

# 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 – custom

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

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

```
Thu Oct 17 ... -rw-r--r-- 1 root root 41198434  
Oct 17 00:21 /tmp/daily/xyzzzy.gz
```

# logrotate – custom

```
/etc/logrotate.d/xyzzzy
```

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

# 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



# 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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