

VOMS SAML Status

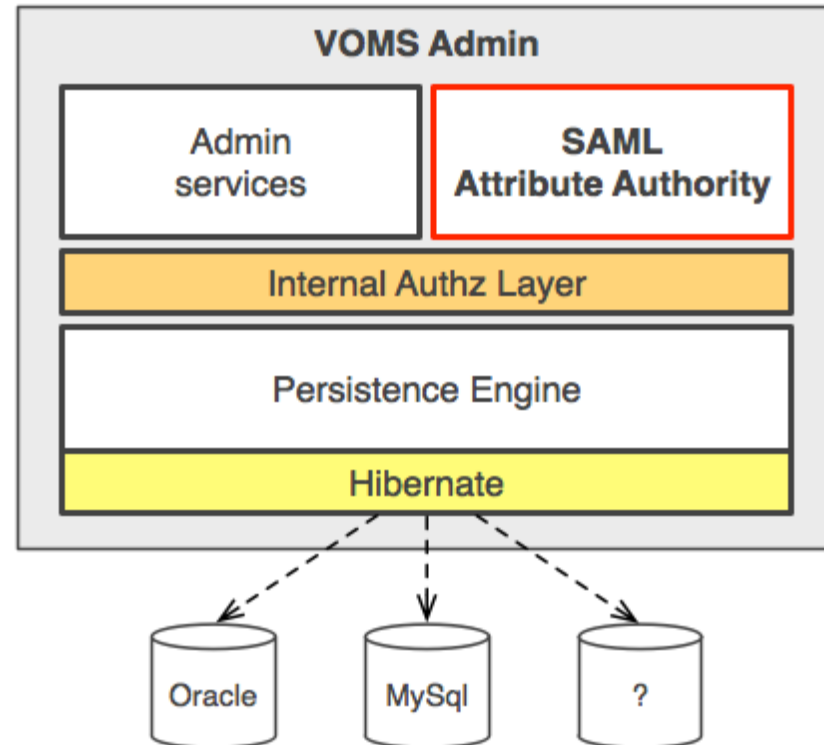
Andrea Ceccanti

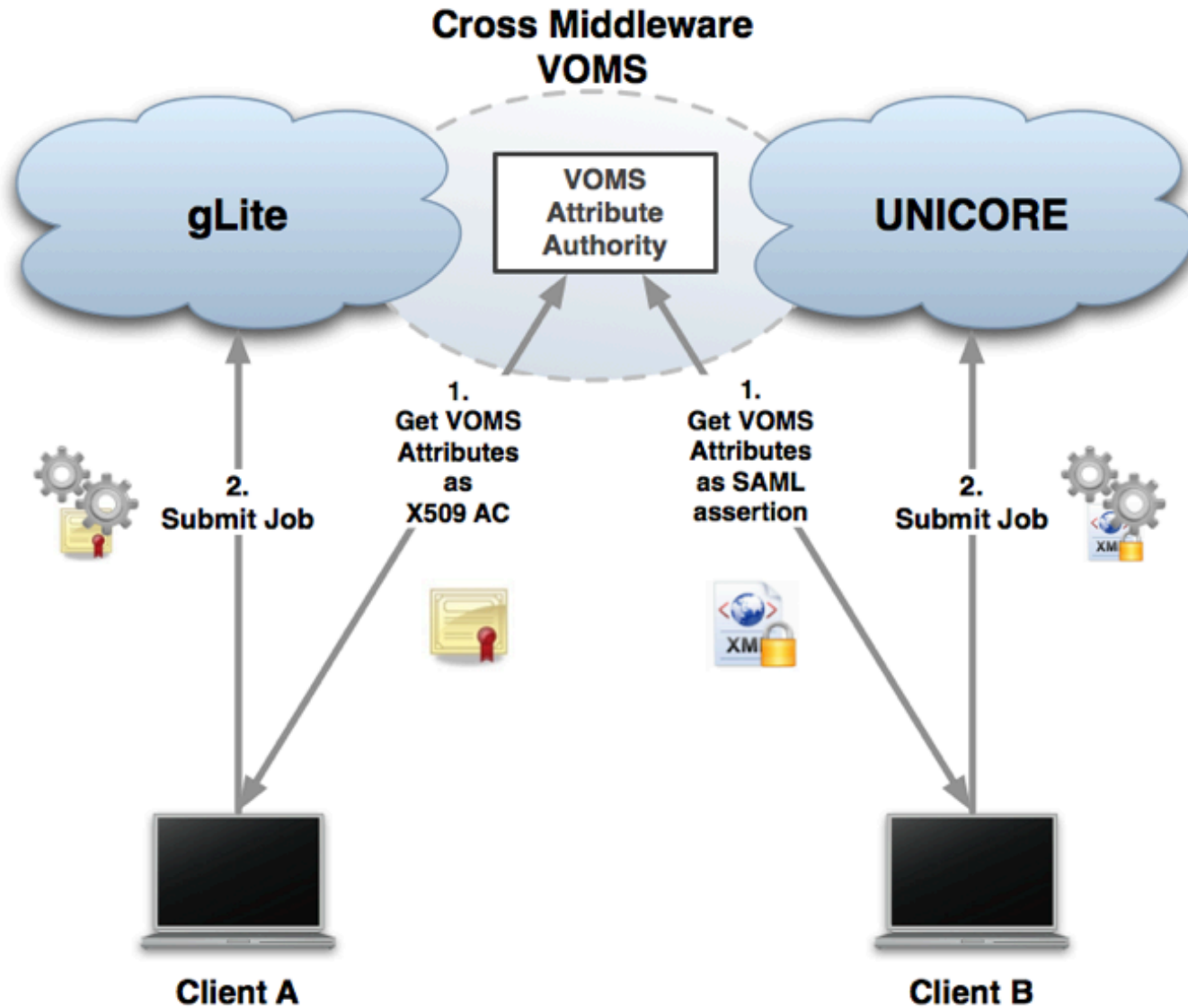
*EMI Security Workshop
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- **An Attribute Authority that issues signed SAML assertions containing VO membership information**
 - VOMS FQANs
 - VOMS generic attributes

