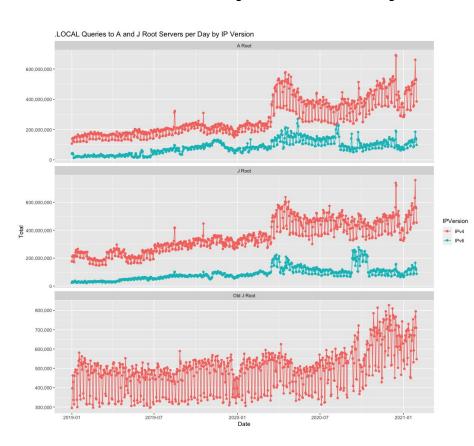
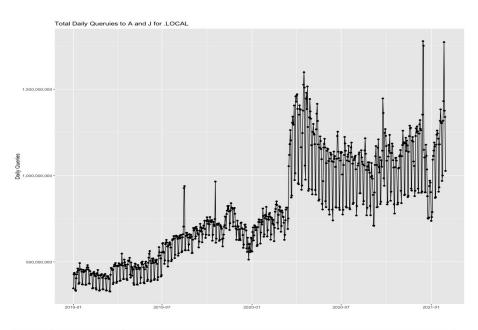
# Name Collision Analysis .LOCAL

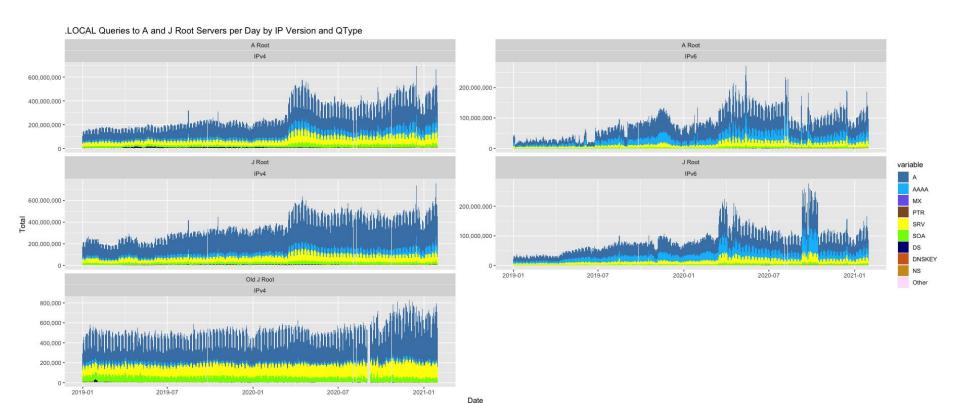
# .LOCAL Analysis :: Daily Query Volume



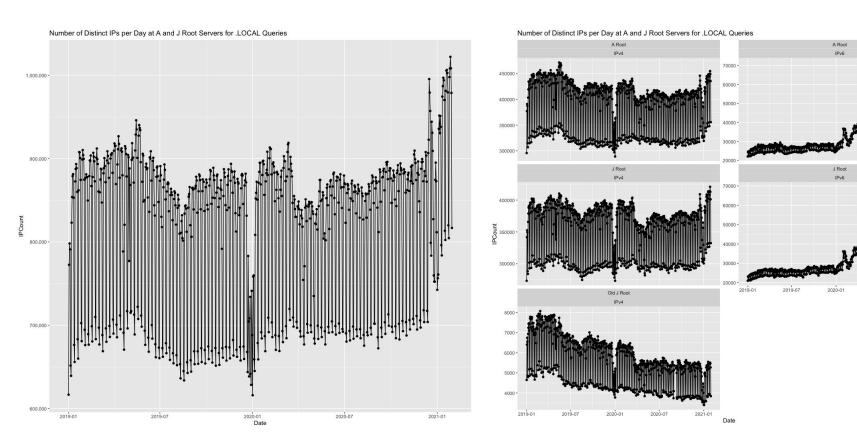


Date	Authors	Description of Proposal	Status
Feb 2013	S. Cheshire and M. Krochmal	Reserve .local for multicast DNS use	Published as RFC6762 <sup>47</sup>

