# RESUMEN PRUEBAS:

Tests y aspectos revisados en el proceso de validación sobre el software.

1. Despliegue del componente.
2. Documentación aportada. (Readme, comentarios en código, etc…)
3. Validación de endpoints **obtainattributes/obtainpolicies**:
   1. La funcionalidad de los endpoints se ajusta a lo solicitado.

* Formato de respuesta 200 - OK.
* Revisión de tratamiento de errores 500 – Internal Server Error
  1. Test de Integración con PAP-Frontend (JAVA).A partir de situaciones generadas por el Frontend del PAP en JAVA para ver que las diferentes combinaciones están soportadas.

PAP-Frontend(JAVA)  xacml files  PAP-Backend(PYTHON) JSON  PAP-Frontend(PYTHON)

1. Validación de endpoints **saveattributes/savepolicies**:
   1. La funcionalidad de los endpoints se ajusta a lo solicitado.

* Formato de respuesta 200 - OK.
* Revisión de tratamiento de errores 500 – Internal Server Error
  1. Test de Integración con PAP-Frontend (JAVA). A partir de los JSON obtenidos en obtainattributes /obtainpolicies.

PAP-Frontend(PYTHON)  PAP-Backend(PYTHON) JSON  xacml files  PAP-Frontend(JAVA)

* 1. Test de integración de las xacml files generadas con PDP (JAVA).

1. Detalle tratamiento de errores para cada endpoint

* **obtainattributes**: Control de errores correcto según lo esperado. Hay mejoras por hacer pero que no están en la definición del endpoint por lo que no es exigible tenerlo resuelto por el alumno:
  + un retorno de mensajes de error amigable que permita su identificación y mostrarlo para el usuario final del Frontend.
* **saveattributes**: Control de errores correcto según lo esperado, se contempla que el formato sea el esperado y no falte ninguno de los campos que se necesitan para registrar un elemento. Hay mejoras por hacer pero que no están en la definición del endpoint por lo que no es exigible tenerlo resuelto por el alumno:
  + un control de errores para que no se duplique el mismo elemento 2 veces  En teoría no debería suceder nada si desde el backend se envía adecuamente la información pero no estaría de más contemplarlo.
  + un retorno de mensajes de error amigable que permita su identificación y mostrarlo para el usuario final del Frontend.
* **obtainpolicies**: No se ha conseguido devolver un 500 error intentando alterar el formato del XACML, dependiento del error que se quiere forzar te devuelve un fichero vacío o puede mezclar policies y rules….
* **savepolicies:** Control de errores correcto según lo esperado cuando el JSON no está bien formado. Hay mejoras por hacer pero que no están en la definición del endpoint por lo que no es exigible tenerlo resuelto por el alumno:
  + El control de errores no exige la existencia de ciertos campos cuando un elemento aparece por ejemplo admite una rule sin el “RuleId” y “Effect”.  En teoría no debería suceder nada si desde el backend se envía adecuamente la información pero no estaría de más contemplarlo.
  + un control de errores para que no se duplique el nombre de 2 policies o de 2 rules dentro de la misma policy  En teoría no debería suceder nada si desde el backend se envía adecuamente la información pero no estaría de más contemplarlo.
  + un retorno de mensajes de error amigable que permita su identificación y mostrarlo para el usuario final del Frontend.

# Pruebas Pendientes

1. Repetir las pruebas de integración (puntos 3 y 4) con PAP-Frontend(PYTHON).
2. Test de integración de las xacml files generadas con PDP (PYTHON).

# VALORACION:

**Documentación:** contempla la estructura requerida, pero falta la documentación en cuanto a los endpoints de la API que ofrece el componente, algunos ejemplos de como usarlo. Esto se puede añadir en el README.md desde donde complementariamente se puede hacer referencia a una colección postman también incluida en el proyecto y que sirva para testearlo rápidamente.

**Software:**

Funcional según lo solicitado, hay algunos detalles menores que no son 100% relevantes, dado que en principio deberían de estar controlados si el PAP-Frontend envía la información de forma adecuada, por lo que es 100% operativo y cumple con lo que se pedía.

Al proceder de JAVA parece que hay más ficheros de los que realmente hacen falta ya que se ha seguido la estructura actual como se pedía, quizás esa parte hubiera quedado más controlada (limpia) si no se hubiera seguido esa inercia, no obstante lo que se solicitó era partir de lo que hay en JAVA por lo que funcionando se ha realizado lo solicitado.

La parte que quizás queda más en el aire es en cuanto a la detección de los errores a efectos que se informe adecuadamente para que el PAP-Frontend pueda saber que ha pasado e informe al usuario final, pero a estos efectos no es algo de especial importancia, ya que es una herramienta interna y si todo está bien hecho son mensajes que rara vez podrían aparecer y que en cualquier momento puede ser ajustados.

