



Asterisk™

The Open Source PBX

Jabber Integration with Asterisk

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What is Jabber and why does it matter?

Jabber (XMPP) is

- A messaging and presence platform as well as supporting extensions.
 - New
 - Open
 - Free
 - Configurable
 - XML based
 - Highly Extensible

Jabber is NOT....

- SIP SIMPLE
 - AIM/MSN/YAHOO!/Skype/ICQ/IRC or your mother's legacy protocol....
 - IAX2 based

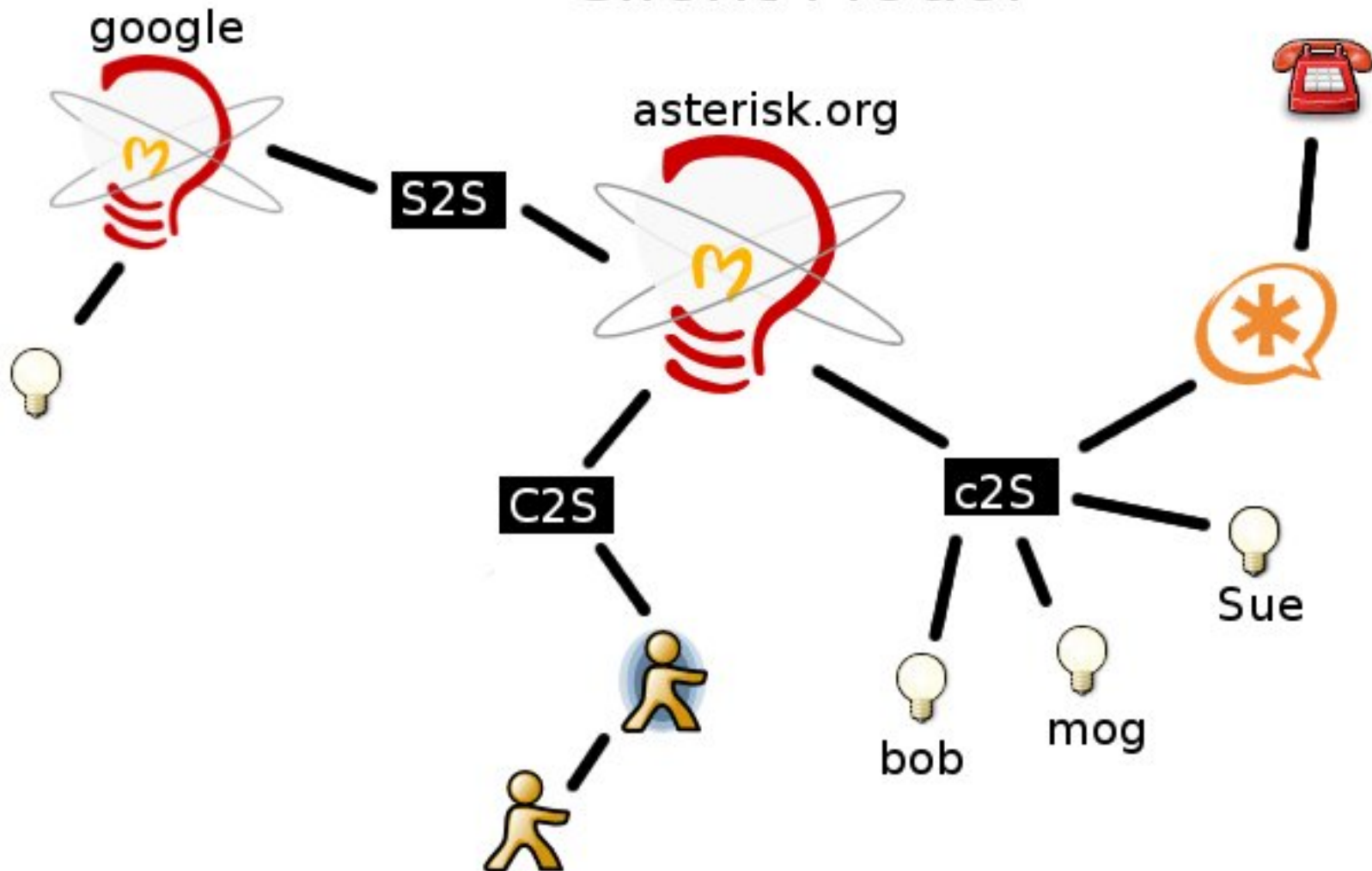
However....

- Legacy gateways
- Resistance is futile...

