

Spocp & UDS

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Spocp status

- We believe the server is pretty stable
- Slowly adding new spocp aware applications
- Spocp as authZ engine is the first but by no means the only area where spocp will be used

UDS

- Universal Data Distributer/Dispenser
- Comes from the need for a metadirectory tool
- Main features:
 - Routes information depending on metadata and content
 - Uses Spocp as the route engine
 - Uses RDF as the I/O data format
 - SOAP interface to the outside

Resource Description Framework (RDF)

- W3C specification
- Semantic web as origin
- Information describe as relationships between a subjects and a objects (the holy three)
 - Subject is a URL or a Bnode
 - Predicate (relationship) is always a URL
 - Object is a URL, Bnode or Literal

RDF cont.

- Three different types of representations
 - XML
 - N3
 - NTriples

Why RDF in UDS ?

- We believe that most if not all events can be represented in RDF
- There exists a reversible transformation between a RDF Ntriples representation and a S-expression representation.
- Plenty of libraries that handles RDF

RDF in UDS cont

The event

Nov 3 14:33:53 localhost kernel: AirPort: Link UP: "ic" - 000d29f0a945 - chan 11

RDF-NTriples

<syslog#3> <date> "Nov 3 14:33:53" .

<syslog#3> <host> "localhost" .

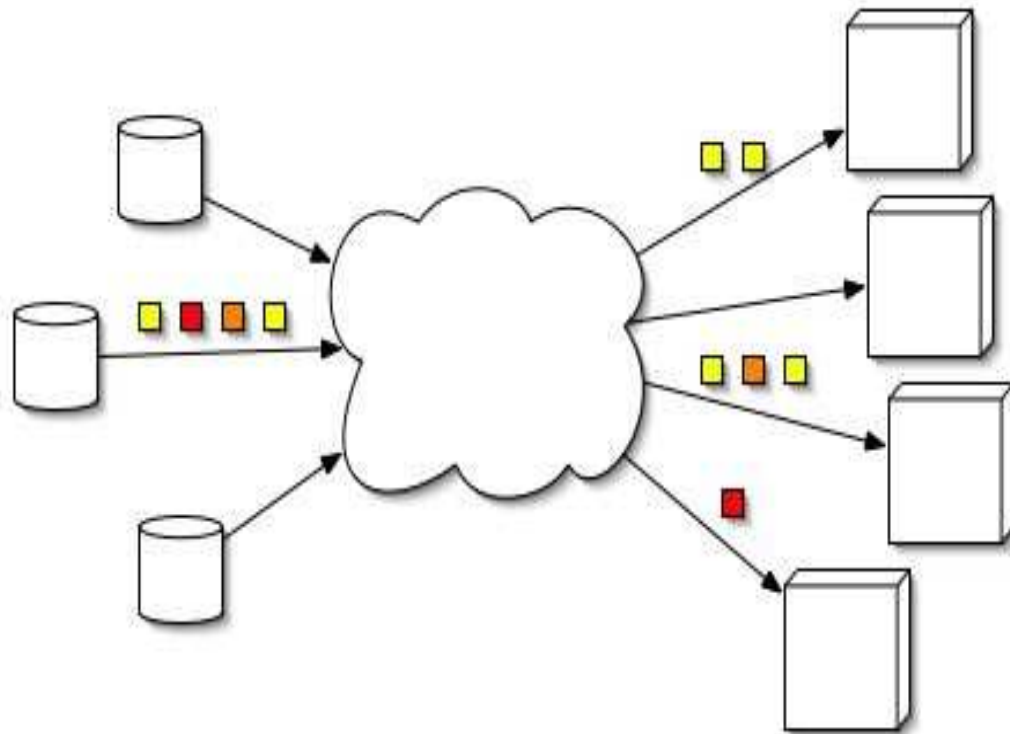
<syslog#3> <process> "kernel" .

<syslog#3> <msg> "AirPort: Link UP: 'ic' - 000d29f0a945 - chan 11" .

