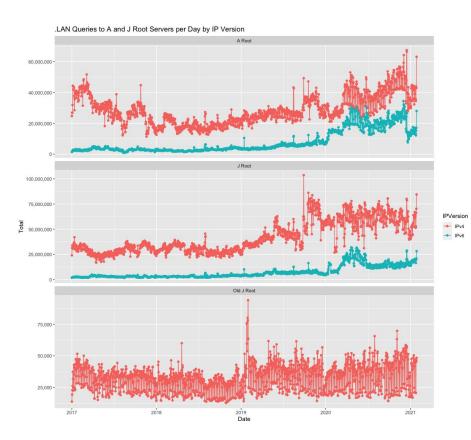
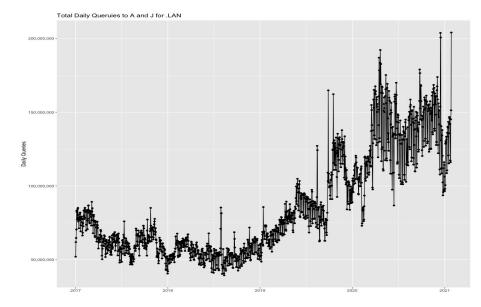
# Name Collision Analysis .LAN

#### .LAN Analysis :: Daily Query Volume

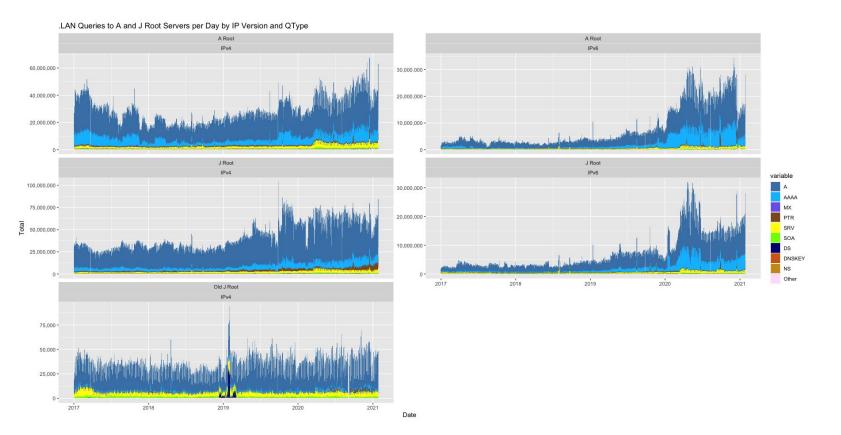




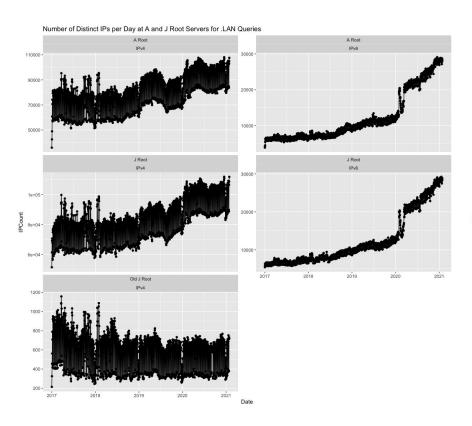
#### OpenWRT 19.07

- No default hostname
- Default private-use TLD of '.lan'30
- Default blocking of names in the IANA Special-Use Domain Names Registry<sup>31</sup>

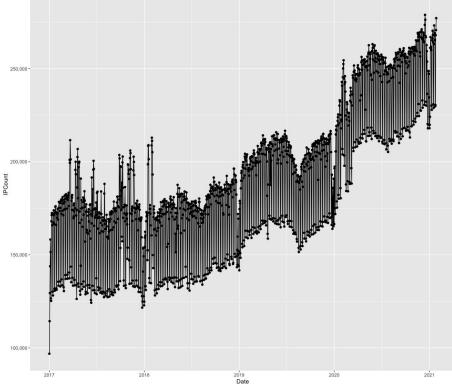
#### .LAN Analysis :: Qtype Distribution



