|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Deployment specific instructions to accompany every deployment request.** | | | | |
| **Application and Submitter Information** | | | | |
| Author Name & Phone # | | Himanso Sahni  301 451 6347 | Date | 11/30/2009 |
| Application / Product Name | | Rembrandt | Version Number | 1.5.4.1 |
| Government Sponsor Name & Phone # | | Anand Basu | QA Sponsor Name & Phone # | Madhavi Kambampati  301- 443- 6254 |
| **General Information** *(all information beyond this point is optional unless noted “Required”, leave the field blank if it does not apply to the product)* | | | | |
| Background | References for additional information if needed by the deployment team. For example, Gforge documentation URL, Design Document URL, etc. | | | |
| Hardware | Operating System: (select one)  Solaris  x Linux  Minimum Required **dedicated** RAM: 2 GB  This allows the Systems Group to maximize hardware use while achieving application performance goal | | | |
| JBoss | (select one)  JBoss 4.0.2 / Tomcat -5.5.9 / JDK 1.5.0\_04   JBoss 4.0.4 / Tomcat -5.5.17 / JDK 1.5.0\_06  X JBoss 4.0.5 / Tomcat -5.5.20 / JDK 1.5.0\_10 (Future Stack)  Other: (please specify) | | | |
| CaGRID | (select one)  caGRID 1.0 Security Enable (Globus 4.0.3/Tomcat-5.0.28)  caGRID 1.0 (Globus 4.0.3/Tomcat-5.0.28)  Other: (please specify) | | | |
| Database | (select one)  Oracle 9.2.0.6 (on Solaris) X Oracle 10.x (on Linux)  MySQL 4.1.19 MySQL 5.0.27 (Future)  PostgreSQL 8.1.3 PostgreSQL 8.2.1 (Future)  Other: (please specify) | | | |
| External Dependencies | caIntegrator Analysis Server  WebGenome server  Gene Pattern Server  caBIO 3.1  LPG  caArray Java API | | | |
| FTP | Explain the FTP environment needed. Include secure/non-secure requirements, space allocation, estimated growth rate and file retention period. | | | |
| **Deployment Units** | | | | |
| Archive files | | rembrandt.war | | |
| JBoss Property File Updates | |  | | |
| Other Configuration Files | | *Gene pattern server URL*  Please see Setup & Configure Externalized Properties section | | |
| **Configuration Directives** | | | | |
| Container Configuration | | JAVA\_OPTS="-server -Xms2048m -Xmx2048m -XX:ThreadStackSize=128 -XX:SurvivorRatio=10 -XX:PermSize=128m -XX:MaxPermSize=128m -Dsun.rmi.dgc.client.gcInterval=3600000 -Dsun.rmi.dgc.server.gcInterval=3600000 -Djava.awt.headless=true" | | |
| Logging | | Add the following to the $JBOSS\_INSTANCE/conf/log4j.xml  <!-- ============================= -->  <!-- CAINTEGRATOR APPENDERS -->  <!-- ============================= -->    <appender name="CAINTEGRATOR\_FILE" class="org.apache.log4j.DailyRollingFileAppender">  <param name="File" value="${jboss.server.home.dir}/log/caIntegrator.log"/>  <param name="Append" value="true"/>  <param name="Threshold" value="DEBUG"/>  <layout class="org.apache.log4j.PatternLayout">  <param name="ConversionPattern" value="%d %-5p [%c] %m%n"/>  </layout>  </appender>      <appender name="CAINTEGRATOR\_CONSOLE" class="org.apache.log4j.ConsoleAppender">  <param name="Target" value="System.out"/>  <param name="Threshold" value="DEBUG"/>  <layout class="org.apache.log4j.PatternLayout">  <param name="ConversionPattern" value="%d{ABSOLUTE} %-5p [%c{1}] %m%n"/>  </layout>  </appender>    <!-- ============================= -->  <!-- REMBRANDT APPENDERS -->  <!