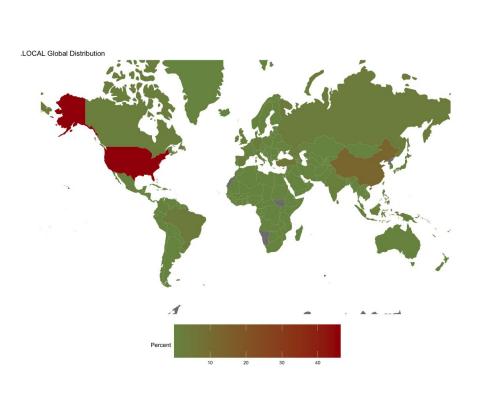
#### .LOCAL Analysis :: Qtype Distribution

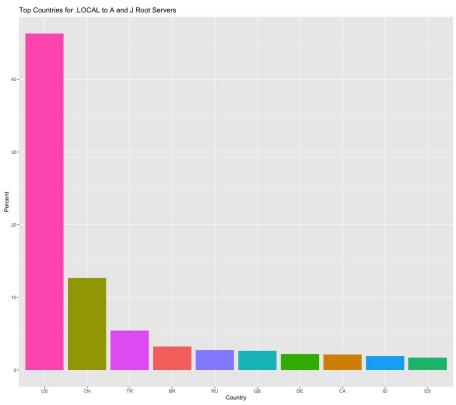


# .LOCAL Analysis :: Unique Daily Source IPs

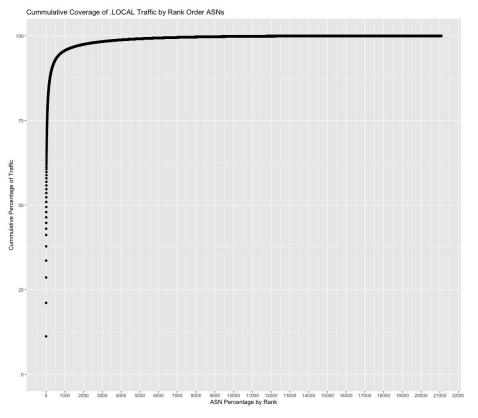


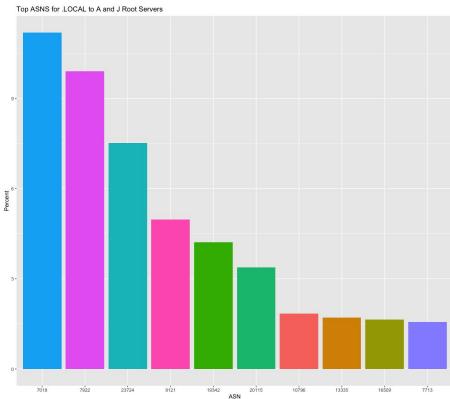
# .LOCAL Analysis :: Geographical Distribution



