25)
	4. /opt/ngp/pmf/scripts/common/killUtils.inc (Update #25)
	5. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
	6. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-roles.properties (esbrest user)
	7. /opt/ngp/jboss-as-7.2.0.Final/domain/configuration/application-users.properties (esbrest user)
	8. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-roles.properties (esbrest user)
	9. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/application-users.properties (esbrest user)
	10. 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/jboss\_port\_task.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh, /opt/ngp/pmf/scripts/jboss/start\_jboss.sh
	11. /opt/ngp/bin/enum/updateNativeConfig.sh
	12. /opt/ngp/activemq/conf/camel.xml
	13. /opt/ngp/bin/jboss/hornetq-rest.war will be added
	14. /opt/ngp/bin/purge\_jboss\_logs.sh will be added
	15. Default /opt/ngp/config/drools\_engine config files will be added
	16. /opt/ngp/config/network/jboss-webserver-security-protocol will be added
	17. 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
	18. /opt/ngp/esb, /opt/ngp/lnav, and /opt/ngp/util folders will be added with default content
	19. kahadb, DB files, ear/war files, native executable, log files, “-slc” files, etc are expected to change
45. Start the **ngp** service on the Probe.

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