- **Part of VOMS Admin**
 - starting with v. 2.0.18
 - in production since several months
 - no real use, though...

- **Goal:**
 - cross-Middleware VO management





```
Response attributeQuery(AttributeQuery query)
```

- **Users can request roles and order the attributes that will be included in the SAML assertion**
 - The ordering in the request is reflected in the issued assertion
- **The service can be configured to only return the FQANs that have been explicitly requested**
 - but the default is the “traditional” VOMS behaviour, i.e. always return all group FQANs
- **No assertions are issued for suspended users**

```

<saml:Assertion>
  <saml:Issuer>...</saml:Issuer>
  <saml:Subject>
    <saml:NameID Format="...X509SubjectName">
      CN=Andrea Ceccanti,L=CNAF,OU=Personal Certificate,O=INFN,C=IT
    </saml:NameID>
  </saml:Subject>
  <saml:Conditions NotBefore="..." NotAfter="..." />
  <saml:AttributeStatement>
    <saml:Attribute Name="...voms-fgan" NameFormat="urn:...">
      <saml:AttributeValue xsi:type="xs:string">
        /dteam
      </saml:AttributeValue>
      <saml:AttributeValue xsi:type="xs:string">
        /dteam/italy
      </saml:AttributeValue>
    </saml:Attribute>
  </saml:AttributeStatement>
  ...
</saml:Assertion>
    
```

the VOMS server that issues the assertion

Subject information, i.e., the DN

Validity information

The Bag of VOMS attributes

- **VOMS SAML must be explicitly activated in the VOMS Admin configuration (since v.2.5.3):**

```
voms.aa.activate_saml_endpoint = true
```

- **VOMS SAML needs access to host certificate and private key to sign the assertions:**

```
voms.aa.certificate = /etc/grid-security/hostcert.pem  
voms.aa.key = /etc/grid-security/hostkey.pem
```

- **You can configure the max lifetime for issued assertions:**

```
voms.saml.max_assertion_lifetime = 720
```

- The protocol to obtain credentials has been standardized:
 - <http://www.ogf.org/documents/GFD.158.pdf>
- **There is no attribute profile for VOMS SAML yet**
 - But we could use/extend the work already done in Argus profiles as a starting point
- The current implementation encodes FQANs as
 - Attribute name: <http://authz-interop.org/xacml/subject/voms-fqan>
 - Data type: <http://www.w3.org/2001/XMLSchema#string>
 - Multiplicity: 1..N