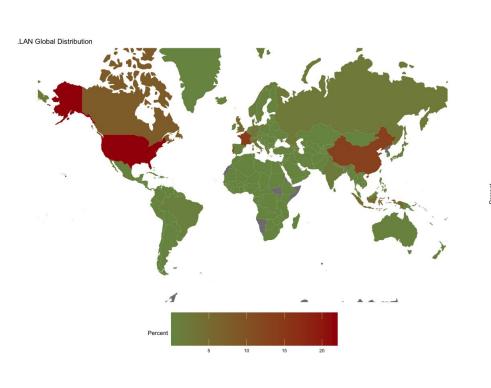
### .LAN Analysis :: Unique Daily Source IPs



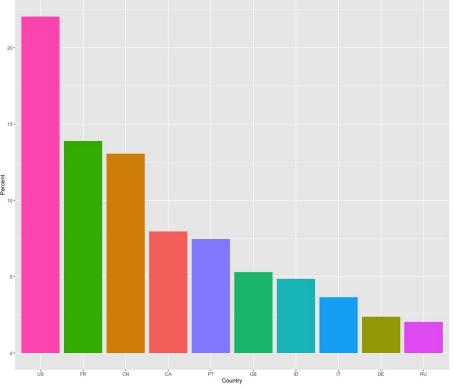
Number of Distinct IPs per Day at A and J Root Servers for .LAN Queries



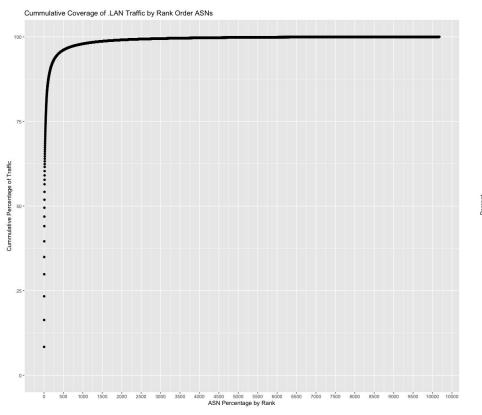
#### .LAN Analysis :: Geographical Distribution



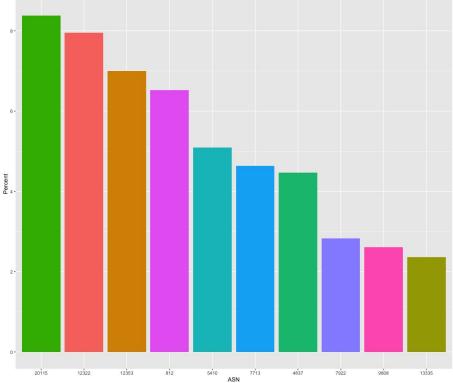
Top Countries for .LAN to A and J Root Servers