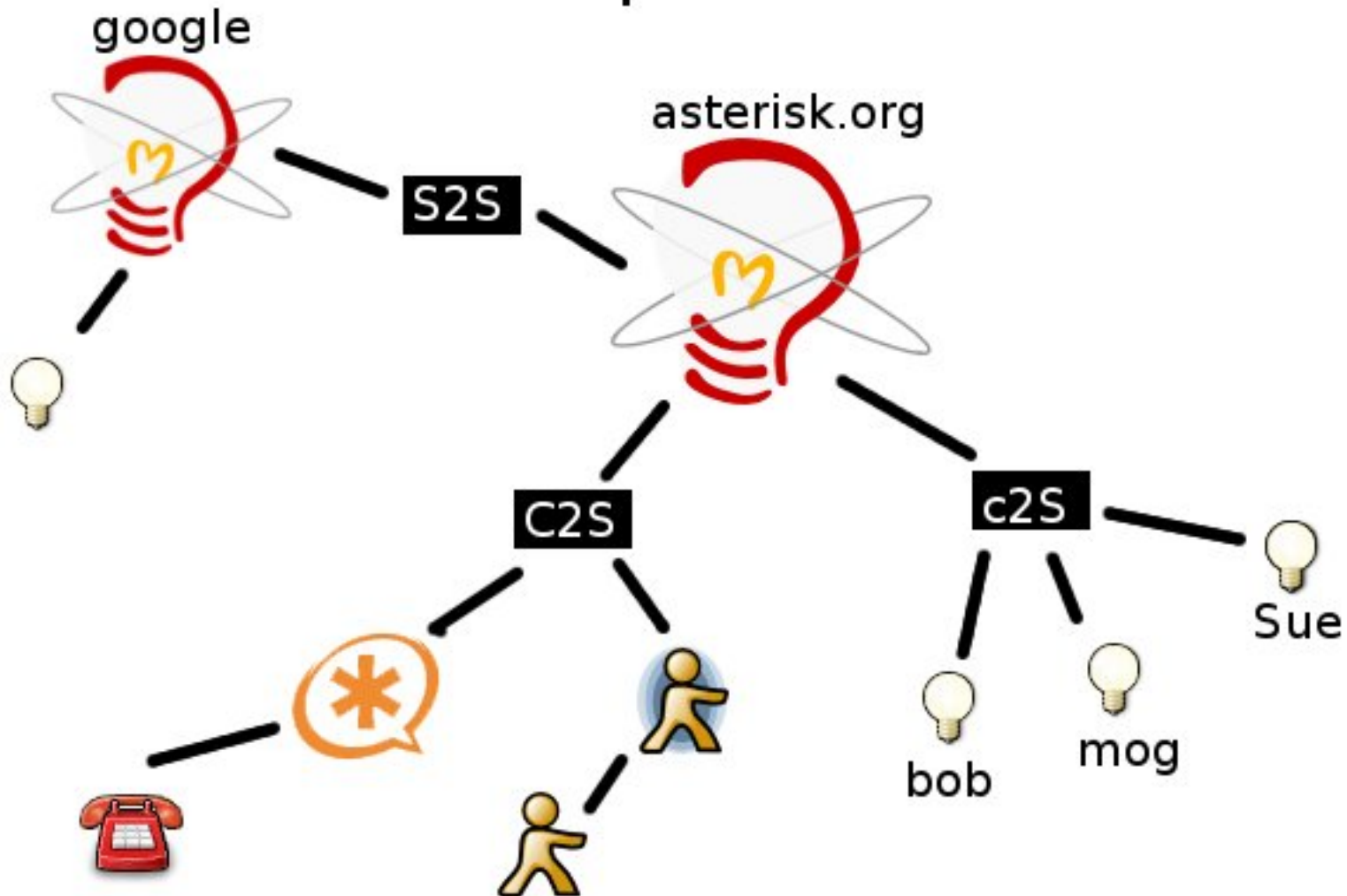
Where are we now?

- **Astjab**
 - res_jabber
 - client/component
 - jabberstatus, jabbersend
 - manager events
- **chan_gtalk**
- **chan_jingle**
- **Asterisk-IM** (jivesoftware.org)
 - notifications, status, origination

