[OpenAz] Version 98: Preliminary skeleton tutorial w OpenAzPolicyReader

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To OpenAz MailList:

A preliminary version of the OpenAz tutorial is available for evaluation.

As indicated in previous email:
http://lists.openliberty.org/pipermail/openaz/2010-July/000074.html
the reason for  implementing  OpenAzPolicyReader was simply that
maintaining the XACML test policies for OpenAz became so burdensome from
a perspective of how do we show people what this is all about, in
particular, just explaining the XACML constructs to implement relatively
simple Policy paradigms, that it was obvious that there had to be an
easier way to present this information.

The result is the simple line at a time representation described earlier:
http://lists.openliberty.org/pipermail/openaz/2010-June/000069.html
One way to visualize the lines is to consider them to be a sequence of
form POSTs to a web application that presents a sequence of forms to
collect the data necessary to build a xacml policy. It should be obvious
how this could be implemented from the materials currently available,
but what we have is even easier, and can be considered a local
implementation without bothering with the forms, kind of an import to a
xacml policy builder.

Again, this technique is totally optional and all the demos can be run
by directly submitting the XACML policies that can be constructed in any
manner one chooses.

The first demo that is implemented may be run from
    test/src/test/policies/OpenAzTutorial.java
which takes as input the file:
    test/policy/OpenAz-Pseudo-Test-Policy.txt
which consists of the following "xacml shorthand" input:

    PolicySet
      Target
      Policy
        Target
          TS (sub-id, "Joe Smith")
          TR (res-id, "C:\jsmith\.*" mtId:rgx-mt)
        Rules(Policy)
         Rule (ef:Permit)
          Target

This may be read as follows:

    * Create a PolicySet with default Target of all Subjects, Resources,
      and Actions (i.e. applies to every request)
    * Create a Policy with a Target of Subject Joe Smith and resource
      scope C:\jsmith\.*.
    * Create a Rule with Effect = Permit for any request that passes
      thru the Policy's Target of prev bullet.

The net result of this policy is that Joe Smith is granted access to
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perform any action on any descendant of resource: C:\jsmith\. The above
syntax can be condensed even further, but that will be left as a tbd for
the present.

Basically, the first demo performs the same operations as
TestStyles.testStyleString which uses the PepApi to create requests
using Strings for Subject, Resource, and Action.

The next steps are to provide similar "micro-demos" for all the
remaining capabilities in the test suite, which includes demo of:

    * PepApi: String inputs
    * PepApi: Random object inputs using Mappers
    * PepApi: JAAS subject + Permission input
    * PepApi: policy-based query returning regexp to query repository
      for list of allowed resources, etc.
    * PepApi: attribute finder
    * PepApi: QueryTest: to demo resource-based  query where scope is
      applied to repos to get list of resources to query for specific
      decision requests.
    * PepApi: BulkDecideTest: to demo general multiple request capabilities
    * AzApi: TestAzApi: to demo general use of detail-level AzApi that
      will generally be used by providers as a foundation for building
      custom PepApi solutions.
    * TBD: a demo of how to provide alternative syntax for "xacml shorthand"

We will announce tomorrow if a call will be held to discuss the above;
if anyone is explicitly interested to discuss the current release and
next steps, please drop an email and we will likely have the call.

    Thanks,
    Rich


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URL: http://lists.openliberty.org/pipermail/openaz/attachments/20100722/146b218b/attachment.html
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