**Despliegue:** Dockerización del componente correcta y sin incidencias. (EXTRA)

# AOB:

Para CI/CD, añadir un endpoint simplemente para comprobar que el servicio está UP que devuelva un 200 sin más, para que si por alguna circunstacia el servicio se para podamos detectarlo a través de la API. Se puede usar los GET actuales pero de esta forma será mas eficiente porque realmente no nos interesa información (ni queremos que aparezca trafico) solamente recibir un 200.

# DETALLE DE PRUEBAS:

## obtainattributes (PAP-Frontend-JAVA)

**→ REVISION: OK**

### 0 atributos

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<attributes storingDate="2023-04-13T15:30:26.742931">

<attributes />

</attributes>

#### JSON

[]

#### PAP-Frontend-PYTHON

OK

### 1 resource

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<attributes storingDate="2023-04-14T08:50:49.980563">

<attributes>

<attribute name="http://resource1" xacml\_id="urn:oasis:names:tc:xacml:1.0:resource:resource-id" sortedValue="resource" xacml\_DataType="#string" />

</attributes>

</attributes>

#### JSON

[

{

"name": {"type": "Property","value": "[http://resource1](http://resource1/)"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"},

"sortedValue": {"type": "Property","value": "resource"},

"xacml\_DataType": {"type": "Property","value": "#string"}

}

]

#### PAP-Frontend-PYTHON

OK

### 1 action.

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<attributes storingDate="2023-04-14T08:54:09.008471">

<attributes>

<attribute name="GET" xacml\_id="urn:oasis:names:tc:xacml:1.0:action:action-id" sortedValue="action" xacml\_DataType="#string" />

</attributes>

</attributes>

#### JSON

[

{

"name": {"type": "Property","value": "GET"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:action:action-id"},

"sortedValue": {"type": "Property","value": "action"},

"xacml\_DataType": {"type": "Property","value": "#string"}

}

]

#### PAP-Frontend-PYTHON

OK

### 1 subject.

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<attributes storingDate="2023-04-14T08:55:55.545193">

<attributes>

<attribute name="prueba" xacml\_id="urn:ietf:params:scim:schemas:core:2.0:username" sortedValue="subject" xacml\_DataType="#string" />

</attributes>

</attributes>

#### JSON

[

{

"name": {"type": "Property","value": "prueba"},

"xacml\_id": {"type": "Property","value": "urn:ietf:params:scim:schemas:core:2.0:username"},

"sortedValue": {"type": "Property","value": "subject"},

"xacml\_DataType": {"type": "Property","value": "#string"}

}

]

#### PAP-Frontend-PYTHON

OK

### 3 resource + 3 actions + 3 subjects.

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<attributes storingDate="2023-04-14T09:01:12.765451">

<attributes>

<attribute name="prueba" xacml\_id="urn:ietf:params:scim:schemas:core:2.0:username" sortedValue="subject" xacml\_DataType="#string" />

<attribute name="prueba@email" xacml\_id="urn:ietf:params:scim:schemas:core:2.0:email" sortedValue="subject" xacml\_DataType="#string" />

<attribute name="prueba\_id" xacml\_id="urn:ietf:params:scim:schemas:core:2.0:id" sortedValue="subject" xacml\_DataType="#string" />

<attribute name="GET" xacml\_id="urn:oasis:names:tc:xacml:1.0:action:action-id" sortedValue="action" xacml\_DataType="#string" />

<attribute name="POST" xacml\_id="urn:oasis:names:tc:xacml:1.0:action:action-id" sortedValue="action" xacml\_DataType="#string" />

<attribute name="DELETE" xacml\_id="urn:oasis:names:tc:xacml:1.0:action:action-id" sortedValue="action" xacml\_DataType="#string" />

<attribute name="http:/resource1" xacml\_id="urn:oasis:names:tc:xacml:1.0:resource:resource-id" sortedValue="resource" xacml\_DataType="#string" />

<attribute name="http:/resource2" xacml\_id="urn:oasis:names:tc:xacml:1.0:resource:resource-id" sortedValue="resource" xacml\_DataType="#string" />

<attribute name="http:/resource3" xacml\_id="urn:oasis:names:tc:xacml:1.0:resource:resource-id" sortedValue="resource" xacml\_DataType="#string" />

</attributes>

</attributes>

#### JSON

[

{

"name": {"type": "Property","value": "prueba"},

"xacml\_id": {"type": "Property","value": "urn:ietf:params:scim:schemas:core:2.0:username"},

"sortedValue": {"type": "Property","value": "subject"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "prueba@email"},

"xacml\_id": {"type": "Property","value": "urn:ietf:params:scim:schemas:core:2.0:email"},

