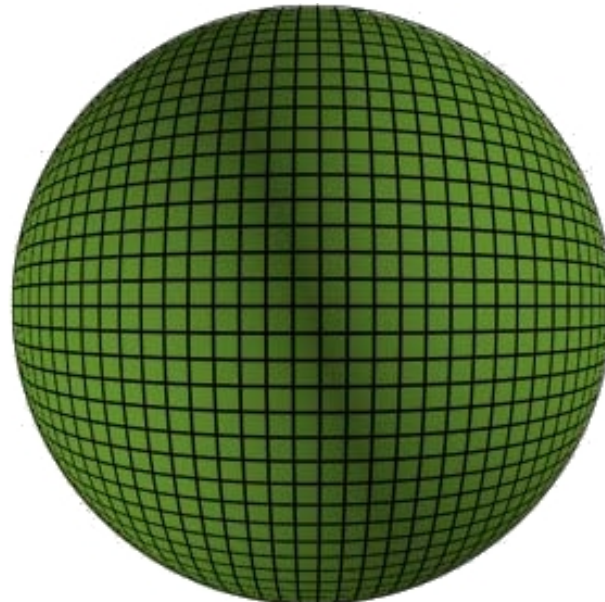


Integracija časovanja

Jabber chat sustav i integriranje u CMS

Ivan Voras
ivoras@gmail.com



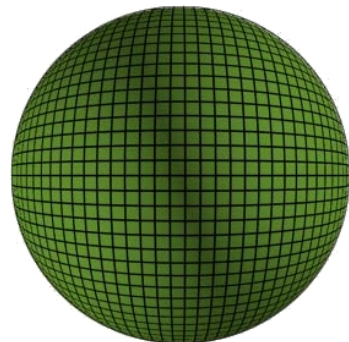
Jabber?

jabber:

v. to talk rapidly, unintelligently, or idly

n. rapid or babbling talk

(ima li Splicana? 🗣)

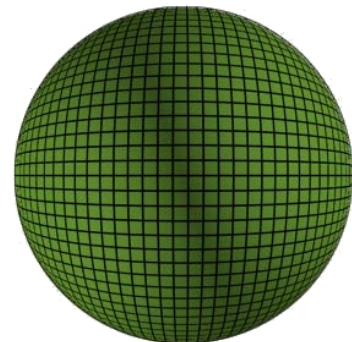


Opet XML!

- Za slučaj da vam XML ne izlazi na uši...
- Službeno: XMPP
 - Ideja: *XML streaming* – šaljemo komadiće (*stanzas*) XML-a preko mreže, sa obje strane
- Extensible Messaging and Presence Protocol

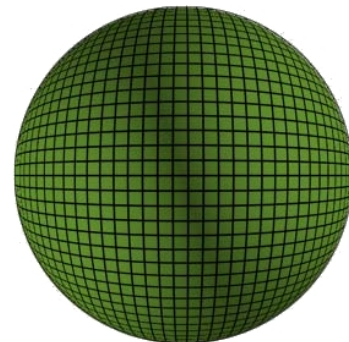
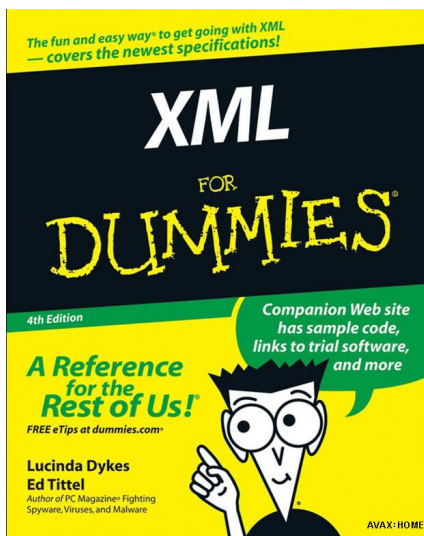
```
<?xml version="1.0"?>
<stream:stream xmlns:stream="http://etherx.jabber.org/streams"
xmlns="jabber:client" to="fer.hr">
<message to="ivoras@fer.hr" >
  <subject>Disk</subject>
  <body>Novi disk je stigao, treba ga ugraditi</body>
</message>
<presence type="unavailable" >
  <status>Na ručku</status>
</presence>
</stream:stream>
```