-- ============================= -->    <appender name="REMBRANDT\_FILE" class="org.apache.log4j.DailyRollingFileAppender">  <param name="File" value="${jboss.server.log.dir}/rembrandt.log"/>  <param name="Append" value="true"/>  <param name="MaxFileSize" value="500KB"/>  <param name="MaxBackupIndex" value="4"/>  <param name="Threshold" value="DEBUG"/>  <layout class="org.apache.log4j.PatternLayout">  <param name="ConversionPattern" value="%d %-5p [%c] %m%n"/>  </layout>  </appender>    <appender name="REMBRANDT\_CONSOLE" class="org.apache.log4j.ConsoleAppender">  <!-- <errorHandler class="org.jboss.logging.util.OnlyOnceErrorHandler"/> -->  <param name="Target" value="System.out"/>  <!-- Modify this to TRACE,DEBUG,WARN,ERROR -->  <param name="Threshold" value="DEBUG"/>  <layout class="org.apache.log4j.PatternLayout">  <!-- The default pattern: Date Priority [Category] Message\n -->  <param name="ConversionPattern" value="%d %-5p [%c] %m%n"/>  </layout>  </appender>  <!-- ========================================= -->  <!-- ========================================= -->  <!-- CAINTEGRATOR CATEGORIES AFTER ALL APPENDERS -->  <!-- ========================================= -->    <!-- Default category for Analysis Server. Used where no logger is declared -->  <category name="gov.nih.nci.caintegrator.analysis" additivity="false">  <level value="WARN"/>  <appender-ref ref="CAINTEGRATOR\_FILE"/>  <appender-ref ref="CAINTEGRATOR\_CONSOLE"/>  </category>    <!-- Default category for Analysis Server. Used where no logger is declared -->  <category name="gov.nih.nci.caintegrator.application.analysis" additivity="false">  <level value="WARN"/>  <appender-ref ref="CAINTEGRATOR\_FILE"/>  <appender-ref ref="CAINTEGRATOR\_CONSOLE"/>  </category>  <!-- Default category for caintegrator. Used where no logger is declared -->  <category name="gov.nih.nci.caintegrator" additivity="false">  <level value="WARN"/>  <appender-ref ref="CAINTEGRATOR\_FILE"/>  <appender-ref ref="CAINTEGRATOR\_CONSOLE"/>  </category>  <!-- Default category for caintegrator. Used where no logger is declared -->  <category name="gov.nih.nci.security" additivity="false">  <level value="WARN"/>  <appender-ref ref="CAINTEGRATOR\_FILE"/>  <appender-ref ref="CAINTEGRATOR\_CONSOLE"/>  </category>  <!-- Default category for caintegrator. Used where no logger is declared -->  <category name="gov.nih.nci.caintegrator.security" additivity="false">  <level value="WARN"/>  <appender-ref ref="CAINTEGRATOR\_FILE"/>  <appender-ref ref="CAINTEGRATOR\_CONSOLE"/>  </category>  <!-- ====================================== -->    <!-- ====================================== -->  <!-- REMBRANDT CATEGORIES AFTER ALL APPENDERS -->  <!-- ====================================== -->    <!-- Default category for Rembrandt. Used where no logger is declared -->  <category name="gov.nih.nci.rembrandt" additivity="false">  <level value="ERROR"/>  <appender-ref ref="REMBRANDT\_FILE"/>  </category>    <!-- OJB LOGGING -->  <!-- Default logger for OJB. Used where no logger is declared -->  <category name="org.apache.ojb" additivity="false">  <level value="ERROR"/>  <appender-ref ref="REMBRANDT\_FILE"/>  <appender-ref ref="REMBRANDT\_CONSOLE"/>  </category>  <!-- Logger for PersistenceBrokerFactory class -->  <category name="org.apache.ojb.broker.core.PersistenceBrokerImpl" additivity="false">  <level value="ERROR"/>  <appender-ref ref="REMBRANDT\_FILE"/>  <appender-ref ref="REMBRANDT\_CONSOLE"/>  </category>    <!-- Logger for RepositoryXmlHandler, useful for debugging parsing of repository.xml -->  <category name="org.apache.ojb.broker.metadata.RepositoryXmlHandler" additivity="false">  <level value="WARN"/>  <appender-ref ref="REMBRANDT\_FILE"/>  <appender-ref ref="REMBRANDT\_CONSOLE"/>  </category>    <!