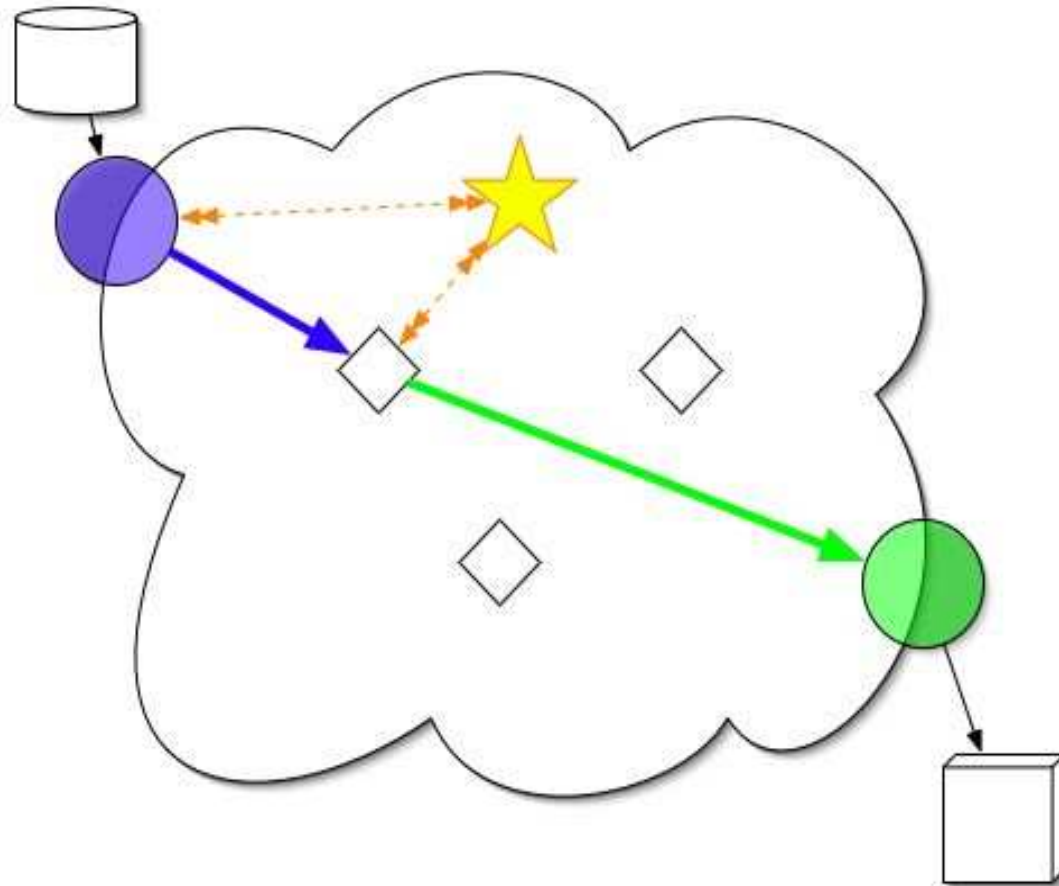
S-expression

```
(6:syslog1:#1:3(1:*3:set(14:date14:Nov 3
14:33:53)(4:host9:localhost)(3:msg49:AirPort: Link UP: 'ic' - 000d29f0a945 -
chan 11)(7:process6:kernel)))
```

UDS model



Inside the cloud



Where are we ?

- Early next week there will be a first implementation running
- We are working on the RDF schema
- Will be operational at the start of next year

Why RDF Schema ?

- All are not created equal

<syslog#3> <date> "Nov 3 14:33:53" .

<syslog#3> <host> "localhost" .

<syslog#3> <process> "kernel" .

<syslog#3> <msg> "AirPort: Link UP: 'ic' - 000d29f0a945 -
chan 11" .

What's left to be done ?

- Tools for event descriptions
- Admin user interface to the router
- Logging/tracking tools
- Reimplementing in ?
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