3



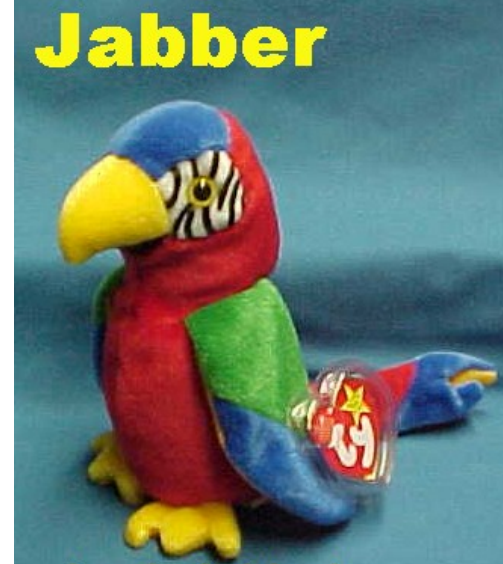
XML

- XML ima jednu dobru stranu: lako ga je implementirati
- Loša strana: postoji veliki broj implementacija koje nemaju podršku za sve mogućnosti koje specifikacija nudi
 - Specifikacija je velika, puno dodataka, *goodies*



Mogućnosti XMPP-a

- Podjela na “domene” (*realms*)
- Povezivanje više servera u jednu mrežu (IRC-like)
- Spremanje i dohvat informacija u vCard formatu
- Konferencije (*chat* sobe sa više korisnika)
- Ostalo (“lude ekstenzije” :))
 - SOAP over XMPP
 - User geolocation
 - Video & Voice ekstenzije
 - (ukupno njih 182)

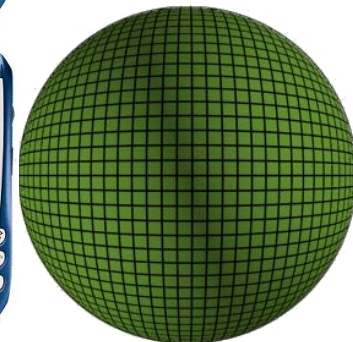


Zašto Jabber

- Zašto bi uopće itko implementirao Jabber?
 - Zapravo: “zašto bi uopće itko implementirao *chat...*”
- Razgovor :)
- Unutar tvrtke – lokalizirano na “poznate ljude”
- Smanjenje troška (nema spajanja na Internet)
- Nadzor nad vlastitim sustavom
 - *****SSI*****
- (interoperabilnost, *future-proof*)
 - (*gateways*)

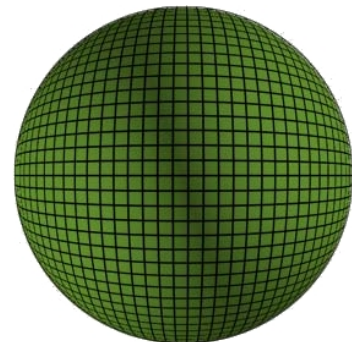


←--
Blackberry
jabber



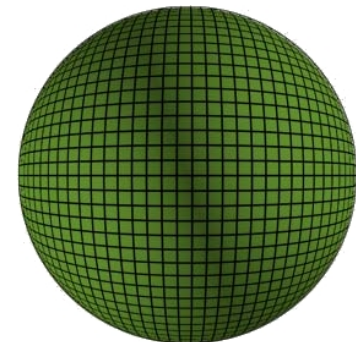
Jabber serveri

- jabberd 1.4
 - originalna implementacija, jednostavan za instalaciju
 - nije skalabilan (GNU pth)
- ejabberd
 - danas vrlo popularna implementacija (erlang nažalost)
- jabberd 2
 - nova “službena” verzija, nove mogućnosti
- WindReach
 - Java, “enterprise” rješenje
- Ima ih i komercijalnih...



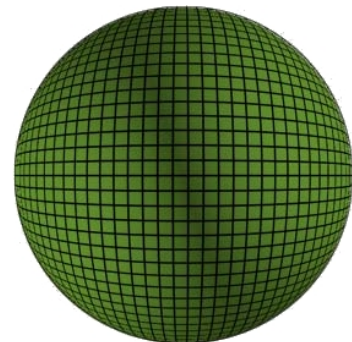
Integracija sa jabberd2

- Vrlo modularan
 - *router, resolver, sm, c2s, s2s*
 - podmoduli se učitavaju iz vanjskih .so biblioteka
 - koristi filesystem, postgresql, mysql, sqlite, LDAP...
- Dva načina
 - Pisanjem “authreg” modula
 - Više mogućnosti, teže :)
 - Koristeći authreg_pipe modula
 - Samo autorizacija, lakše :)