"sortedValue": {"type": "Property","value": "subject"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "prueba\_id"},

"xacml\_id": {"type": "Property","value": "urn:ietf:params:scim:schemas:core:2.0:id"},

"sortedValue": {"type": "Property","value": "subject"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "GET"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:action:action-id"},

"sortedValue": {"type": "Property","value": "action"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "POST"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:action:action-id"},

"sortedValue": {"type": "Property","value": "action"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "DELETE"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:action:action-id"},

"sortedValue": {"type": "Property","value": "action"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "http:/resource1"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"},

"sortedValue": {"type": "Property","value": "resource"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "http:/resource2"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"},

"sortedValue": {"type": "Property","value": "resource"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "http:/resource3"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"},

"sortedValue": {"type": "Property","value": "resource"},

"xacml\_DataType": {"type": "Property","value": "#string"}

}

]

### Validación errores.

#### Error de formato en el fichero XACML

Resultado: “500 – Internal server Error”  OK

#### PAP-Frontend-PYTHON

OK

## saveattributes

**→ REVISION: OK**

### 0 atributos.

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<attributes storingDate="2023-04-14T11:40:19.353708Z">

<attributes/>

</attributes>

#### Integracion PAP(JAVA)

OK

### 1 resource.

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"name": {"type": "Property","value": "[http://resource1](http://resource1/)"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"},

"sortedValue": {"type": "Property","value": "resource"},

"xacml\_DataType": {"type": "Property","value": "#string"}

}

]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<attributes storingDate="2023-04-14T11:42:33.391449Z">

<attributes>

<attribute name="http://resource1" xacml\_id="urn:oasis:names:tc:xacml:1.0:resource:resource-id" sortedValue="resource" xacml\_DataType="#string"/>

</attributes>

</attributes>

#### Integracion PAP(JAVA)

OK

### 1 action.

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"name": {"type": "Property","value": "GET"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:action:action-id"},

"sortedValue": {"type": "Property","value": "action"},

"xacml\_DataType": {"type": "Property","value": "#string"}

}

]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<attributes storingDate="2023-04-14T11:44:31.017714Z">

<attributes>

<attribute name="GET" xacml\_id="urn:oasis:names:tc:xacml:1.0:action:action-id" sortedValue="action" xacml\_DataType="#string"/>

</attributes>

</attributes>

#### Integracion PAP(JAVA)

OK

### 1 subject.

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"name": {"type": "Property","value": "prueba"},

"xacml\_id": {"type": "Property","value": "urn:ietf:params:scim:schemas:core:2.0:username"},

"sortedValue": {"type": "Property","value": "subject"},

"xacml\_DataType": {"type": "Property","value": "#string"}

}

]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<attributes storingDate="2023-04-14T11:46:52.445468Z">

<attributes>

<attribute name="prueba" xacml\_id="urn:ietf:params:scim:schemas:core:2.0:username" sortedValue="subject" xacml\_DataType="#string"/>

</attributes>

</attributes>

#### Integracion PAP(JAVA)

OK

### 3 resource + 3 action + 3 subjects.

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"name": {"type": "Property","value": "prueba"},

"xacml\_id": {"type": "Property","value": "urn:ietf:params:scim:schemas:core:2.0:username"},

"sortedValue": {"type": "Property","value": "subject"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "prueba@email"},

"xacml\_id": {"type": "Property","value": "urn:ietf:params:scim:schemas:core:2.0:email"},

"sortedValue": {"type": "Property","value": "subject"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "prueba\_id"},

"xacml\_id": {"type": "Property","value": "urn:ietf:params:scim:schemas:core:2.0:id"},

"sortedValue": {"type": "Property","value": "subject"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "GET"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:action:action-id"},

"sortedValue": {"type": "Property","value": "action"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "POST"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:action:action-id"},

"sortedValue": {"type": "Property","value": "action"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "DELETE"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:action:action-id"},

"sortedValue": {"type": "Property","value": "action"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "http:/resource1"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"},

"sortedValue": {"type": "Property","value": "resource"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "http:/resource2"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"},

"sortedValue": {"type": "Property","value": "resource"},

"xacml\_DataType": {"type": "Property","value": "#string"}

},

{

"name": {"type": "Property","value": "http:/resource3"},

"xacml\_id": {"type": "Property","value": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"},

"sortedValue": {"type": "Property","value": "resource"},

"xacml\_DataType": {"type": "Property","value": "#string"}

}

]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<attributes storingDate="2023-04-14T11:49:14.114395Z">

<attributes>

<attribute name="prueba" xacml\_id="urn:ietf:params:scim:schemas:core:2.0:username" sortedValue="subject" xacml\_DataType="#string"/>

