

wazo.community

AMQP and Stasis message to AMQP support in Asterisk AstriDevCon 2017

Why?

- Remove direct connection to AMI (no parsing)
 - And use AJAM to send actions to AMI
- Scale (auto)
 - https://github.com/sboily/asterisk-consul-module
- Remove external proxy for ARI
 - https://github.com/nvisibleinc/go-ari-proxy
- We already talked about this feature at the last Astridevcon

res_amqp

- AMQP client for Asterisk
 - o Only publish
- Based on patch from https://reviewboard.asterisk.org/r/4365/
- Extracted version to have a first asterisk patch
 - https://github.com/wazo-pbx/wazo-res-amqp
- Base on librabbitmq
 - We only test with rabbitmq
- Configuration is on /etc/asterisk/amqp.conf
- it doesn't nothing, only an AMQP connection
- To install
 - o git clone, make, make install

res_stasis_amqp

- Publish stasis messages to AMQP
 - https://github.com/wazo-pbx/wazo-res-stasis-amqp
- Support
 - stasis AMI
 - stasis ARI
 - stasis channel
- Depends on res_amqp
- Configuration /etc/asterisk/res_stasis_amqp.conf
- To install
 - o git clone, make, make install
- To test on your Asterisk and get messages
 - https://github.com/wazo-pbx/xivo-tools/blob/master/scripts/recv-bus-event
 - Adapt the exchange on the script

Demo

```
root@wazo:/usr/src# ./recv-bus-event -k stasis.ami.8
usage: read RabbitMQ xivo exchange [-h] [-n HOSTNAME] [-p PORT]
                                  [-r ROUTING KEY]
read RabbitMO xivo exchange: error: unrecognized arguments: -k stasis.ami.8
root@wazo:/usr/src# ./recv-bus-event -r stasis.ami.*
2017-10-02 07:34:12.818 [22691] (INFO) (kombu.mixins): Connected to amgp://quest:**@127.0.0.1:5672//
2017-10-02 07:34:23,097 [22691] (INFO) ( main ): Received: {u'Status': u'Registered', u'Username': u'sylvain', u'ChannelType': u'SIP', u'Doma
in': u'172.16.42.86', u'Event': u'Registry'}
2017-10-02 07:34:31,533 [22691] (INFO) ( main ): Received: {u'EventVersion': u'1', u'EventTV': u'31.533-0400', u'Service': u'SIP', u'RemoteAd
dress': u'IPV4/WSS/127.0.0.1/5060', u'Challenge': u'61c55800', u'LocalAddress': u'IPV4/WSS/69.70.94.94/0', u'SessionID': u'0x7f064806b3c8', u'S
everity': u'Informational', u'Event': u'ChallengeSent', u'AccountID': u'xbonl980'}
2017-10-02 07:34:31,628 [22691] (INFO) ( main ): Received: {u'EventVersion': u'1', u'EventTV': u'31.623-0400', u'Service': u'SIP', u'RemoteAd
dress': u'IPV4/WSS/127.0.0.1/5060'. u'LocalAddress': u'IPV4/WSS/69.70.94.94/0'. u'SessionID': u'0x7f064806b3c8'. u'UsingPassword': u'1'. u'Seve
rity': u'Informational', u'Event': u'SuccessfulAuth', u'AccountID': u'xbonl980'}
2017-10-02 07:34:31,629 [22691] (INFO) (__main__): Received: {u'PeerStatus': u'Registered', u'Peer': u'SIP/xbonl980', u'ChannelType': u'SIP', u
'Event': u'PeerStatus', u'Address': u'41255'}
2017-10-02 07:34:31,629 [22691] (INFO) ( main ): Received: {u'Device': u'SIP/xbonl980', u'State': u'NOT INUSE', u'Event': u'DeviceStateChange
2017-10-02 07:34:31,629 [22691] (INFO) ( main ): Received: {u'Status': u'1', u'Paused': u'0', u'Ringinuse': u'1', u'Skills': u'', u'MemberNam
e': u'SIP/xbonl980', u'Penalty': u'0', u'LastPause': u'0', u'Queue': u'test', u'LastCall': u'0', u'Membership': u'static', u'InCall': u'0', u'C
allsTaken': u'0', u'Interface': u'SIP/xbonl980', u'PausedReason': u'', u'Event': u'OueueMemberStatus', u'StateInterface': u'SIP/xbonl980'}
2017-10-02 07:34:31,630 [22691] (INFO) ( main ): Received: {u'Device': u'test avail', u'State': u'NOT INUSE', u'Event': u'DeviceStateChange'}
2017-10-02 07:34:31,702 [22691] (INFO) ( main ): Received: {u'PeerStatus': u'Reachable', u'Peer': u'SIP/xbonl980', u'ChannelType': u'SIP', u'
Event': u'PeerStatus'}
```

Integration in Asterisk

- Proposal
 - o submit to gerrit the res-amqp support
 - submit to gerrit the res-stasis-amqp support
- Roadmap
 - Functional test
 - o CEL?
 - o CDR?
 - Your feedback is welcome!

Question?

Thank you for listening!

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