-- category for JdbcAccess, useful for debugging JDBC related problems -->  <category name="org.apache.ojb.broker.accesslayer.JdbcAccessImpl" additivity="false">  <level value="WARN"/>  <appender-ref ref="REMBRANDT\_FILE"/>  <appender-ref ref="REMBRANDT\_CONSOLE"/>  </category>    <!-- category for RsIterator, useful for debugging problems with Object materialization -->  <category name="org.apache.ojb.broker.accesslayer.RsIterator" additivity="false">  <level value="WARN"/>  <appender-ref ref="REMBRANDT\_FILE"/>  <appender-ref ref="REMBRANDT\_CONSOLE"/>  </category>    <!-- category for StatementsForClass, useful for debugging JDBC Connection related problems -->  <logger name="org.apache.ojb.broker.accesslayer.StatementsForClassImpl" additivity="false">  <level value="WARN"/>  <appender-ref ref="REMBRANDT\_FILE"/>  <appender-ref ref="REMBRANDT\_CONSOLE"/>  </logger>    <!-- category for SqlGenerator, useful for debugging generation of SQL -->  <logger name="org.apache.ojb.broker.accesslayer.sql.SqlGeneratorDefaultImpl" additivity="false">  <level value="WARN"/>  <appender-ref ref="REMBRANDT\_FILE"/>  <appender-ref ref="REMBRANDT\_CONSOLE"/>  </logger>  <!-- category for RepositoryPersistor -->  <logger name="org.apache.ojb.broker.metadata.RepositoryPersistor" additivity="false">  <level value="WARN"/>  <appender-ref ref="REMBRANDT\_FILE"/>  <appender-ref ref="REMBRANDT\_CONSOLE"/>  </logger>    <!-- category for PersistenceBrokerFactoryDefaultImpl -->  <category name="org.apache.ojb.broker.core.PersistenceBrokerFactoryDefaultImpl" additivity="false">  <level value="WARN"/>  <appender-ref ref="REMBRANDT\_FILE"/>  <appender-ref ref="REMBRANDT\_CONSOLE"/>  </category>    <!-- category for ConnectionFactory -->  <category name="org.apache.ojb.broker.accesslayer.ConnectionFactoryAbstractImpl" additivity="false">  <level value="WARN"/>  <appender-ref ref="REMBRANDT\_FILE"/>  <appender-ref ref="REMBRANDT\_CONSOLE"/>  </category>    <!-- =========================== --> | | |
| External Datasource | | **Configure oracle-ds.xml for rembrandt and rembrandtcsm.**  Note the **jdbc:url**, **user name** and **password** should be same as in the externalized properties section below  Copy the following contents in to $JBOSS\_INSTANCE/deploy/oracle-ds.xml  <local-tx-datasource>  <jndi-name>**rembrandt**</jndi-name>  <connection-url>**jdbc:url**</connection-url>  <user-name>**user name**</user-name>  <password>**password**</password>  <driver-class>oracle.jdbc.driver.OracleDriver</driver-class>  <exception-sorter-class-name>  org.jboss.resource.adapter.jdbc.vendor.OracleExceptionSorter  </exception-sorter-class-name>  </local-tx-datasource>  <local-tx-datasource>  <jndi-name>**rembrandtcsm**</jndi-name>  <connection-url>**jdbc:url**</connection-url>  <user-name>**user name**</user-name>  <password>**password**</password>  <driver-class>oracle.jdbc.driver.OracleDriver</driver-class>  <exception-sorter-class-name>  org.jboss.resource.adapter.jdbc.vendor.OracleExceptionSorter  </exception-sorter-class-name>  </local-tx-datasource> | | |
| Authentication Module (e.g. JAAS) | | **See section** JBoss Property File Updates | | |
| Java Message Service (JMS) | | **Setup JMS Configuration Files.**  1. From build artifacts, Copy file “caintegrator-jbossmq-destinations-service“ to <JBOSS\_HOME>/server/<JBOSS\_INSTANCE>/deploy/jms folder.  2. From build artifacts, Copy file “rembrandt-jbossmq-destinations-service“ to <JBOSS\_HOME>/server/<JBOSS\_INSTANCE>/deploy/jms folder. | | |
