Upgrading from v2.1.1 to v2.2 of the PolicyGuru® Meta-Policy Controller

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

1. Back up **/opt/ngp/** and other configuration files on each system using the procedures from the System Recovery document.
2. Back up the database contents using the procedure from the System Recovery document.
3. Stop the **ngp** service on the MS
4. Stop the **ngp** service on the DB
5. Optionally stop the **ngp** service on the ENUM and Probe servers.  This can be postponed until upgrading each specific ENUM/Probe server if desired.
6. On the DB:
7. Set the **/etc/yum/vars/product** and **/etc/yum/vars/release** variables to point to the 2.2 yum repo.
8. “yum clean metadata”
9. “yum groupupdate database”
10. “yum update ngp-esb”
11. Compare the backed up 2.1.1 **/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 2.1.1 installation and the 2.2 installation.  In general, the old 2.1.1 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 typically need to be copied into the 2.2 installation from the backup directory:
	1. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml (if there are non-cosmetic diffs)
12. Some files may require merging to retain the custom configurations from the 2.1.1 installation, but also pick up any new changes from 2.2.  The following files should be investigated for merging or possibly straight copy from 2.1.1 to 2.2:
13. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
14. /opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh (stay with the new file unless there are previous deployment-specific changes)
15. 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:
16. /opt/ngp/bin/start\_pmf.sh
17. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
18. Drools\_engine properties files will be added if not already present
19. /opt/ngp/config/network/jboss-webserver-security-protocol file will be added if not already present
20. Database files, sql files, ear/war files, log files, “-slc” files, etc are expected to change
21. Start the **ngp** service on the DB.
22. On the MS:
23. Set the **/etc/yum/vars/product** and **/etc/yum/vars/release** variables to point to the 2.2 yum repo.
24. “yum clean metadata”
25. “yum groupupdate mediation”
26. Compare the backed up 2.1.1 **/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 2.1.1 installation and the 2.2 installation.  In general, the old 2.1.1 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:
27. /opt/ngp/config/authentication/config.properties
28. /opt/ngp/config/authentication/dataLookup.properties
29. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml (if there are non-cosmetic diffs)
30. Some files may require merging to retain the custom configurations from the 2.1.1 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
31. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
32. /opt/ngp/config/orchestration/config.properties (The user can stay with the trimmed down 2.2 version of this file)
33. /opt/ngp/config/analytics/flowfactory/SipFlowFactory.drl (if there are diffs)
34. /opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh
35. Drools properties files that already exist may need to be merged to get best engine performance (Scaling factors should probably stay as in previous build, but other new settings can be retained.  Please ask for guidance if needed.)
36. 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:
37. /opt/ngp/bin/start\_pmf.sh
38. /opt/ngp/config/authentication/setAhPassword.sh
39. /opt/ngp/bin/kie/merge.complete will be added
40. /opt/ngp/bin/orchestration/merge.complete will be added
41. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
42. Drools\_engine properties files will be added if not already present
43. /opt/ngp/config/network/jboss-webserver-security-protocol file will be added if not already present
44. /opt/ngp/config/security/setLdapPassword.sh will be added
45. .niogit files, .index files, ear/war files, log files, etc are expected to change
46. Default Drools Engine config files are added as part of this upgrade.  Previously existing Drools Engine config files should be copied in or merged in from the backup directory.  For engines without a previously existing config file, the default config file may need to be edited to ensure proper performance.
47. 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.  The username/password pair may be obfuscated using the SLC Password Vault.
48. The **internal.bind\_dn**, **internal.bind\_password**, **external.bind\_dn**, and **external.bind\_password** settings in the **/opt/ngp/config/security/ldap.properties** file are now expected to be obfuscated in this release using the **/opt/ngp/config/security/setLdapPassword.sh** script.  Cleartext values in those fields will no longer work for user login.  Existing values or new values must be added/edited using the **setLdapPassword.sh** script.
49. The **/opt/ngp/config/network/jboss-webserver-security-protocol** has been added in this release and set to TLSv1.2.  This setting should be left at TLSv1.2 unless a different specific setting is required.
50. Start the **ngp** service on the MS.
51. Once the system starts, log in and execute a **Build and Deploy** for IPS policy (if it is installed).
52. On each ENUM:
53. If not stopped previously, stop the **ngp** service on the ENUM server.
54. Set the **/etc/yum/vars/product** and **/etc/yum/vars/release** variables to point to the 2.2 yum repo.
55. “yum clean metadata”
56. “yum groupupdate enum”
57. Compare the backed up 2.1.1 **/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 2.1.1 installation and the 2.2 installation.  In general, the old 2.1.1 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:
58. /opt/ngp/config/jboss/jboss-securelogix-txtimeout
59. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml (if there are non-cosmetic diffs)
60. /opt/ngp/pmf/scripts/enum/start\_amq.sh
61. Some files may require merging to retain the custom configurations from the 2.1.1 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
62. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
63. 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:
64. /opt/ngp/bin/start\_pmf.sh
65. /opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh
66. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
67. Drools\_engine properties files will be added if not already present
68. /opt/ngp/config/network/jboss-webserver-security-protocol file will be added if not already present
69. kahadb, ear/war files, native executables, log files, “-slc” files, etc are expected to change
70. Start the **ngp** service on the ENUM.
71. On each Probe:
72. If not stopped previously, stop the **ngp** service on the Probe server.
73. Set the **/etc/yum/vars/product** and **/etc/yum/vars/release** variables to point to the 2.2 yum repo.
74. “yum clean metadata”
75. “yum groupupdate sniffer” or “yum groupupdate sniffer\_dtmf”
76. Compare the backed up 2.1.1 **/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 2.1.1 installation and the 2.2 installation.  In general, the old 2.1.1 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:
77. /opt/ngp/config/jboss/jboss-securelogix-txtimeout
78. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/standalone-full.xml (if there are non-cosmetic diffs)
79. /opt/ngp/pmf/scripts/sniffer/start\_amq.sh
80. Some files may require merging to retain the custom configurations from the 2.1.1 installation, but also pick up the new changes from 2.2.  The following files should be investigated for merging:
81. /opt/ngp/jboss-as-7.2.0.Final/bin/standalone.conf
82. 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:
83. /opt/ngp/bin/start\_pmf.sh
84. /opt/ngp/pmf/scripts/jboss/start\_jboss\_apps.sh
85. /opt/ngp/jboss-as-7.2.0.Final/standalone/configuration/logging.properties
86. Drools\_engine properties files will be added if not already present
87. /opt/ngp/config/network/jboss-webserver-security-protocol file will be added if not already present
88. kahadb, DB files, ear/war files, native executable, log files, “-slc” files, etc are expected to change
89. Start the **ngp** service on the Probe.

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