<attribute name="prueba@email" xacml\_id="urn:ietf:params:scim:schemas:core:2.0:email" sortedValue="subject" xacml\_DataType="#string"/>

<attribute name="prueba\_id" xacml\_id="urn:ietf:params:scim:schemas:core:2.0:id" sortedValue="subject" xacml\_DataType="#string"/>

<attribute name="GET" xacml\_id="urn:oasis:names:tc:xacml:1.0:action:action-id" sortedValue="action" xacml\_DataType="#string"/>

<attribute name="POST" xacml\_id="urn:oasis:names:tc:xacml:1.0:action:action-id" sortedValue="action" xacml\_DataType="#string"/>

<attribute name="DELETE" xacml\_id="urn:oasis:names:tc:xacml:1.0:action:action-id" sortedValue="action" xacml\_DataType="#string"/>

<attribute name="http:/resource1" xacml\_id="urn:oasis:names:tc:xacml:1.0:resource:resource-id" sortedValue="resource" xacml\_DataType="#string"/>

<attribute name="http:/resource2" xacml\_id="urn:oasis:names:tc:xacml:1.0:resource:resource-id" sortedValue="resource" xacml\_DataType="#string"/>

<attribute name="http:/resource3" xacml\_id="urn:oasis:names:tc:xacml:1.0:resource:resource-id" sortedValue="resource" xacml\_DataType="#string"/>

</attributes>

</attributes>

#### Integracion PAP(JAVA)

OK

### Validación errores.

#### Objeto mal formado (JSON error de formato)

Resultado: “500 – Internal server Error”  OK

#### Objeto vacío []

Resultado: “500 – Internal server Error”  OK

#### Objeto sin “name”

Resultado: “500 – Internal server Error”  OK

#### Objeto sin “xacml\_id”

Resultado: “500 – Internal server Error”  OK

#### Objeto sin “sortedValue”

Resultado: “500 – Internal server Error”  OK

#### Objeto con “sortedValue” distinto de action/resource/subject

Resultado: “500 – Internal server Error”  OK

#### Objeto sin “xacml\_DataType”

Resultado: “500 – Internal server Error”  OK

#### Evitar resource duplicado.

Resultado: No controla duplicado, lo ideal sería devolver un error donde indique siguiendo el mismo formato de JSON de error actual, “Resource already exists”. Este mensaje de error será detectado y mostrado expecíficamente por el PAP-Frontend para indicar que se ha querido duplicar.

#### Evitar action duplicada.

Resultado: No controla duplicado, lo ideal sería devolver un error donde indique siguiendo el mismo formato de JSON de error actual, “Action already exists”. Este mensaje de error será detectado y mostrado expecíficamente por el PAP-Frontend para indicar que se ha querido duplicar.

#### Evitar subject duplicado.

Resultado: No controla duplicado, lo ideal sería devolver un error donde indique siguiendo el mismo formato de JSON de error actual, “Subject/type already exists”. Este mensaje de error será detectado y mostrado expecíficamente por el PAP-Frontend para indicar que se ha querido duplicar.

## obtainpolicies (PAP-Frontend-JAVA)

**→ REVISION: OK**

### 0 políticas

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target />

</PolicySet>

#### JSON

[]

#### PAP-Frontend-PYTHON

* + - 1. OK

### 1 política: 0 Rules

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target />

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

</Policy>

</PolicySet>

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

}

}

]

#### PAP-Frontend-PYTHON

* + - 1. OK

### 2 políticas: 0 Rules (ambas)

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target />

<Policy PolicyId="pol1" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

</Policy>

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

</Policy>

</PolicySet>

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol1"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

}

},

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

}

}

]

#### PAP-Frontend-PYTHON

* + - 1. OK

### 1 política: 1 Rule vacía (Permit)

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target />

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

<Rule Effect="Permit" RuleId="rulevacia">

<Target />

</Rule>

</Policy>

</PolicySet>

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rulevacia"

},

"Effect": {

"type": "Property",

"value": "Permit"

}

}

]

}

]

#### PAP-Frontend-PYTHON

* + - 1. OK

### 1 política: 1 Rule vacía (Deny)

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target />

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

<Rule Effect="Deny" RuleId="rulevacia">

<Target />

</Rule>

</Policy>

</PolicySet>

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rulevacia"

},

"Effect": {

"type": "Property",

"value": "Deny"

}

}

]

}

]

#### PAP-Frontend-PYTHON

* + - 1. OK

### 1 política:

* **1 Rule vacía (Permit)**
* **1 Rule vacía (Deny)**

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target />

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

<Rule Effect="Permit" RuleId="rulevacia">

<Target />

</Rule>

<Rule Effect="Deny" RuleId="rulevacia2">

<Target />

</Rule>

</Policy>

</PolicySet>

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rulevacia"

