SLUUG October 2019
Short Topics: logrotate; Caching DNS servers
About Me

I work as an independent consultant performing system and small network administration, and writing specialized technical documentation.

I have recently used logrotate on ‘my own’ logfiles; I have set up unbound and dnsmasq for a customer.
Outline

logrotate (Debian style)

Caching DNS servers
logrotate – config files

/etc/logrotate.conf

/etc/logrotate.d
logrotate – example

/etc/logrotate.d/exim4-base

/var/log/exim4/mainlog /var/log/exim4/rejectlog {
    daily
    missingok
    rotate 10
    compress
    delaycompress
    notifempty
    create 640 Debian-exim adm
}

logrotate and dnsmasq, SLUUG; Ken Johnson (contact-point@pobox.com)
logrotate – custom

echo $(date) $(ls -l /tmp/daily/xyzzy.gz) \ 
  >>/var/log/xyzzy.log

Wed Oct 16 ... -rw-r--r-- 1 root root 36516748
  Oct 16 00:21 /tmp/daily/xyzzy.gz

Thu Oct 17 ... -rw-r--r-- 1 root root 41198434
  Oct 17 00:21 /tmp/daily/xyzzy.gz
logrotate – custom

/etc/logrotate.d/xyzzy

/var/log/xyzzy.log {
    monthly
    missingok
    rotate 12
    compress
    delaycompress
    notifempty
}

logrotate and dnsmasq, SLUUG; Ken Johnson (contact-point@pobox.com)
Questions?
dnsmasq and unbound

DNS refresher

Internal DNS server functions

DNS software options

Some dnsmasq and unbound specifics
DNS refresher

Authoritative servers (not our topic tonight!)

Caching Recursive servers
DNS refresher

- client
- caching server
- \text{(root)}
- .com
- example.com
- us.example.com
- www.us.example.com

logrotate and dnsmasq, SLUUG; Ken Johnson (contact-point@pobox.com)
Internal DNS server functions

‘Split Horizon’ (NAT Router work-arounds)

DHCP integration

Small mail server support

Filtering

Speed
DNS caching resolvers

bind
dnsmasq
unbound
PowerDNS
MaraDNS - Deadwood
A book...

Alternative DNS Servers

Jan-Piet Mens

UIT Cambridge, Ltd.

2009
DNS caching resolvers

dnsmasq is very flexible, and has DHCP integration.

unbound is very easy to configure as a caching server.
A Combined Configuration

/etc/resolv.conf points to dnsmasq

dnsmasq points to unbound

unbound talks to the world
hosts file for dnsmasq

10.10.10.16 svn.example.com
10.10.10.16 mail.example.com
10.10.10.16 redmine.example.com
127.0.0.1 vortex-win.data.microsoft.com
127.0.0.1 settings-win.data.microsoft.com
Some config for dnsmasq

# If you don't want dnsmasq to read /etc/resolv.conf
no-resolv

server=127.0.0.1#10053  # unbound

## let 10.30.30.10 resolve mv local.example.com
server=/local.example.com/10.30.30.10
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