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| **Deployment specific instructions to accompany every deployment request.** | | | | |
| **Application and Submitter Information** | | | | |
| Author Name & Phone # | | Dana Zhang  301 451 6352 | Date | 6/19/08 |
| Application / Product Name | | CGOM-CAGWAS REMOTE & GRID SERVICE | Version Number | 1.0 |
| Government Sponsor Name & Phone # | | Subha Madhavan  301.451.2882 | QA Sponsor Name & Phone # | Nonna Rabinovich |
| **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:  This allows the Systems Group to maximize hardware use while achieving application performance goals. | | | |
| JBoss | (select one)  JBoss 4.0.2 / Tomcat -5.5.9 / JDK 1.5.0\_04   x JBoss 4.0.4 / Tomcat -5.5.17 / JDK 1.5.0\_06  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)  x Other: (please specify) caGRID 1.1 / 1.2 | | | |
| Database | (select one)  x Oracle 9.2.0.6 (on Solaris) 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 | What other applications and servers **outside of CBIIT / NCICB** are required for this application to function?  CGEMS | | | |
| FTP | Explain the FTP environment needed. Include secure/non-secure requirements, space allocation, estimated growth rate and file retention period.  None | | | |
| **Deployment Units** | | | | |
| Archive files | | *EAR, JAR, WAR, TAR, ZIP files to be deployed. These files are produced by the build request. Additional instructions should be noted in the sections below.*  *Cgom-cagwas.war & wsrf-cagwas.war*  *See build\_instructions\_cgom\_cagwas\_object-api.doc for building Cgom-cagwas.war* | | |
| JBoss Property File Updates | | *Log4j.xml, oracle-ds.xml, login-config.xml, properties-service.xml etc are shared by all applications deployed in the container. Include the file name and specific updates here.*  cagwas-ds.xml needs to points to CGEMS DB INSTANCE  <datasources>  <local-tx-datasource>  <jndi-name>cagwas-app</jndi-name>  <connection-url>jdbc:oracle:thin:@DB\_URL:1521:CGEMS\_INSTANCE</connection-url>  <user-name>CGEMS\_USER</user-name>  <password>CGEMS\_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>  </datasources> | | |
| Other Configuration Files | |  | | |
| **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 | | Provide the Log4j.xml (or appropriate) configuration file location. This is specific to the deployed product and not shared or used for an application container, e.g. Jboss, Tomcat, Apache, etc.  If custom logging is performed, include instructions on where the log file format and output file locations are configured as well as examples on how to specify the configuration values. | | |
| External Datasource | | *N/A* | | |
| Authentication Module (e.g. JAAS) | | **N/A** | | |
| Java Message Service (JMS) | | **N/A** | | |
| Properties-services | | **N/A** | | |
| Setup & Configure Externalized Properties | | *N/A* | | |
| **CSM Configuration** | | | | |
| CSM Configuration | | CSM relevant information. | | |
| UPT Configuration | | *UPT relevant information.* | | |
| **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 | | *Configure caGrid Index Service & Meta Resigration during build time*  *Using Build Instructions* | | |
| **Dependencies and Children** | | | | |
| Database Dependency | | Is there a database component for this deployment?  x Yes  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)  caCORE API (specify version)  EVS Services (explain)  Analysis Services (explain)  x caGRID Framework (explain)  Other (please specify) | | |
| 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.  N/A | | |
| Hibernate ( ORM ) | | *Details about hibernate or other ORM product. Externalize this property if you want to control hibernate logging.* ***If not externalized, disable sql\_query logging for stage/prod builds.***  ***COMPLETED*** | | |
| File System | | Setup and configuration of the file system. Include size, expected growth, file retention plans, static vs. dynamic content, performance characteristics, cleanup method, layout/structure, configured directory references, coded directory references, Apache accessible, etc.  This is required for all permanent, semi-permanent and temporary file storage.  N/A | | |
| Mail Forwarding | | SMTP configuration. This must be included for any and all application e-mail uses.  N/A | | |
| **Grid Services** | | | | |
| Grid Details | | 1. Modify the following properties in caintegrator-spec\grid\_service to configure the following for your server  * grid.logicalHost: such as cbiovdev5024.nci.nih.gov * grid.service.application.name: such as wsrf-cagwas * grid.service.war.filename: such as wsrf-cagwas.war * grid.service.name: such as cagwasGridService * remote.app.service.url: URL where the caCORE generated remote app service is located * grid.index.service.base.url: url of the grid index service * For jboss.server.hostname you DO NOT NEED TO CHANGE, you can leave it as localhost * jboss.server.port: your jboss server port number * Modify Grid Metadata Registration Info, if necessary   2) Run grid-service/build.xml  3) wsrf-cagwas.war is generated under artifacts dir  4) Copy caintegrator-spec/grid\_service/globus\_lib\_files  to  jboss-4.0.4.G/<INSTANCE>/server/default/lib | | |
| **Detailed Instructions** | | | | |
| EAR, WAR, JAR, TAR and ZIP Deployment | | Deploy cgom-cagwas.war & wsrf-cagwas.war files | | |
| RMI | | N/A | | |
| Database Interaction | | Explain, in detail, the necessary steps required to coordinate this application deployment with the database. This is required when the deployment has both a software and database component. Estimate the processing time required for any database scripts.  Should use the same settings as currenlyunder INDI:/CGEMS in the oracle-ds.xml file | | |
| File Copy | | Include source and target locations for files to be copied. Assume the target location for all tiers is identical, e.g. if the directory is /local/content/application on DEV and QA it will be the same on all others. Be sure that files are in a location which will be accessible to deployment team. Ideally this will be the CVS project. Shared drives for development may not be available to other teams.  N/A | | |
| **Web Server Configuration** | | | | |
| DNS Entries | | Dev, QA, Stage, and Production host names to be registered in DNS.  caintegrator-dev.nci.nih.gov/cgom-cawas  caintegrator-qa.nci.nih.gov/cgom-cawas  caintegrator-stagev.nci.nih.gov/cgom-cawas  caintegrator.nci.nih.gov/cgom-cawas | | |
| 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.***  ***N/A as only public data is being served*** | | |
| 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.  N/A | | |
| 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.  Download gridCAGWAS.zip  From https://gforge.nci.nih.gov/frs/download.php/3113/gridCAGWAS.zip  To build and run the CAGWAS\_GridClient.java file.  1. Set ant to your path variable  2. Unzip gridCAGWAS.zip in a new directory such as c:/cagwas-grid-client  3. You will need to pass the URL & port of your caGRID service such as an argument  http://cbiovdev5024.nci.nih.gov:59180/wsrf/services/cagrid/CAGWAS  5. Run ant from the unzipped directory as follows  ant -Dservice.url=<caGRID Service URL>  for example:  ant -Dservice.url=http://cbiovdev5024.nci.nih.gov:59180/wsrf/services/cagrid/CAGWAS  Note to change the testcases and associated IDs, please modify the testcases properties file under /conf folder | | |