},

"Effect": {

"type": "Property",

"value": "Permit"

}

},

{

"RuleId": {

"type": "Property",

"value": "rulevacia2"

},

"Effect": {

"type": "Property",

"value": "Deny"

}

}

]

}

]

#### PAP-Frontend-PYTHON

* + - 1. OK

### 3 políticas:

* **0 Rules**
* **Rule vacía (Permit)**
* **1 Rule (1r, 1a, 1s) (Deny)**

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target />

<Policy PolicyId="pol1" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

<Rule Effect="Permit" RuleId="rule1">

<Target />

</Rule>

</Policy>

<Policy PolicyId="pol2" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

<Rule Effect="Deny" RuleId="rule2">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">GET</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

</Policy>

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

</Policy>

</PolicySet>

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol1"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule1"

},

"Effect": {

"type": "Property",

"value": "Permit"

}

}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol2"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule2"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Subjects": [

{

"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

}

],

"Resources": [

{

"AttributeValue": "http:/resource2",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

],

"Actions": [

{

"AttributeValue": "GET",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

}

}

]

#### PAP-Frontend-PYTHON

* + - 1. OK

### 6 políticas:

* **0 Rules**
* **1 Rule vacía (Permit)**
* **3 Rules (Permit-1r, 0a, 0s) (Deny-0r, 1a, 0s) (Permit-0r, 0a, 1s)**
* **3 Rules (Deny-2r, 0a, 0s) (Permit-0r, 2a, 0s) (Deny-0r, 0a, 2s)**
* **3 Rules (Permit-2r, 1a, 1s) (Deny-1r, 2a, 1s) (Permit-1r, 1a, 2s)**
* **3 Rules (Deny-2r, 2a, 1s) (Permit-2r, 1a, 2s) (Deny-1r, 2a, 2s)**

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target />

<Policy PolicyId="pol1" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

<Rule Effect="Deny" RuleId="rule1">

<Target />

</Rule>

</Policy>

<Policy PolicyId="pol2" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

<Rule Effect="Permit" RuleId="rule2-1">

<Target>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource1</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

</Resources>

</Target>

</Rule>

<Rule Effect="Deny" RuleId="rule2-2">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:username" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

</Subjects>

</Target>

</Rule>

<Rule Effect="Permit" RuleId="rule2-3">

<Target>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">POST</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

</Policy>

<Policy PolicyId="pol3" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

<Rule Effect="Deny" RuleId="rule3-1">

<Target>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

</Resources>

</Target>

</Rule>

<Rule Effect="Permit" RuleId="rule3-2">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:username" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

</Subjects>

</Target>

</Rule>

<Rule Effect="Deny" RuleId="rule3-3">

<Target>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">POST</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">GET</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

</Policy>

<Policy PolicyId="pol4" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

<Rule Effect="Permit" RuleId="rule4-1">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba@email</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:email" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">DELETE</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

<Rule Effect="Deny" RuleId="rule4-2">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba@email</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:email" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">DELETE</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

<Rule Effect="Permit" RuleId="rule4-3">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">DELETE</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">GET</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

</Policy>

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

</Policy>

<Policy PolicyId="pol5" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target />

<Rule Effect="Deny" RuleId="rule5-1">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba@email</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:email" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">DELETE</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

<Rule Effect="Permit" RuleId="rule5-2">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">POST</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">DELETE</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

<Rule Effect="Deny" RuleId="rule5-3">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:username" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba@email</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:email" DataType="http://www.w3.org/2001/XMLSchema#string" />

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">POST</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">DELETE</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string" />

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

</Policy>

</PolicySet>

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol1"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule1"

},

"Effect": {

"type": "Property",

"value": "Deny"

}

}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol2"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule2-1"

},

"Effect": {

"type": "Property",

"value": "Permit"

},

"Resources": [

{

"AttributeValue": "http:/resource1",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule2-2"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Subjects": [

{

"AttributeValue": "prueba",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:username"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule2-3"

},

"Effect": {

"type": "Property",

"value": "Permit"

},

"Actions": [

{

"AttributeValue": "POST",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol3"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule3-1"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Resources": [

{

"AttributeValue": "http:/resource2",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

},

{

"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule3-2"

},

"Effect": {

"type": "Property",

"value": "Permit"

},

"Subjects": [

{

"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

},

{

"AttributeValue": "prueba",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:username"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule3-3"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Actions": [

{

"AttributeValue": "POST",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

},

{

"AttributeValue": "GET",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol4"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule4-1"

},

"Effect": {

"type": "Property",

"value": "Permit"

},

"Subjects": [

{

"AttributeValue": "prueba@email",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:email"

