

PRISTOPI K REŠEVANJU NEŽELENE ELEKTRONSKE POŠTE

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naročena sporočila

posredovana sporočila

samodejna sporočila

obvestila o napakah

niso spam

2010

2011

2012

2013

89%

75%

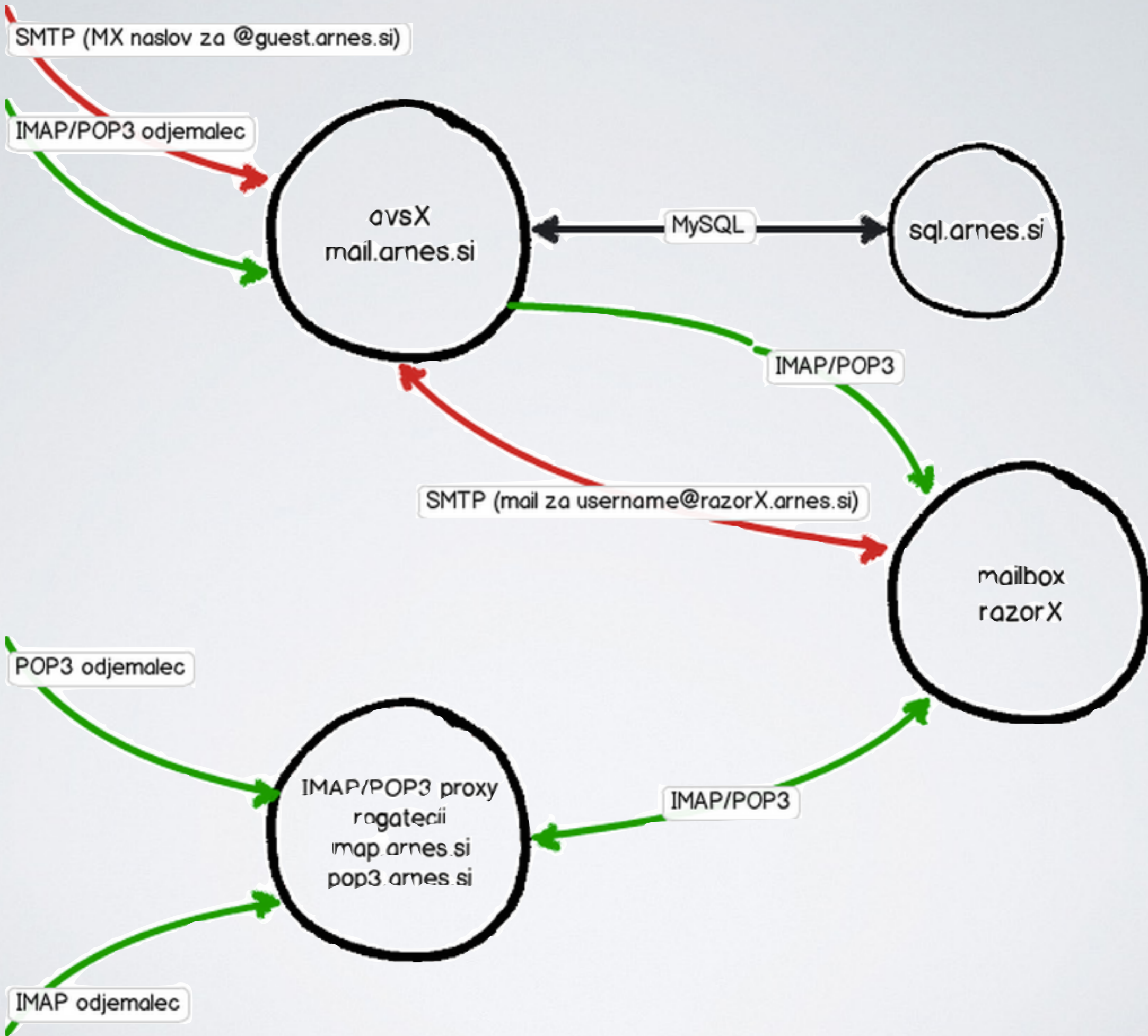
69%

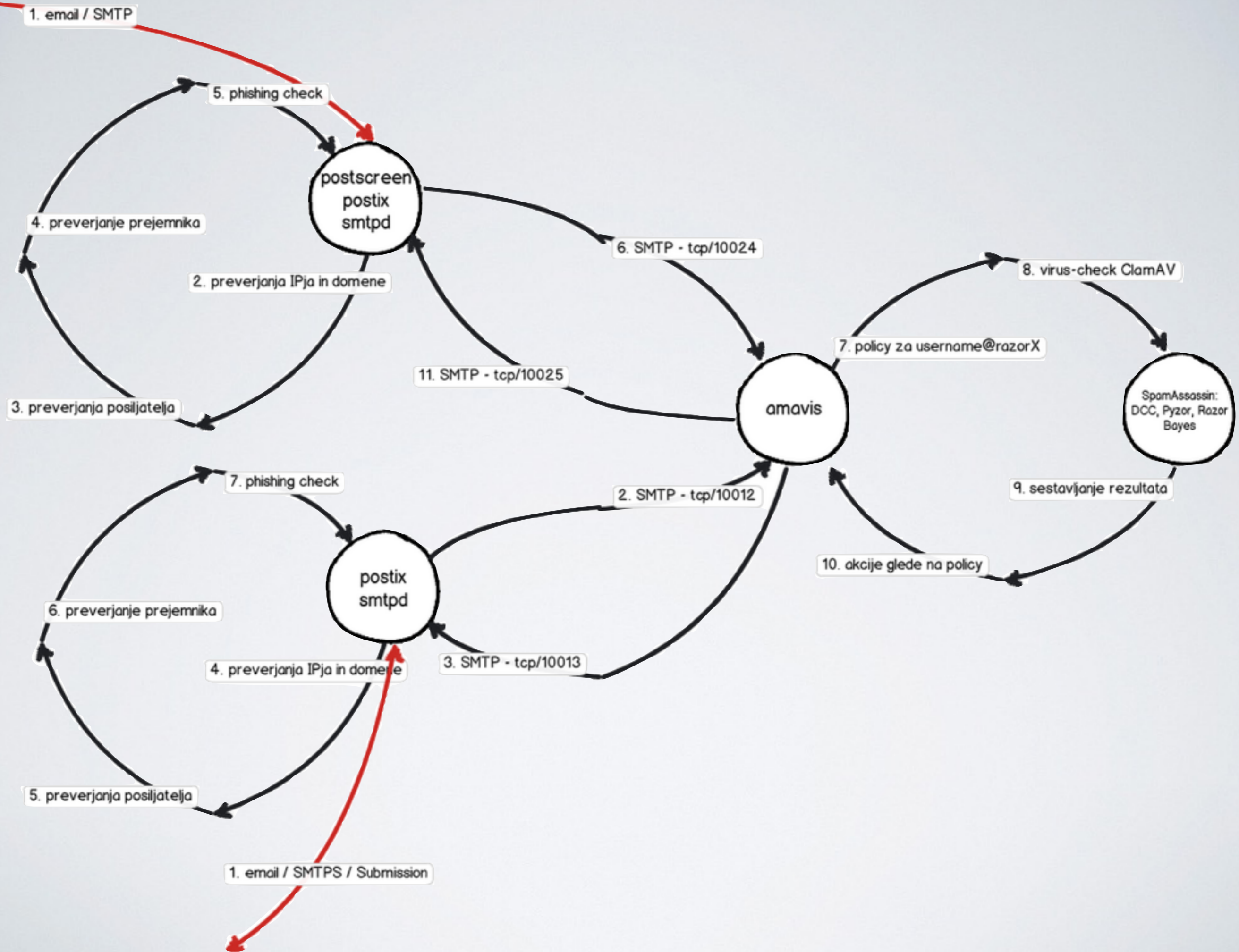
66%

2014









SMTP SERVER

- Postfix 2.11
 - postscreen

```
Mar 31 02:21:29 avs1 postfix/postscreen[10347]: PREGREET 22  
after 0.25 from [153.122.53.218]:55939: HELO www.tolstli.com\r\n
```

- RBL:
 - zen.spamhaus.org
 - swl.spamhaus.org
 - Invalument
- Anti-phishing reply list - <http://aper.sf.net>

POLICY SERVER

- postfwd2 - 1.3.5
 - hapolicy
- preverjanje v END-OF-DATA fazi prejema
- quota/rate-limiting
 - per user (sasl username)
 - per IP
- različne nastavitve ponoči in podnevi, čez vikend in ob delavnikih

POLICY SERVER

```
# rate limit to 250 recipients during weekends
id=RATE_WEBMAIL_WEEKEND
    &&WEBMAIL
    days=Sat-Sun
    action=rcpt(sender/250/3600/450 4.7.1 sorry, max
250 recipients per hour)

# rate authenticated senders to 500 recipients per hour
id=RATE_SASL_AUTHENTICATED_HOUR