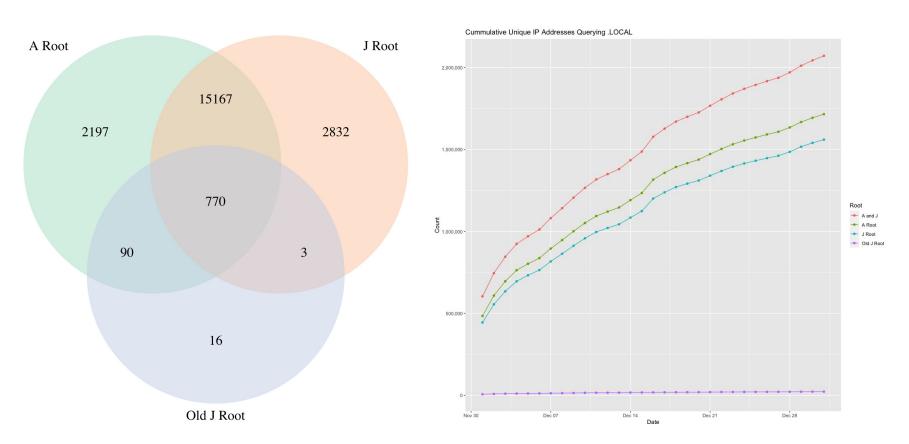


# .LOCAL Analysis :: ASN Distribution

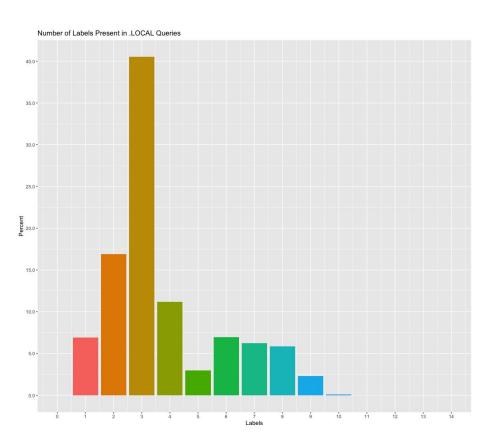




# .LOCAL Analysis :: Root ASN Overlap and IP growth



### .LOCAL Analysis :: Label Analysis



```
Third abel
                                                              Percent
              SLD
                    Percent
         cluster 5.21249852
1:
                                              svc.cluster 3.51330249
 2:
             _tcp 1.49889226
                                              com.cluster 1.64049344
 3:
         rsyslogd 1.33485913
                                     3:
                                                .rsyslogd 1.33485913
 4:
              com 0.91223693
                                     4:
                                                _ipp._tcp 0.91939797
 5:
            corp 0.59915487
                                     5:
                                               _ipps._tcp 0.49808035
 6:
               _ 0.59818977
                                     6:
                                             .constructif 0.22731603
 7:
         navigon 0.58851840
                                     7:
                                                ad.usfood 0.19233000
 8:
            demo 0.34343977
                                         com.meuintelbras 0.15422826
 9:
           group 0.25521015
                                    9:
                                                .retracker 0.11704026
     meuintelbras 0.24681727
11:
      constructif 0.22731762
                                   10:
                                            onelondon.tfl 0.08225368
12:
           usfood 0.19251837
                                   11:
                                            americas.ppdi 0.08144675
13:
           mcint 0.18398142
                                   12:
                                                  ld.corp 0.06288812
14:
             net 0.18000130
                                   13:
                                                 uk.aroup 0.06220033
15:
            ppdi 0.17633557
                                   14:
                                              asia1.group 0.05934020
16:
            root 0.15693040
                                   15:
                                              europe.ppdi 0.05106923
17:
           domain 0.15608579
                                   16:
                                           areal.eurofins 0.05032565
18:
       retracker 0.11704026
                                   17:
                                           googleapis.com 0.04940997
19:
              ad 0.11596449
                                   18:
                                                     .wpad 0.04735098
   hikvisionwifi 0.09515900
21:
                                   19:
                                               google.com 0.04543337
        eurofins 0.09451535
22:
            lord 0.09421412
                                    20:
                                                com.group 0.04444318
         fujitsu 0.09260529
23:
                                    21:
                                             com.jltbrnet 0.04383821
24:
              tfl 0.09206417
                                   22:
                                            prant.praintl 0.04310520
25:
         experian 0.09123802
                                    23:
                                              _msdcs.corp 0.04241632
26:
     samsungdemo 0.08891397
                                    24:
                                                  lat.tyc 0.04116376
27:
           pregis 0.08764093
                                   25:
                                            msdcs.domain 0.03913942
28:
              tes 0.07830863
                                   26:
                                                 kt.group 0.03877845
   hidalaocounty 0.07609835
                                    27:
                                              tiktokv.com 0.03711911
30:
           kriton 0.07327312
                                    28:
                                              us.experian 0.03687628
             SLD
                    Percent
> sum(x$Percent)
                                    29:
                                                      .ntp 0.03675101
[1] 14.06002
                                    30: com.hikvisionwifi 0.03673716
```

#### Data Attributes When Evaluating Collision Strings

#### **Traffic Properties:**

- Network diversity
  - Number of unique ASNs, /24s, etc.
  - Distribution of traffic (e.g. heavily weighted in a few ASNs)
- Geographical diversity
- Qtype distribution
- Query volume
- Longitudinal trends

#### **Qname and Labels:**

- Distinct SLDs
  - Distribution of traffic over SLDs
- Amount of "noise" (e.g. Chromium)
- SLDs appear to be delegated TLDs
- First label features
  - O DNS-SD
  - Common protocols
- Qname Minimization effect

#### Other Attributes:

- The string's context
- OSINT of string being used
- Data sensitivity and catchment of data collector