}

],

"Resources": [

{

"AttributeValue": "http:/resource2",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

},

{

"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

],

"Actions": [

{

"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule4-2"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Subjects": [

{

"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

},

{

"AttributeValue": "prueba@email",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:email"

}

],

"Resources": [

{

"AttributeValue": "http:/resource2",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

],

"Actions": [

{

"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule4-3"

},

"Effect": {

"type": "Property",

"value": "Permit"

},

"Subjects": [

{

"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

}

],

"Resources": [

{

"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

],

"Actions": [

{

"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

},

{

"AttributeValue": "GET",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

}

},

{

"PolicyId": {

"type": "Property",

"value": "pol5"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule5-1"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Subjects": [

{

"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

},

{

"AttributeValue": "prueba@email",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:email"

}

],

"Resources": [

{

"AttributeValue": "http:/resource2",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

},

{

"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

],

"Actions": [

{

"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule5-2"

},

"Effect": {

"type": "Property",

"value": "Permit"

},

"Subjects": [

{

"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

}

],

"Resources": [

{

"AttributeValue": "http:/resource2",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

},

{

"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

],

"Actions": [

{

"AttributeValue": "POST",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

},

{

"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule5-3"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Subjects": [

{

"AttributeValue": "prueba",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:username"

},

{

"AttributeValue": "prueba@email",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:email"

}

],

"Resources": [

{

"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

],

"Actions": [

{

"AttributeValue": "POST",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

},

{

"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

}

]

}

]

#### PAP-Frontend-PYTHON

* + - 1. OK

### Validación errores.

#### Error de formato en el fichero XACML

Resultado: No es tan sensible a cambios o errores de formato como en el caso de obtainatributes que directamente da error. En este caso siempre devuelve un 200, y además dependiendo del tipo de error es posible que interprete incorrectamente el contenido. Por ejemplo que asigne a una policy las reglas de otro…

## savepolicies

**→ REVISION: OK**

### 0 políticas

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target/>

</PolicySet>

#### Integracion PAP(JAVA)

OK

#### Integracion PDP(JAVA)

NotApplicable  OK

### 1 política: 0 Rules

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

}

}

]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target/>

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

</Policy>

</PolicySet>

#### Integracion PAP(JAVA)

OK

#### Integracion PDP(JAVA)

NotApplicable  OK

### 2 políticas: 0 Rules (ambas)

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol1"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

}

},

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

}

}

]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target/>

<Policy PolicyId="pol1" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

</Policy>

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

</Policy>

</PolicySet>

#### Integracion PAP(JAVA)

OK

#### Integracion PDP(JAVA)

NotApplicable  OK

### 1 política: 1 Rule vacía (Permit)

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rulevacia"

},

"Effect": {

"type": "Property",

"value": "Permit"

}

}

]

}

]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target/>

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

<Rule Effect="Permit" RuleId="rulevacia">

<Target/>

</Rule>

</Policy>

</PolicySet>

#### Integracion PAP(JAVA)

OK

#### Integracion PDP(JAVA)

Permit  OK

### 1 política: 1 Rule vacía (Deny)

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rulevacia"

},

"Effect": {

"type": "Property",

"value": "Deny"

}

}

]

}

]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target/>

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

<Rule Effect="Deny" RuleId="rulevacia">

<Target/>

</Rule>

</Policy>

</PolicySet>

#### Integracion PAP(JAVA)

OK

#### Integracion PDP(JAVA)

Deny  OK

### 1 política:

* **1 Rule vacía (Permit)**
* **1 Rule vacía (Deny)**

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rulevacia"

},

"Effect": {

"type": "Property",

"value": "Permit"

}

},

{

"RuleId": {

"type": "Property",

"value": "rulevacia2"

},

"Effect": {

"type": "Property",

"value": "Deny"

}

}

]

}

]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target/>

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

<Rule Effect="Permit" RuleId="rulevacia">

<Target/>

</Rule>

<Rule Effect="Deny" RuleId="rulevacia2">

<Target/>

</Rule>

</Policy>

</PolicySet>

#### Integracion PAP(JAVA)

OK

#### Integracion PDP(JAVA)

Permit  OK

### 3 políticas:

* **0 Rules**
* **Rule vacía (Permit)**
* **1 Rule (1r, 1a, 1s) (Deny)**

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol1"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule1"

},

"Effect": {

"type": "Property",

"value": "Permit"

}

}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol2"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule2"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Subjects": [

{

"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

}

],

"Resources": [

{

"AttributeValue": "http:/resource2",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

],

"Actions": [

{

"AttributeValue": "GET",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol0"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

}

}

]