| Properties-services | | 1. Edit $JBOSS\_INSTANCE/deploy/properties-service file, Scroll down to “<mbean code="org.jboss.varia.property.SystemPropertiesService" name="jboss:type=Service,name=SystemProperties"> node.  2. Add the following **2 new properties** inside the node (use provided rembrandt-properties-service.xml as skeleton)  <attribute name="Properties">           gov.nih.nci.rembrandt.properties=/local/content/rembrandt/config/rembrandt.properties            **gov.nih.nci.rembrandtData.properties=/local/content/rembrandt/config/rembrandtData.properties rembrandt.application.releaseNotes=/local/content/rembrandt/config/releaseNotes.html**  </attribute>  <attribute name="Properties"> gov.nih.nci.wgi.properties=/local/content/rembrandt/config/WGI.properties  </attribute> | | |
| Setup & Configure Externalized Properties | | Configure OBJ db properties for Rembrandt1. Create /local/content/rembrandt/ with the following subdirectories:/local/content/rembrandt/brb/local/content/rembrandt/cache/local/content/rembrandt/config/local/content/rembrandt/downloaded-caarray-files/local/content/rembrandt/ehcache/local/content/rembrandt/zipped-caarray-files2. Changes to the existing rembrandt.properties file at /local/content/Rembrandt/config/:Add the following to Rembrandt.properties:#APP Version and daterembrandt.application.version=1.5.4.1# Enter Deployment Daterembrandt.application.releaseDate=11-30-2009Should be changed to the deployment date in this format mm-dd-yyyy3. Add the following to the Rembrandt.properties file:#caarray rembrandt.caarray.api.version=2.3# Analysis Server Data Files# For unix deploymentgov.nih.nci.rembrandt.data\_directory=/local/content/rembrandt/data/gov.nih.nci.rembrandt.affy\_data\_matrix=Rembrandt\_mas5.dataMatrix\_9-18-08.Rdagov.nih.nci.rembrandt.affy\_data\_annotation=Rembrandt.hgu133plus2.annotation.Rdagov.nih.nci.rembrandt.cdna\_data\_matrix=Rembrandt\_cDNA\_dataMatrix.Rdagov.nih.nci.rembrandt.unifiedGene\_data\_matrix=Rembrandt\_as3p.dataMatrix\_9-18-08.Rda# Analysis Server JMS Settings# For unix deployment#gov.nih.nci.rembrandt.jms.jboss\_url=localhost:51599gov.nih.nci.rembrandt.jms.jboss\_url=cbapp-s1005.nci.nih.gov:51599gov.nih.nci.rembrandt.jms.factory\_jndi=ConnectionFactorygov.nih.nci.rembrandt.jms.analysis\_request\_queue=queue/SharedAnalysisRequestgov.nih.nci.rembrandt.jms.analysis\_response\_queue=queue/RembrandtAnalysisResponse# BRB Files Settings# For unix deploymentgov.nih.nci.rembrandt.brb\_filepath=/local/content/rembrandt/brb# Database Propertiesgov.nih.nci.rembrandt.jcd\_alias=caIntegratorgov.nih.nci.rembrandt.dbalias=thin:@cbiodb520.nci.nih.gov:1550:INTM1STGgov.nih.nci.rembrandt.db.username=########gov.nih.nci.rembrandt.db.password=########### caCORE URLgov.nih.nci.rembrandt.cacore.url=http://cabioapi.nci.nih.gov/cabio42# EHCACHE Confiraturation File# Please make sure rembrandt\_ehcache.xml is copied to /local/content/rembrandt/config/# and verify the following tag within rembrandt\_ehcache.xml is configured as follows# <diskStore path="/local/content/rembrandt/cache"/> in unix or# <diskStore path="C:/local/content/rembrandt/cache"/> in localgov.nci.nih.rembrandt.echache.configFile=/local/content/rembrandt/config/rembrandt\_ehcache.xml################ WEBGENOME SETTINGS ###########################################webGenome.url=http://webgenome-stage.nci.nih.gov/webgenome/client/plot.do#webGenome.url=http://webgenome-stage.nci.nih.gov/webgenome/client/plot.do?qType=loh#webGenomeJndi.url=jnp://cbiogedp101.nci.nih.gov:51399webGenome.url=http://cbapp-s1005.nci.nih.gov:19280/webgenome/client/plot.do?qType=copyNumberwebGenomeJndi.url=jnp://cbapp-s1005.nci.nih.gov:11299#feedback