

 pmlopes Restore reverted commit 🗨

8659b71 · last year 🕒 History 🗨

Code Blame 196 lines (176 loc) · 6.71 KB

Raw 📄 ⬇ 📄

```
1  /*****
2   * Copyright (c) 2019 Stephane Bastian
3   *
4   * This program and the accompanying materials are made available under the 2
5   * terms of the Eclipse Public License 2.0 which is available at
6   * http://www.eclipse.org/legal/epl-2.0.
7   *
8   * SPDX-License-Identifier: EPL-2.0 3
9   *
10  * Contributors: 4
11  *   Stephane Bastian - initial API and implementation
12  *****/
13  package io.vertx.ext.auth.properties.impl;
14
15  import io.vertx.core.Future;
16  import io.vertx.core.Vertx;
17  import io.vertx.ext.auth.authentication.CredentialValidationException;
18  import io.vertx.ext.auth.authentication.Credentials;
19  import io.vertx.ext.auth.authentication.UsernamePasswordCredentials;
20  import io.vertx.ext.auth.authorization.Authorization;
21  import io.vertx.ext.auth.authorization.RoleBasedAuthorization;
22  import io.vertx.ext.auth.authorization.WildcardPermissionBasedAuthorization;
23  import io.vertx.ext.auth.properties.PropertyFileAuthentication;
24  import io.vertx.ext.auth.properties.PropertyFileAuthorization;
25
26  import java.nio.charset.StandardCharsets;
27  import java.util.*;
28  import java.util.logging.Level;
29  import java.util.logging.Logger;
30
31  /**
32   * @author <a href="mailto:stephane.bastian.dev@gmail.com">Stephane Bastian</a>
33   */
34  public class PropertyFileAuthenticationImpl implements PropertyFileAuthentication, PropertyFileAuthorization {
35      private final static Logger logger = Logger.getLogger(PropertyFileAuthentication.class.getName());
36
37      private static class User {
38          final String name;
39          String password;
40          final Map<String, Role> roles;
41
42          private User(String name) {
43              this.name = Objects.requireNonNull(name);
44              this.roles = new HashMap<>();
45          }
46
47          private void addRole(Role role) {
48              Objects.requireNonNull(role);
49              roles.put(role.name, role);
50          }
51      }
52
53      private static class Role {
54          final String name;
55          final Set<String> permissions;
56
57          private Role(String name) {
58              this.name = Objects.requireNonNull(name);
59              this.permissions = new HashSet<>();
60          }
61
62          private void addPermission(String permission) {
63              Objects.requireNonNull(permission);
64              permissions.add(permission);
65          }
66      }
67
68      private final String path;
69
70      private final Map<String, User> users = new HashMap<>();
71
72      public PropertyFileAuthenticationImpl(Vertx vertx, String path) {
73          Objects.requireNonNull(vertx);
74          this.path = Objects.requireNonNull(path);
75          final Map<String, Role> roles = new HashMap<>();
76
77          String fileContent = vertx.fileSystem().readFileBlocking(path).toString(StandardCharsets.UTF_8);
78          String[] lines = fileContent.split("\n");
79          for (String line : lines) {
80              if (line.length() == 0 || line.startsWith("#")) {
81                  // skip empty lines or comments
82                  continue;
83              }
84
85              if (line.startsWith("user.")) {
86                  logger.log(Level.FINE, () -> "read user line: " + line);
87                  String usernameAndRoles = line.substring(5);
88                  int index = usernameAndRoles.indexOf('=');
89                  String tmpName = index > 0 ? usernameAndRoles.substring(0, index).trim() : "";
90                  String tmpRoles = index > 0 ? usernameAndRoles.substring(index + 1).trim() : "";
91                  if (tmpName.length() > 0) {
92                      User user = new User(tmpName);
93                      users.put(tmpName, user);
94                      int roleIndex = 0;
```

```

95         for (String tmpRole : tmpRoles.split(",")) {
96             tmpRole = tmpRole.trim();
97             if (roleIndex == 0) {
98                 user.password = tmpRole;
99             } else if (tmpRole.length() > 0) {
100                 Role role = roles.get(tmpRole);
101                 if (role == null) {
102                     role = new Role(tmpRole);
103                     roles.put(tmpRole, role);
104                 }
105                 user.addRole(role);
106             }
107             roleIndex++;
108         }
109     } else {
110         logger.log(Level.WARNING, () -> "read blank username - " + line);
111     }
112 } else if (line.startsWith("role.")) {
113     logger.log(Level.FINE, () -> "read role line - " + line);
114     String roleAndProperties = line.substring(5);
115     int index = roleAndProperties.indexOf('=');
116     String tmpName = index > 0 ? roleAndProperties.substring(0, index).trim() : "";
117     String tmpProperties = index > 0 ? roleAndProperties.substring(index + 1).trim() : "";
118     if (tmpName.length() > 0) {
119         Role role = roles.get(tmpName);
120         if (role == null) {
121             role = new Role(tmpName);
122             roles.put(tmpName, role);
123         }
124         for (String tmpProperty : tmpProperties.split(",")) {
125             tmpProperty = tmpProperty.trim();
126             if (tmpProperty.length() > 0) {
127                 role.addPermission(tmpProperty);
128             }
129         }
130     } else {
131         logger.log(Level.WARNING, () -> "read blank role - " + line);
132     }
133 } else {
134     logger.log(Level.WARNING, () -> "read unknow line - " + line);
135 }
136 }
137 }
138
139 private Future<User> getUser(String username) {
140     if (!users.containsKey(username)) {
141         return Future.failedFuture("unknown user");
142     }
143
144     return Future.succeededFuture(users.get(username));
145 }
146
147 @Override
148 public Future<io.vertx.ext.auth.User> authenticate(Credentials credentials) {
149     final UsernamePasswordCredentials authInfo;
150     try {
151         try {
152             authInfo = (UsernamePasswordCredentials) credentials;
153         } catch (ClassCastException e) {
154             throw new CredentialValidationException("Invalid credentials type", e);
155         }
156         authInfo.checkValid(null);
157     } catch (RuntimeException e) {
158         return Future.failedFuture(e);
159     }
160
161     return getUser(authInfo.getUsername())
162         .compose(propertyUser -> {
163             if (Objects.equals(propertyUser.password, authInfo.getPassword())) {
164                 io.vertx.ext.auth.User user = io.vertx.ext.auth.User.fromName(propertyUser.name);
165                 // metadata "amr"
166                 user.principal().put("amr", Collections.singletonList("pwd"));
167                 return Future.succeededFuture(user);
168             } else {
169                 return Future.failedFuture("invalid username/password");
170             }
171         });
172 }
173
174 @Override
175 public String getId() {
176     // use the path as the id
177     return path;
178 }
179
180 @Override
181 public Future<Void> getAuthorizations(io.vertx.ext.auth.User user) {
182     String username = user.principal().getString("username");
183     return getUser(username)
184         .onSuccess(record -> {
185             Set<Authorization> result = new HashSet<>();
186             for (Role role : record.roles.values()) {
187                 result.add(RoleBasedAuthorization.create(role.name));
188                 for (String permission : role.permissions) {
189                     result.add(WildcardPermissionBasedAuthorization.create(permission));
190                 }
191             }
192             user.authorizations().put(getId(), result);
193         })
194         .mapEmpty();
195 }
196 }

```