#### XACML

<?xml version="1.0" encoding="UTF-8"?>

<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target/>

<Policy PolicyId="pol1" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

<Rule Effect="Permit" RuleId="rule1">

<Target/>

</Rule>

</Policy>

<Policy PolicyId="pol2" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

<Rule Effect="Deny" RuleId="rule2">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">GET</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

</Policy>

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

</Policy>

</PolicySet>

#### Integracion PAP(JAVA)

OK

#### Integracion PDP(JAVA)

NotApplicable  OK

Permit  OK

Deny  OK

### 6 políticas:

* **0 Rules**
* **1 Rule vacía (Permit)**
* **3 Rules (Permit-1r, 0a, 0s) (Deny-0r, 1a, 0s) (Permit-0r, 0a, 1s)**
* **3 Rules (Deny-2r, 0a, 0s) (Permit-0r, 2a, 0s) (Deny-0r, 0a, 2s)**
* **3 Rules (Permit-2r, 1a, 1s) (Deny-1r, 2a, 1s) (Permit-1r, 1a, 2s)**
* **3 Rules (Deny-2r, 2a, 1s) (Permit-2r, 1a, 2s) (Deny-1r, 2a, 2s)**

#### PAP-Frontend-PYTHON

* + - 1. OK

#### JSON

[

{

"PolicyId": {

"type": "Property",

"value": "pol1"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule1"

},

"Effect": {

"type": "Property",

"value": "Deny"

}

}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol2"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule2-1"

},

"Effect": {

"type": "Property",

"value": "Permit"

},

"Resources": [

{

"AttributeValue": "http:/resource1",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule2-2"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Subjects": [

{

"AttributeValue": "prueba",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:username"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule2-3"

},

"Effect": {

"type": "Property",

"value": "Permit"

},

"Actions": [

{

"AttributeValue": "POST",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol3"

},

"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule3-1"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Resources": [

{

"AttributeValue": "http:/resource2",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

},

{

"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule3-2"

},

"Effect": {

"type": "Property",

"value": "Permit"

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"Subjects": [

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"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

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{

"AttributeValue": "prueba",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:username"

}

]

},

{

"RuleId": {

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"Effect": {

"type": "Property",

"value": "Deny"

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"Actions": [

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"AttributeValue": "POST",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

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{

"AttributeValue": "GET",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

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}

]

},

{

"PolicyId": {

"type": "Property",

"value": "pol4"

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"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

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"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule4-1"

},

"Effect": {

"type": "Property",

"value": "Permit"

},

"Subjects": [

{

"AttributeValue": "prueba@email",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:email"

}

],

"Resources": [

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"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

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{

"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

],

"Actions": [

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"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

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{

"RuleId": {

"type": "Property",

"value": "rule4-2"

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"Effect": {

"type": "Property",

"value": "Deny"

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"Subjects": [

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"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

},

{

"AttributeValue": "prueba@email",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:email"

}

],

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"AttributeValue": "http:/resource2",

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"Actions": [

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"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

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]

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{

"RuleId": {

"type": "Property",

"value": "rule4-3"

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"Effect": {

"type": "Property",

"value": "Permit"

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"Subjects": [

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"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

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"Resources": [

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"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

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"Actions": [

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"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

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{

"AttributeValue": "GET",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

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{

"PolicyId": {

"type": "Property",

"value": "pol0"

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"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

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"PolicyId": {

"type": "Property",

"value": "pol5"

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"RuleCombiningAlgId": {

"type": "Property",

"value": "urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"

},

"Rules": [

{

"RuleId": {

"type": "Property",

"value": "rule5-1"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Subjects": [

{

"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

},

{

"AttributeValue": "prueba@email",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:email"

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],

"Resources": [

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"AttributeValue": "http:/resource2",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

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{

"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

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"Actions": [

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"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

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{

"RuleId": {

"type": "Property",

"value": "rule5-2"

},

"Effect": {

"type": "Property",

"value": "Permit"

},

"Subjects": [

{

"AttributeValue": "prueba\_id",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:id"

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"Resources": [

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{

"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

}

],

"Actions": [

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"AttributeValue": "POST",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

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{

"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

},

{

"RuleId": {

"type": "Property",

"value": "rule5-3"

},

"Effect": {

"type": "Property",

"value": "Deny"

},

"Subjects": [

{

"AttributeValue": "prueba",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:username"

},

{

"AttributeValue": "prueba@email",

"AttributeId": "urn:ietf:params:scim:schemas:core:2.0:email"

}

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"Resources": [

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"AttributeValue": "http:/resource3",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:resource:resource-id"

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],

"Actions": [

{

"AttributeValue": "POST",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

},

{

"AttributeValue": "DELETE",

"AttributeId": "urn:oasis:names:tc:xacml:1.0:action:action-id"

}

]

}

]

}

]