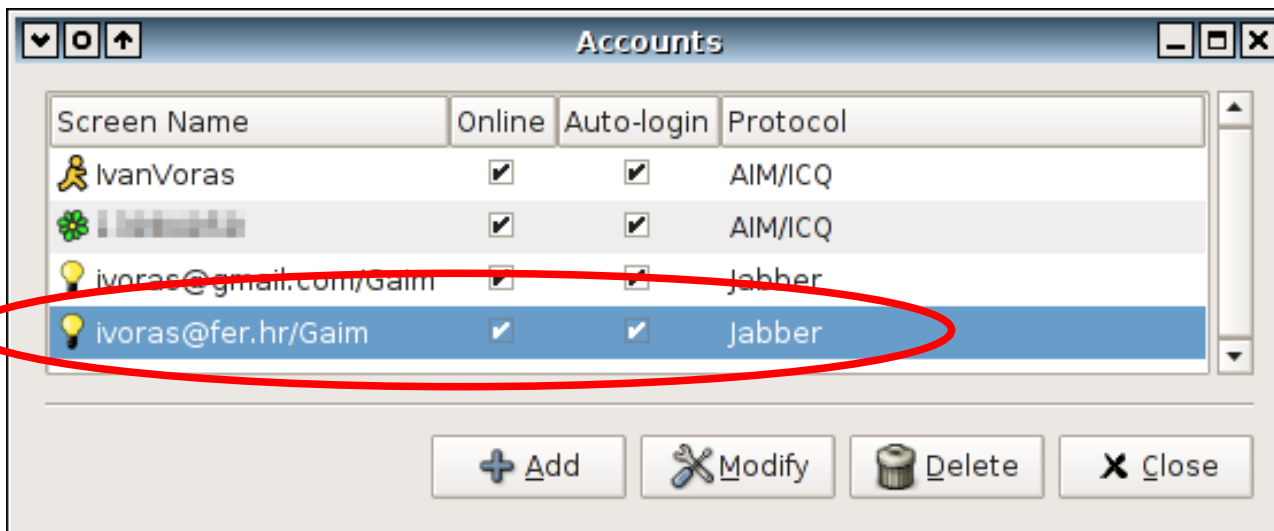
authreg_pipe

- Unix pipe
- Request-response
- Zahtjevi su vezani uz autorizaciju:
 - USER-EXISTS
 - CHECK-PASSWORD
 - SET-PASSWORD
 - ...
- Rezultat je *boolean* OK/NO
 - Nije baš prilagodljivo :(

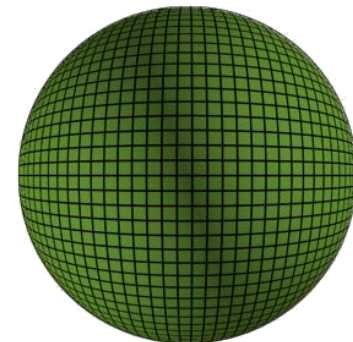


Primjer: Quilt CMS

- Primjer: Quilt CMS na www.fer.hr
- Integracija sa CMS korisničkim računima
- CMS korisnički računi su dalje integrirani sa AD LDAP-om i CARNet AAI-em ...



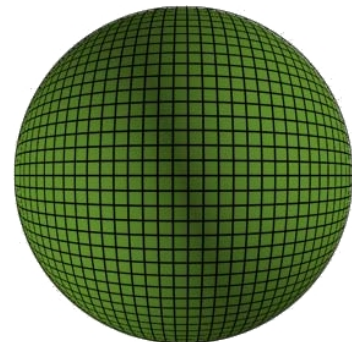
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GAIM



(server name na zahtjev još uvijek :))

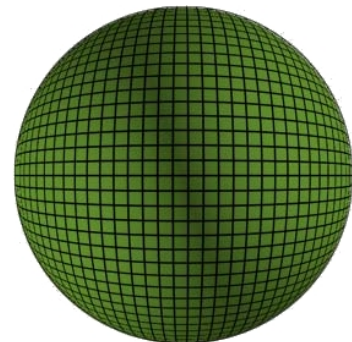
Primjer: Quilt CMS

- authreg_pipe za autentifikaciju
- jabberd2 konfiguriran da koristi PostgreSQL bazu
 - Imamo nadzor nad bazom
- Konfiguriran SSL za svu konverzaciju
- Klijenti:
 - GAIM
 - Trillian Pro
 - Miranda
 - Google talk (uvjetno)



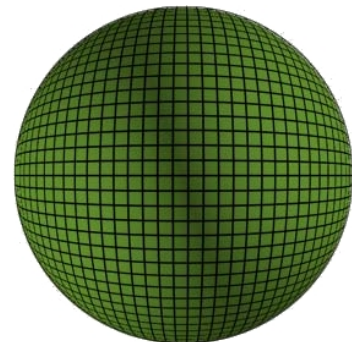
Zašto?

- Poznato okruženje
 - Standardizirana korisnička imena
 - Ako je sa našeg servera, sigurno je naš korisnik/student
 - Nema spama
- e-learning
 - e-konzultacije
 - Slijedeći trik bi trebao biti govorna i video komunikacija
- Još treba proučiti sociološku stranu
 - Stalno prekidanje
 - Da li je bolje od e-maila?



Prvih 50%

- Ovo je bila “serverska” integracija
- Integracija na razini klijenta/browsera (u planu):
 - Ugrađeni klijent (u web sučelje)
 - Java, flash...
 - Chat sobe za predmete i/ili siteove
 - Posjetitelji stranica jednog sitea su u istoj “sobi”
 - “Konferencije”
- “Popup”?
- To be done...



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communication



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