

Annexe A

Appendice

A.1 Traces nmap

Trace A

```
SENT (0.5190s) TCP 134.214.143.195:53 > 134.214.142.10:22 S ttl=64 id=45396 iplen=44
SENT (0.5190s) TCP 134.214.143.195:53 > 134.214.142.10:443 S ttl=64 id=23365 iplen=44
SENT (0.5190s) TCP 134.214.143.195:53 > 134.214.142.10:80 S ttl=64 id=53776 iplen=44
SENT (0.5190s) TCP 134.214.143.195:53 > 134.214.142.10:8080 S ttl=64 id=24307 iplen=44
SENT (0.5190s) TCP 134.214.143.195:53 > 134.214.142.10:631 S ttl=64 id=16206 iplen=44
RCVD (0.5190s) TCP 134.214.142.10:22 > 134.214.143.195:53 SA ttl=64 id=0 iplen=44
RCVD (0.5190s) TCP 134.214.142.10:443 > 134.214.143.195:53 SA ttl=64 id=0 iplen=44
RCVD (0.5190s) TCP 134.214.142.10:80 > 134.214.143.195:53 SA ttl=64 id=0 iplen=44
RCVD (0.5190s) TCP 134.214.142.10:8080 > 134.214.143.195:53 SA ttl=64 id=0 iplen=44
RCVD (0.5200s) TCP 134.214.142.10:631 > 134.214.143.195:53 RA ttl=64 id=0 iplen=40
```

Trace B

```
SENT (0.2300s) TCP 134.214.235.21:53 > 134.214.142.10:443 S ttl=64 id=49208 iplen=44
SENT (0.2300s) TCP 134.214.235.21:53 > 134.214.142.10:80 S ttl=64 id=32073 iplen=44
SENT (0.2300s) TCP 134.214.235.21:53 > 134.214.142.10:8080 S ttl=64 id=30178 iplen=44
SENT (0.2300s) TCP 134.214.235.21:53 > 134.214.142.10:22 S ttl=64 id=38225 iplen=44
SENT (0.2300s) TCP 134.214.235.21:53 > 134.214.142.10:631 S ttl=64 id=9262 iplen=44
RCVD (0.2320s) TCP 134.214.142.10:443 > 134.214.235.21:53 SA ttl=64 id=0 iplen=44
RCVD (0.2330s) TCP 134.214.142.10:80 > 134.214.235.21:53 SA ttl=64 id=0 iplen=44
RCVD (0.2340s) TCP 134.214.142.10:8080 > 134.214.235.21:53 SA ttl=64 id=0 iplen=44
SENT (1.3310s) TCP 134.214.235.21:53 > 134.214.142.10:631 S ttl=64 id=39325 iplen=44
SENT (1.3310s) TCP 134.214.235.21:53 > 134.214.142.10:22 S ttl=64 id=370 iplen=44
```

A.2 Syntaxe concrète web.xml

```
<security-constraint>
  <web-resource-collection>
    <web-resource-name>restricted methods</web-resource-name>
    <url-pattern>/*</url-pattern>
    <url-pattern>/acme/wholesale/*</url-pattern>
    <url-pattern>/acme/retail/*</url-pattern>
    <http-method>DELETE</http-method>
    <http-method>PUT</http-method>
  </web-resource-collection>
  <auth-constraint/>
</security-constraint>
<security-constraint>
```

```

<web-resource-collection>
  <web-resource-name>wholesale</web-resource-name>
  <url-pattern>/acme/wholesale/*</url-pattern>
  <http-method>GET</http-method>
  <http-method>PUT</http-method>
</web-resource-collection>
<auth-constraint>
  <role-name>SALESCLERK</role-name>
</auth-constraint>
</security-constraint>
<security-constraint>
  <web-resource-collection>
    <web-resource-name>wholesale</web-resource-name>
    <url-pattern>/acme/wholesale/*</url-pattern>
    <http-method>GET</http-method>
    <http-method>POST</http-method>
  </web-resource-collection>
  <auth-constraint>
    <role-name>CONTRACTOR</role-name>
  </auth-constraint>
</security-constraint>
<security-constraint>
  <web-resource-collection>
    <web-resource-name>retail</web-resource-name>
    <url-pattern>/acme/retail/*</url-pattern>
    <http-method>GET</http-method>
    <http-method>POST</http-method>
  </web-resource-collection>
  <auth-constraint>
    <role-name>CONTRACTOR</role-name>
    <role-name>HOMEOWNER</role-name>
  </auth-constraint>
</security-constraint>

```

A.3 Exemple XACML

```

PS_patient = <Null, <P_patient_record, P_medical_record>, p-o>
P_patient_record = <Null, <RP1, RP2, RP3>, d-o>
P_medical_record = <Null, <RM1, RM2>, d-o>

```

```

RP1 =
  < p,
    subject(patient) /\ action(read) /\ resource(patient_record),
    patient(id,X) /\ patient_record(id,Y) /\
    (X = Y /\ (age(Y) < 18 /\ guardian(X,Y)))>

```

```

RP2 =
  < p,
    subject(patient) /\ action(write) /\ resource(patient_survey),
    patient(id,X) /\ patient_survey(id, X)>

```

```

RP3=
  < p,

```

```

(subject(doctor) /\ subject(nurse)) /\ action(read) /\ resource(patient_record),
true>

RM1 =
< p,
subject(doctor) /\ action(write) /\ resource(medical_record),
doctor(id,X) /\ patient(id,Y) /\ medical_record(id, Y) /\ patient_doctor(Y,X)>

RM2 =
< d,
subject(doctor) /\ action(write) /\ resource(medical_record),
doctor(id,X), patient(id,Y), medical_record(id, Y), not
patient_doctor(Y,X)>

```

A.4 Délibérations de la CNIL