Mail Propsrembrandt.feedback.mailSMPT=mailfwd.nih.govrembrandt.feedback.mailFrom=no-reply@caintegrator.nci.nih.govrembrandt.feedback.mailTo=REMBRANDT\_UAT\_L@LIST.NIH.GOVrembrandt.feedback.mailSubject=Rembrandt Application Feedbackrembrandt.feedback.features=Gene Expression Plot, KM for Gene Expression, KM for Copy Number, KM for Sample Groups, Gene Expression Analysis, Copy Number Analysis, Clinical Study Analysis, Class Comparison Analysis, PCA Analysis, HC Analysis, Report Features, List Management, BRB, Online Helprembrandt.feedback.template=You have received new feedback from a registered user.\n\nGeneral Feedback:\n{general}\n\nUsed Most:\n{most}\n\nUsed Least:\n{least}# UNCOMMENT THIS LINE FOR STAGE AND PRODrembrandt.register.mailTo.support=ncicb@pop.nci.nih.gov#rembrandt.register.mailTo.support=landyr@mail.nih.govrembrandt.register.mailSubject.support=REMBRANDT: Request username/passwordrembrandt.register.template.support={first\_name} {last\_name} is requesting an account for the Rembrandt Application. \n\nFirst Name - {first\_name}\nLast Name - {last\_name}\nEmail - {email}\nInstitution - {institution}\nDepartment - {department}\nPhone - {phone}\n\nThis is an automated email sent from the Rembrandt Application.\nrembrandt.register.mailSubject.user=REMBRANDT: Thanks for registeringrembrandt.register.template.user=Dear {first\_name} {last\_name},\nThanks for registering for access to the Rembrandt Application. You will receive your official account information via email shortly. Until you receive your full account you may login with the following username/password - 'RBTuser/RBTpass'. Please contact ncicb@pop.nci.nih.gov for further assistance.\n\n\nSincerely,\n-The Rembrandt Teamrembrandt.annotations.links.gene=http://cgap.nci.nih.gov/Genes/RunUniGeneQuery?PAGE=1&SYM=&PATH=&ORG=Hs&TERM=rembrandt.annotations.links.reporter=http://lpgws.nci.nih.gov/cgi-bin/AffyViewer.cgi?st=1&org=1&query=rembrandt.annotations.links.reporterc=https://www.affymetrix.com/LinkServlet?probeset=rembrandt.annotations.links.cytoband=http://genome.ucsc.edu/cgi-bin/hgTracks?clade=vertebrate&org=Human&db=hg17&pix=620&hgsid=40518963&Submit=submit&position=#rembrandt.annotations.links.image=http://mgc.nci.nih.gov/Reagents/CloneInfo?ORG=Hs&IMAGE=#rembrandt.annotations.links.image=http://lpgdev58.nci.nih.gov/cgi-bin/iview.cgi?query=rembrandt.annotations.links.image=http://lpgws.nci.nih.gov/cgi-bin/iview.cgi?query=rembrandt.wg.thresh=50rembrandt.wg.thresh.message=Your query results contain more than 50 samples. This large resultset may cause the WebGenome request to timeout.#Gene Pattern Integration properties. gov.nih.nci.caintegrator.gp.server needs to be changed to match the real server usedgov.nih.nci.caintegrator.gp.server=http://caintegrator-stage.nci.nih.gov/gov.nih.nci.caintegrator.gp.desencrypter.key=My Really Long Keygov.nih.nci.caintegrator.gp.publicuser.poolsize=50gov.nih.nci.caintegrator.gp.publicuser.name=NCIISPYGuestgov.nih.nci.caintegrator.gp.publicuser.password=t0ps1cr2tgov.nih.nci.caintegrator.gp.modulename=ConvertToGctAndClsFile#applet#gov.nih.nci.caintegrator.gpvisualizer.heatmapviewer.commandLine=<java> <java\_flags> -jar <libdir>heatmap-o.jar <dataset>#gov.nih.nci.caintegrator.gpvisualizer.heatmapviewer.gp\_lsid=urn:lsid:broad.mit.edu:cancer.software.genepattern.module.visualizer:00010:8#gov.nih.nci.caintegrator.gpvisualizer.heatmapviewer.supportFileURL=http://caintegrator-stage.nci.nih.gov/gp/getFile.jsp?task=<lsid>&file=<supportFileName>gov.nih.nci.caintegrator.gpvisualizer.heatmapviewer.commandLine=<java> <java\_flags> -jar <libdir>heatmap-o.jar <dataset>gov.nih.nci.caintegrator.gpvisualizer.heatmapviewer.gp\_lsid=urn:lsid:broad.mit.edu:cancer.software.genepattern.module.visualizer:00010:8gov.nih.nci.caintegrator.gpvisualizer.supportFileURL=http://caintegrator-stage.nci.nih.gov/gp/getFile.jsp?task=<lsid>&file=<supportFileName>gov.nih.nci.caintegrator.gpvisualizer.hcpipeline.commandLine=<java> <java\_flags> -jar <libdir>hcl-o.jar <cdt.file> -g<gtr.file> -a<atr.file>gov.nih.nci.caintegrator.gpvisualizer.hcpipeline.gp\_lsid=urn:lsid:broad.mit.edu:cancer.software.genepattern.module.visualizer:00031:8gov.nih.nci.caintegrator.gpvisualizer.predictionResultsViewer.gp\_lsid=urn:lsid:broad.mit.edu:cancer.software.genepattern.module.visualizer:00019:3gov.nih.nci.caintegrator.gpvisualizer.predictionResultsViewer.commandLine=<java> <java\_flags> -cp <libdir>PredictionResultsViewer.jar<path.separator><libdir>plot.jar<path.separator><libdir>gp-modules.jar edu.mit.broad.modules.predict.PredictionResultsViewer <prediction.results.filename>gov.nih.nci.caintegrator.gpvisualizer.comparativeMarkerSelectionViewer.gp\_lsid=urn:lsid:broad.mit.edu:cancer.software.genepattern.module.visualizer:00045:4gov.nih.nci.caintegrator.gpvisualizer.comparativeMarkerSelectionViewer.commandLine=<java> -Dedu.mit.broad.gc.endpoint=http://www.broad.mit.edu/webservices/genecruiser/services/Annotation <java\_flags> -cp <libdir>MarkerSelectionViewer.jar<path.separator><libdir>ExtractComparativeMarkerResults.jar<path.separator><libdir>gp-modules.jar<path.separator><libdir>my-xtools.jar edu.mit.broad.modules.marker.MarkerSelectionFrame <comparative.marker.selection.filename> <dataset.filename>gov.nih.nci.caintegrator.gpvisualizer.hcpipeline.child\_lsid=urn:lsid:broad.mit.edu:cancer.software.genepattern.module.analysis:00009:3gov.nih.nci.caintegrator.gpvisualizer.predictionResultsViewer.child\_lsid=urn:lsid:broad.mit.edu:cancer.software.genepattern.module.analysis:00012:3gov.nih.nci.caintegrator.gpvisualizer.comparativeMarkerSelectionViewer.one.child\_lsid=urn:lsid:8080.smonti.CP85C-516.broad.mit.edu:genepatternmodules:2:12gov.nih.nci.caintegrator.gpvisualizer.comparativeMarkerSelectionViewer.two.child\_lsid=urn:lsid:broad.mit.edu:cancer.software.genepattern.module.analysis:00044:3#institute id for statistics calculationrembrandt.institute.ids=8#scheduler type, daily = 1; weekly=2rembrandt.scheduler.type=2#caarrayrembrandt.caarray.api.version=2.3rembrandt.caarray.server.url=http://array.nci.nih.gov:8080#rembrandt.caarray.server.url=http://array-stage.nci.nih.gov:8080rembrandt.caarray.cn.experiment.name=rembr-00086rembrandt.caarray.ge.experiment.name=rembr-00037rembrandt.caarray.user.name=rembrandtreadrembrandt.caarray.user.pwd=\*\*\*\*\*\*\*\*rembrandt.caarray.download.input.dir=/local/content/rembrandt/downloaded-caarray-filesrembrandt.caarray.download.output.zip.dir=/local/content/rembrandt/zipped-caarray-filesrembrandt.caarray.download.dirInZip=rembrandtrembrandt.caarray.download.zip.url=download.do?method=download&file=3. Copy releaseNotes.html from the build/artifacts folderto /local/content/rembrandt/config folder on the Application server, (replace existing file, if necessary)4. Ensure all other paths inside the rembrandt.properties are set to “/local/content/rembrandt/config”5. Ignore “/local/content/rembrandt/data” for now6. Create folder /local/content/rembrandt/cache7. From build artifacts, Copy file “rembrandt\_ehcache.xml” to /local/content/rembrandt/config8. Open the copied “rembrandt\_ehcache.xml” to verify the following tag within rembrandt\_ehcache.xml is configured as follows<diskStore path="/local/content/rembrandt/cache"/>9. Transfer the following files from the REMBRANDT/BRBFiles directory of the caintegrator ftp siteftp://ncicbftp2.nci.nih.govlogin:caintegratorftpto $CONF\_DIRECTORY/rembrandt/brbo Rembrandt-Brain-All-Project.zipo Rembrandt-Brain-PublicPlusDana-Farber-Project.zipo Rembrandt-Brain-PublicPlusH.LeeMoffitt-Project.zipo Rembrandt-Brain-PublicPlusHF-Project.zipo Rembrandt-Brain-PublicPlusMGH-Project.zipo Rembrandt-Brain-PublicPlusUCLA-Project.zipo Rembrandt-Brain-PublicPlusUCSF-Project.zipo Rembrandt-Brain-Public-Project.zip | | |
| **CSM Configuration** | | | | |
| CSM Configuration | | **Configure CSM v4.0**  1. Add the following content into $JBOSS\_INSTANCE/conf/login-config.xml    <application-policy name="rembrandt">  <authentication>  <login-module code="gov.nih.nci.security.authentication.loginmodules.LDAPLoginModule" flag="required">  <module-option name="ldapHost">ldaps://ncids4a.nci.nih.gov:636</module-option>  <module-option name="ldapSearchableBase">ou=nci,o=nih</module-option>  <module-option name="ldapUserIdLabel">cn</module-option>  </login-module>  </authentication>  </application-policy>  To add users and privileges:  -log into the csmupt for the Rembrandt application  -select user – select an existing user or create a new one using the LDAP username  -view details  - click “associated groups”  - 5 available groups –SUPER\_USER, HENRY\_FORD, PUBLIC, TJU, UCSF (each have different permissions)  - assign PUBLIC  -Update association  -login to Rembrandt and test account  Also See External Datasource | | |
| UPT Configuration | | Use UPT 4.0 to configure users  Login to <http://upt.nci.nih.gov/> (select CSM/UPT 4.0)  Setup new application for REMBRANDT using DB credentials | | |
| **Standalone modules or scripts** | | | | |
| Automated Scripts | | *Identify automated scripts needed to process external tasks. Include frequency to be run, intended location, script dependencies, output files, temporary directory locations, etc.* | | |
| Manual Scripts | | *Identify manual scripts needed to process any TAR or ZIP file included in the “Deployment Units” section above.* | | |
| **Dependencies and Children** | | | | |
| Database Dependency | | Is there a database component for this deployment?  Yes  x No  If Yes, provide instructions in the sections below. | | |
| APIs and Services | | CBIIT Services required for this application: (select all that apply).  CSM (specify version)  RMI (explain)  x caCORE API (specify version)caBIO 3.1  EVS Services (explain)  x Analysis Services (explain) caintegrator analysis server  caGRID Framework (explain)  x Other (please specify) cArray Java API , Gene Pattern Server | | |
| Child services | | Identify other applications or services dependant on this deployment. This exposes the deployment environment and potential impact of restarts. Identify static connection dependencies which may require child services restart, for example, RMI server and webServices, or R servers and Portal. | | |
| **System Interaction Details** | | | | |
| Cache | | Any caching mechanism used, the directory required for cache, if this directory must exist in advance or if application creates it, expiration details of cache mechanism and cleaning strategy for cache, e.g. EHCache.  Ehcache  Please see Setup & Configure Externalized Properties section | | |