    !!&&SASL_IZJEME
    sasl_username=~/^(\S+)$/
    action=rcpt(sasl_username/1000/3600/450 4.7.1
sorry, max 1000 recipients per hour for $$sasl_username)
```

AMAVISD-NEW

Hvala Mark!

AMAVISD-NEW

- Verzija 2.9.1
- SpamAssassin 3.4 - SVN
- MySQL
 - nastavitve glede označevanja virusov, spama, datotek, ...
 - karantena zavrnjenih in izbranih emailov - 7 dni
- Redis:
 - Bayes, penpals, IP reputation
 - logging

AMAVISD-NEW

- DKIM
 - podpisovanje Arnesovih domen (@guest.arnes.si, @arnes.si, @cert.si, ...)
- Dodatki:
 - DCC - dcc1.arnes.si, Pyzor, Razor
 - ClamAV (+ SaneSecurity signatures + Si.Postmaster rules)
 - CRM114
 - p0f - passive OS fingerprinting

MAILBOX SERVER

- Dovecot - v. 2.2.16
- Linux CentOS7
- LDAP backend
- MDBOX
- CLucene IMAP search index
- Configuration management: Puppet

ANALITIKA

- postfix-logreport
- amavis-logreport
- logstash
- elasticsearch
- splunk
- kibana
- grafana

BCP

- Nadzor svojih uporabnikov:
 - GeolP > 3
 - quota
 - FBL velikih ponudnikov
- Podpisovanje:
 - DKIM, SPF(forward?), DMARC
 - Pregledovanje odhajajoče pošte