Client Model



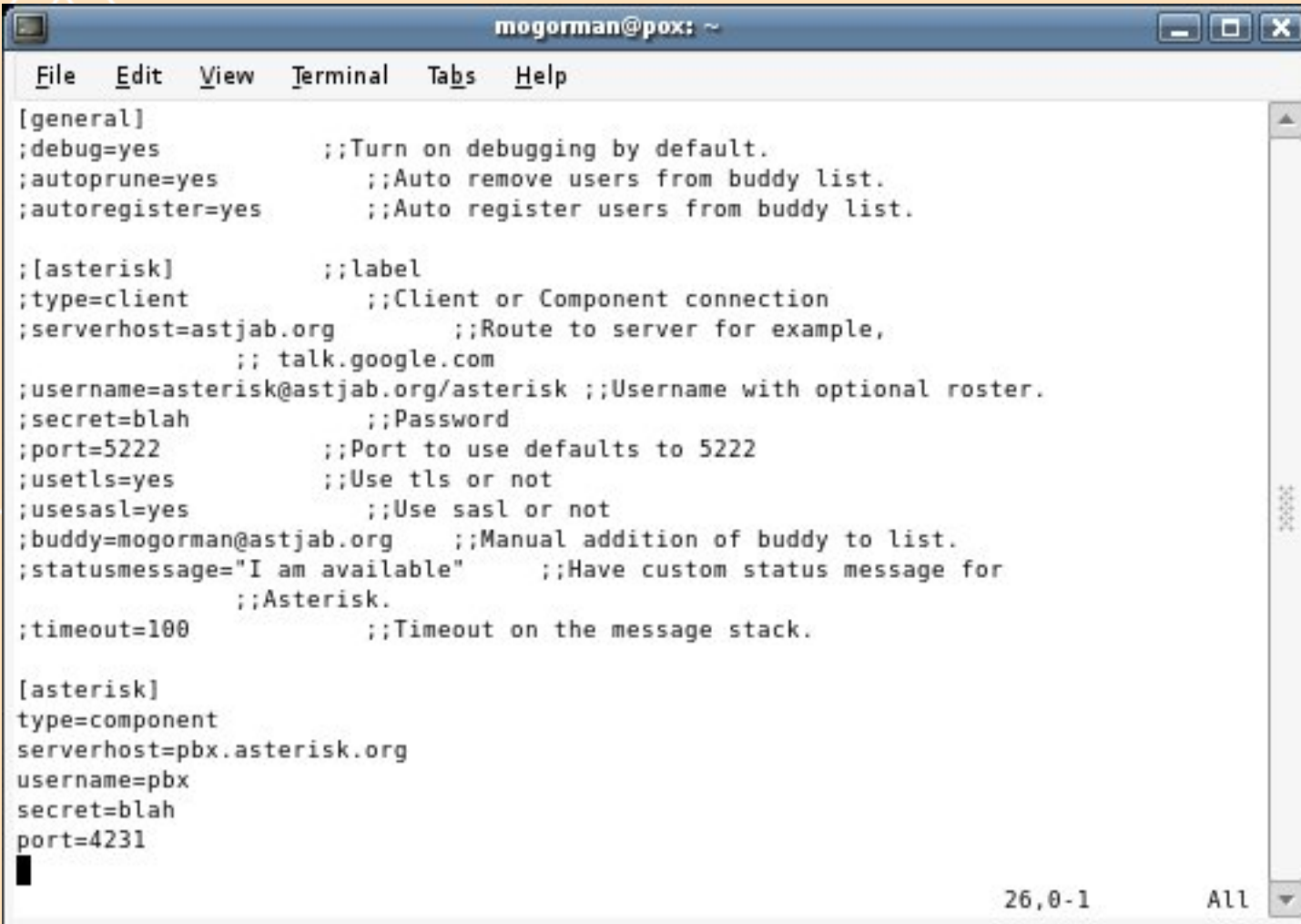
Component Model



Client vs. Component

- Client
 - Easy but limited.
 - Can only answer calls sent to it (fxs)
- Component
 - Unlimited power!!! mwahahaha... well if you have access to the server.
 - Can answer calls for a whole domain (pri)

Configuration



```
mogorman@pox: ~  
File Edit View Terminal Tabs Help  
[general]  
;debug=yes           ;;Turn on debugging by default.  
;autoprune=yes       ;;Auto remove users from buddy list.  
;autoregister=yes    ;;Auto register users from buddy list.  
  
;[asterisk]          ;;label  
;type=client         ;;Client or Component connection  
;serverhost=astjab.org ;;Route to server for example,  
                    ;; talk.google.com  
;username=asterisk@astjab.org/asterisk ;;Username with optional roster.  
;secret=blah         ;;Password  
;port=5222           ;;Port to use defaults to 5222  
;usetls=yes         ;;Use tls or not  
;usesasl=yes        ;;Use sasl or not  
;buddy=mogorman@astjab.org ;;Manual addition of buddy to list.  
;statusmessage="I am available" ;;Have custom status message for  
                    ;;Asterisk.  
;timeout=100        ;;Timeout on the message stack.  
  
[asterisk]  
type=component  
serverhost=pbx.asterisk.org  
username=pbx  
secret=blah  
port=4231  
█  
26,0-1 All
```


Configuration

- exten => 123,1,jabberstatus(asterisk,mogorman@digium.com,STATUS)
- exten => 123,2,gotoif(\$[\${STATUS}] < 6):available,unavailable)
- exten => 123,3(available),jabbersend(asterisk, mogorman@digium.com, “Hi, \$CID(NUM) is calling you!”)
- exten => 123,4,Dial(iax2/mog)
- exten => 123,5(unavailable),voicemail(u123)

Possible Applications

- Popups
- Presence based routing
- Simple skype like routing
- Gateway level routing

Where do we go from
here?

Asterisk 1.6

- Jingle (XEP-166, 167, 176, 177, 180, 181)
- XEP compliance
- Integration
 - Event system
- Text based dialplan applications
 - Gateways
 - IVR like forms
 - Hunt the Wumpus

Questions?

- Email/Jid: mogorman@digium.com

Thank you!



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<http://www.asterisk.org>

<http://www.digium.com>