Inca Workshop
August 27, 2010

Hands-on Tutorial #3
Inca Consumer

Step 1: configure the Google Map view

User guide: http://inca.sdsc.edu/releases/latest/guide/userguide-consumer.html#GOOGLE

a) Get a Google Map API key for your machine by signing up at

   http://code.google.com/apis/maps/signup.html

   See section 6.1.3.2 in the user guide for more details.

b) Use the admin page to insert the Google Map API key into the "key" folder.

c) Change the location of the resource to SDSC by replacing the "longitude" and "latitude" values on the google map admin page to -117.23769900 and 32.8724 respectively.

d) Move the Inca logo to the right of the marker icon by using the admin page to change the logo "angle" value to 0 and "logoAnchorX" from 125 to 0.

e) Change the Inca logo to the SDSC logo by replacing the "url" value on the admin page to http://inca.sdsc.edu/www/images/sdsc_black.gif . Change the width of the logo to 72 and the height to 24. Change "logoAnchorY" to 12.

f) Click on "Map of sampleSuite" link underneath the "CURRENT DATA" header in the Inca status pages. You should see a map of the U.S. with a Google marker and an SDSC logo in near San Diego.

Step 2: configure the header

a) Add the SDSC logo to the top of the header by adding a table after line 15 (<xsl:variable name="sample"…) in $INCA_DIST/webapps/inca/xsl/header.xsl such as:

```
<table width="100%" >
   <tr><td>
    <img src="http://www.sdsc.edu/assets/images/logos/SDSClogo-plusname-red.jpg"/>
   </td></tr>
</table>
```

b) Add "mySuite" to the xsl variable called "sample" on line 15 in $INCA_DIST/webapps/inca/xsl/header.xsl next to sampleSuite. Reload page and check that mySuite shows up under "Table of sampleSuite results".

c) Use the admin page to add a new graph to the "status report graphed series". Make the title "My Tests" and the series "cluster.lang.perl.version,localResource,perl version".

d) Reload the first report link (past week: pass/fail graphs and err msgs) and check results.

Step 3: run the incaStatusQuery

Go to https://localhost:8443/inca/jsp/query.jsp. If prompted, click the links to "add an exception". When prompted for a username and password, use "inca" and "inca". In the leftmost box, select the query called incaQueryStatus underneath "Stored queries". Then click the "refresh" button. Reselect incaQueryStatus and click the "view" button and you should see XML. Click each of the four bottom menu items under the "REPORTS" menu in the header and view the results.

Step 4: change the password and username for the pages

a) Edit $INCA_DIST/etc/realm.properties and replace line 18 with your own username and password and save the file.

b) Then restart the consumer using:

   cd $INCA_DIST; ./bin/inca restart consumer

c) Go to to https://localhost:8443/inca/jsp/query.jsp and type in your new username and password.

Step 5: add a knowledge base article
a) Click on an instance from one of the status pages (e.g. http://localhost:8080/inca/HTML/rest/sampleSuite) and then click the "add to knowledge base" button.

b) Enter your login from step 4 to access the page.

c) Complete the form and view the new text from the confirmation screen and also from knowledge base searches.

Step 6: add a performance metric to status report
a) Open incat (bin/inca start incat –A localhost:6323) and clone the "wget_performance" series in the sampleSuite. Use a different URL for the page parameter and name the series with a different nickname. Commit the series.
b) Visit the "View/Change Inca Configuration" admin page linked from the top header menu.
c) Scroll down to "status report" and click on "add metric graph". Type the name of your new series, localResource, and a label.
d) Edit the "metric_name" under the new "graph"->"metric" folder to say "bandwidth"
e) View the new report - first report linked under the page header under "past week: sampleSuite"

Step 7: query the agent for its configuration

a) Follow the instructions at http://inca.sdsc.edu/releases/2.6/guide/userguide-one.html#USERGUIDE-APIS-PERL skipping the first 1-3 steps

b) Use the sample code at the link above, replace "clientcert.pem" with "incatcert.pem" and "clientkey.pem" with "incatkey.pem"