| Hibernate ( ORM ) | | *Please see External Datasource section for oracle-ds.xml and OJB settings in Rembrandt.properties file.* | | |
| File System | | *Create following folders*  /local/content/rembrandt/brb  /local/content/rembrandt/config  /local/content/rembrandt/cache  **For the below folders, setup an NFS volume of 200GB**  /local/content/rembrandt/downloaded-caarray-files  /local/content/rembrandt/zipped-caarray-files | | |
| Mail Forwarding | | Please see Setup & Configure Externalized Properties section  rembrandt.feedback.mailSMPT=mailfwd.nih.gov | | |
| **Grid Services** | | | | |
| Grid Details | | Service offered, grid version, grid dependencies. | | |
| **Detailed Instructions** | | | | |
| EAR, WAR, JAR, TAR and ZIP Deployment | | rembrandt.war | | |
| RMI | | Detailed procedure for deployment of RMI services. | | |
| Database Interaction | | Please coordinate with DB team to deploy the Rembrandt DB with the application. | | |
| File Copy | | Configure BRB Data Files  1. Create a /local/content/rembrandt/brb  2. Within remprandt.properties, if needed, modify gov.nih.nci.rembrandt.brb\_filepath to /local/content/rembrandt/brb  3. Transfer the following files from the REMBRANDT/BRBFiles directory of the caintegrator ftp site  ftp://ncicbftp2.nci.nih.gov  login:caintegratorftp  to $CONF\_DIRECTORY/rembrandt/brb  o Rembrandt-Brain-All-Project.zip  o Rembrandt-Brain-PublicPlusDana-Farber-Project.zip  o Rembrandt-Brain-PublicPlusH.LeeMoffitt-Project.zip  o Rembrandt-Brain-PublicPlusHF-Project.zip  o Rembrandt-Brain-PublicPlusMGH-Project.zip  o Rembrandt-Brain-PublicPlusUCLA-Project.zip  o Rembrandt-Brain-PublicPlusUCSF-Project.zip  o Rembrandt-Brain-Public-Project.zip  Configure caIntegrator GenePattern Server  Copy the R Binary File **Rembrandt\_mas5.dataMatrix\_5-29-08.Rda** file from the ftp site <ftp://ncicbftp2.nci.nih.gov>  <ftp://ncicbftp2.nci.nih.gov/REMBRANDT/Rembrandt_mas5.dataMatrix_5-29-08.Rda>  to  GenePattern Server‘s /usr/local/genepattern/resources folder. | | |
| **Web Server Configuration** | | | | |
| DNS Entries | | Dev, QA, Stage, and Production host names to be registered in DNS. | | |
| Apache | | Apache configuration or redirection, e.g. options, aliases, mime-types, logs, reports, HTML file types, Index files, etc. | | |
| SSL | | ***Encrypting session data is strongly encouraged when using authentication mechanisms with real user credentials.*** | | |
| Single Sign On | | *Provide details when using NIH Single Sign On services.* | | |
| **Test Cases** | | | | |
| Pre Deployment Tests | | Tests to perform **before** deployment to assure normal application/product operations. These tests are used in the event a deployment roll-back is necessary. Also strongly encouraged when different than the post-deployment tests.  The tests may be written in a separate document provided it is placed in a location accessible to the deployment team, preferably on GForge. | | |
| Post Deployment Tests  **Required** | | Post deployment validation tests. Detail specific steps and include results for a successful process. The test fails if it deviates in any way from the documented results. These should derive from QA test plans documented during product development.  The tests may be written in a separate document provided it is placed in a location accessible to the deployment team, preferably on GForge. | | |