#### XACML

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<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os" PolicyCombiningAlgId="urn:oasis:names:tc:xacml:1.0:policy-combining-algorithm:first-applicable" PolicySetId="POLICY\_SET">

<Target/>

<Policy PolicyId="pol1" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

<Rule Effect="Deny" RuleId="rule1">

<Target/>

</Rule>

</Policy>

<Policy PolicyId="pol2" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

<Rule Effect="Permit" RuleId="rule2-1">

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<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource1</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ResourceMatch>

</Resource>

</Resources>

</Target>

</Rule>

<Rule Effect="Deny" RuleId="rule2-2">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:username" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</SubjectMatch>

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</Subjects>

</Target>

</Rule>

<Rule Effect="Permit" RuleId="rule2-3">

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<Action>

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<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">POST</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

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</Actions>

</Target>

</Rule>

</Policy>

<Policy PolicyId="pol3" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

<Rule Effect="Deny" RuleId="rule3-1">

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<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

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<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ResourceMatch>

</Resource>

</Resources>

</Target>

</Rule>

<Rule Effect="Permit" RuleId="rule3-2">

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<Subjects>

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<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

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<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:username" DataType="http://www.w3.org/2001/XMLSchema#string"/>

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<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

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</Action>

<Action>

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</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

</Policy>

<Policy PolicyId="pol4" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

<Rule Effect="Permit" RuleId="rule4-1">

<Target>

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<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba@email</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:email" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

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<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

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</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

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<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

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</Actions>

</Target>

</Rule>

<Rule Effect="Deny" RuleId="rule4-2">

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<Subject>

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<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</SubjectMatch>

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<Subject>

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<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba@email</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:email" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

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<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ResourceMatch>

</Resource>

</Resources>

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<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

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<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

<Rule Effect="Permit" RuleId="rule4-3">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

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</Subjects>

<Resources>

<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

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<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

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<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">GET</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

</Policy>

<Policy PolicyId="pol0" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

</Policy>

<Policy PolicyId="pol5" RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable">

<Target/>

<Rule Effect="Deny" RuleId="rule5-1">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

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<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba@email</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:email" DataType="http://www.w3.org/2001/XMLSchema#string"/>

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<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ResourceMatch>

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<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">DELETE</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

<Rule Effect="Permit" RuleId="rule5-2">

<Target>

<Subjects>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba\_id</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</SubjectMatch>

</Subject>

</Subjects>

<Resources>

<Resource>

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<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource2</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

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<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

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<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

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<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">DELETE</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

<Rule Effect="Deny" RuleId="rule5-3">

<Target>

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<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:username" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</SubjectMatch>

</Subject>

<Subject>

<SubjectMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">prueba@email</AttributeValue>

<SubjectAttributeDesignator AttributeId="urn:ietf:params:scim:schemas:core:2.0:email" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</SubjectMatch>

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</Subjects>

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<Resource>

<ResourceMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">http:/resource3</AttributeValue>

<ResourceAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ResourceMatch>

</Resource>

</Resources>

<Actions>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">POST</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

</Action>

<Action>

<ActionMatch MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">

<AttributeValue DataType="http://www.w3.org/2001/XMLSchema#string">DELETE</AttributeValue>

<ActionAttributeDesignator AttributeId="urn:oasis:names:tc:xacml:1.0:action:action-id" DataType="http://www.w3.org/2001/XMLSchema#string"/>

</ActionMatch>

</Action>

</Actions>

</Target>

</Rule>

</Policy>

</PolicySet>

#### Integracion PAP(JAVA)

OK

#### Integracion PDP(JAVA)

NotApplicable  OK

Permit  OK

Deny  OK

### Validación errores.

#### Objeto mal formado (JSON error de formato)

Resultado: “500 – Internal server Error”  OK

#### Objeto vacío []

Resultado: “500 – Internal server Error”  OK

#### Objeto con campos esperados esperado no existentes

El control de errores no exige la existencia de ciertos campos cuando un elemento aparece por ejemplo admite una rule sin el “RuleId” y “Effect”.

#### Evitar policy duplicada.

Resultado: No controla duplicado de nombre de la policy, lo ideal sería devolver un error donde indique siguiendo el mismo formato de JSON de error actual, “Policy name already exists”. Este mensaje de error será detectado y mostrado expecíficamente por el PAP-Frontend para indicar que se ha querido duplicar.

#### Evitar rule duplicada en la misma policy

Resultado: No controla duplicado de nombre de una rule dentro de la misma policy, lo ideal sería devolver un error donde indique siguiendo el mismo formato de JSON de error actual, “Rule name already exists in policy ‘{{nombre policy}}’”. Este mensaje de error será detectado y mostrado expecíficamente por el PAP-Frontend para indicar que se ha querido duplicar