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Augeas with XML files

Augeas can edit a number of different file formats, but here we'll cover XML.

Augeas with augtool

1) Define a XML file to play with:

```
$ cat /tmp/foo.xml
<TopLevel>
  <FooBar foo="bar">2</FooBar>
  <Foo>
    <Bar foo="bar">foo</Bar>
    <Lol />
  </Foo>
</TopLevel>
```

2) Start augtool:

```
$ augtool --noload --noautoload --echo
```

3) Set XML lens:

```
augtool> set /augeas/load/xml/lens "Xml.lns"
augtool> set /augeas/load/xml/incl "/tmp/foo.xml"
augtool> load
```

4) Print internal tree:

```
augtool> print /files
/files
/files/tmp
/files/tmp/foo.xml
/files/tmp/foo.xml/TopLevel
/files/tmp/foo.xml/TopLevel/#text[1] = "\n\t"
/files/tmp/foo.xml/TopLevel/FooBar
/files/tmp/foo.xml/TopLevel/FooBar/#attribute
/files/tmp/foo.xml/TopLevel/FooBar/#attribute/foo = "bar"
/files/tmp/foo.xml/TopLevel/FooBar/#text = "2"
/files/tmp/foo.xml/TopLevel/#text[2] = "\t"
/files/tmp/foo.xml/TopLevel/Foo
/files/tmp/foo.xml/TopLevel/Foo/#text[1] = "\n\t\t"
/files/tmp/foo.xml/TopLevel/Foo/Bar
/files/tmp/foo.xml/TopLevel/Foo/Bar/#attribute
/files/tmp/foo.xml/TopLevel/Foo/Bar/#attribute/foo = "bar"
/files/tmp/foo.xml/TopLevel/Foo/Bar/#text = "foo"
/files/tmp/foo.xml/TopLevel/Foo/#text[2] = "\t\t"
/files/tmp/foo.xml/TopLevel/Foo/Lol = "#empty"
/files/tmp/foo.xml/TopLevel/Foo/#text[3] = "\t"
```

5) Define an attribute, and a value for the element. First, you have to remove the `#empty` value for `Lol`, then you have to set the attribute, and then the value (in that order)

```
augtool> set /files/tmp/foo.xml/TopLevel/Foo/Lol
augtool> set /files/tmp/foo.xml/TopLevel/Foo/Lol/#attribute/jk "abc"
augtool> set /files/tmp/foo.xml/TopLevel/Foo/Lol/#text "def"
```

6) Verify changes:

```
augtool> print /files
```

```
...
/files/tmp/foo.xml/TopLevel/Foo/Lol
/files/tmp/foo.xml/TopLevel/Foo/Lol/#attribute
/files/tmp/foo.xml/TopLevel/Foo/Lol/#attribute/jk = "abc"
/files/tmp/foo.xml/TopLevel/Foo/Lol/#text = "def"
...
```

7) Flush changes to disk:

```
augtool> save
```

Augeas with puppet

Case: We want to ensure the following in `/var/lib/jenkins/config.xml`:

```
<useSecurity>true</useSecurity>
<slaveAgentPort>9090</slaveAgentPort>
<securityRealm class="org.jenkinsci.plugins.reverse_proxy_auth.ReverseProxySecurityRealm" plugin="reverse-proxy-auth@1.4.0">
  <inhibitInferRootDN>false</inhibitInferRootDN>
  <userSearch>uid={0}</userSearch>
  <updateInterval>15</updateInterval>
  <forwardedUser>ADFS_LOGIN</forwardedUser>
  <headerGroups>ADFS_GROUP</headerGroups>
  <headerGroupsDelimiter>;</headerGroupsDelimiter>
  <proxyTemplate/>
  <authContext/>
  <authorityUpdateCache/>
  <userSearchBase/>
</securityRealm>
```

In puppet, we use the `augeas` type. Here, we choose to store the main configuration in the manifest file, and the bulk of the commands in hieradata.

```
#my_manifest.pp:
```

```
# We use the 'augeas' type to set certain kind of information in
# the jenkins configuration files
augeas{ "jenkins_config":
  incl => "/var/lib/jenkins/config.xml",
  lens => "Xml.lns",
  context => "/files/var/lib/jenkins/config.xml/hudson",
  changes => hiera('augeas_changes', [])
}
```

```
# # # # #
```

```
#my_hieradata.yaml:
```

```
augeas_changes:
  - 'set useSecurity/#text true'
  - 'set slaveAgentPort/#text 9090'
  - 'set securityRealm/#attribute/class org.jenkinsci.plugins.reverse_proxy_auth.ReverseProxySecurityRealm'
  - 'set securityRealm/#attribute/plugin reverse-proxy-auth-plugin@1.4.0'
  - 'set securityRealm/inhibitInferRootDN/#text false'
  - 'set securityRealm/userSearch/#text uid={0}'
  - 'set securityRealm/updateInterval/#text 15'
  - 'set securityRealm/forwardedUser/#text ADFS_LOGIN'
  - 'set securityRealm/headerGroups/#text ADFS_GROUP'
  - 'set securityRealm/headerGroupsDelimiter/#text ;'
  - 'clear securityRealm/proxyTemplate'
  - 'clear securityRealm/authContext'
  - 'clear securityRealm/authorityUpdateCache'
  - 'clear securityRealm/userSearchBase'
```

This topic: Main > TerjeAndersenAugeas

Topic revision: r3 - 2014-07-25 - TerjeAndersen



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