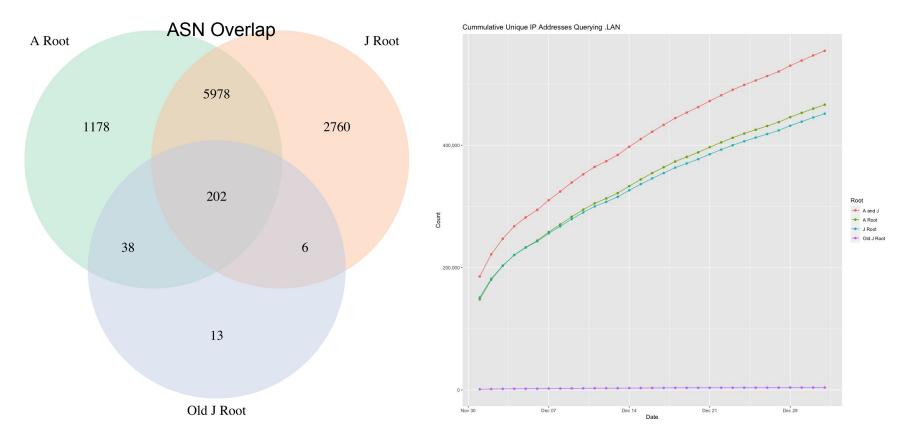
### .LAN Analysis :: ASN Distribution



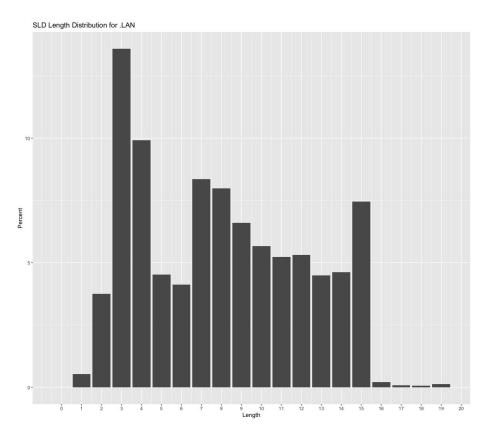
Top ASNS for .LAN to A and J Root Servers



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



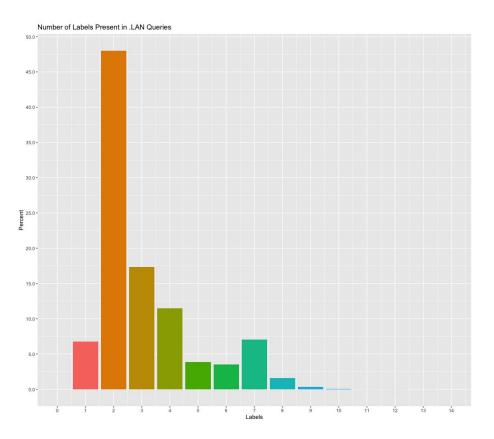
#### .LAN Analysis :: SLD Overlap Analysis



.LAN Names for 12/31/2020

- Unique Qnames: 46,117,456
- Unique SLDs: 37,440,698

#### .LAN Analysis :: SLD Analysis



|     | SLD          | Percent    |     | ThirdLabel       | Percent    |
|-----|--------------|------------|-----|------------------|------------|
| 1:  | com          | 7.12973991 | 1:  | in-addr.arpa     | 5.15606803 |
| 2:  | arpa         | 5.18317203 | Z:  |                  | 0.75620481 |
| 3:  | net          | 0.84312410 | 3:  | qq.com           | 0.47754414 |
| 4:  | wpad         | 0.75697182 | 4:  | avl01.avlcorp    | 0.31909082 |
| 5:  | cn           | 0.63376531 | 5:  | _dns-sdudp       | 0.31551641 |
| 6:  | _tcp         | 0.46920957 | 6:  | ww.hl            | 0.30687549 |
| 7:  | -            | 0.41307506 | 7:  | google.com       | 0.25032900 |
| 8:  | hl           | 0.38232998 | 8:  | com.cn           | 0.24325432 |
| 9:  | local        | 0.37466281 | 9:  | googleapis.com   | 0.24286857 |
| 10: | avlcorp      | 0.37420665 | 10: | facebook.com     | 0.19768126 |
| 11: | org          | 0.35474061 | 11: | corp.zodiac      | 0.15541521 |
| 12: | _udp         | 0.33067472 | 12: | .isatap          | 0.15135092 |
| 13: |              | 0.30296325 | 13: | snssdk.com       | 0.14456837 |
| 14: |              | 0.29140558 | 14: | hicloud.com      | 0.14448897 |
| 15: |              | 0.22288120 | 15: | tiktokcdn.com    | 0.14359312 |
| 16: |              | 0.22274337 | 16: | ntp.org          | 0.13207514 |
| 17: |              | 0.19536148 | 17: | baidu.com        | 0.13203020 |
| 18: |              | 0.19518921 | 18: | vgeu.vhgroup     | 0.13126917 |
| 19: |              | 0.17299217 | 19: | tiktokv.com      | 0.12444467 |
| 20: |              | 0.15135092 | 20: | vaillant.vhgroup | 0.12275184 |
| 21: |              | 0.13618587 | 21: | _msdcs.workgroup | 0.10863245 |
| 22: |              | 0.11708910 | 22: | ksmobile.com     | 0.10593366 |
| 23: |              | 0.11662245 | 23: | fbcdn.net        | 0.09152888 |
| 24: |              | 0.11101439 | 24: | yximgs.com       | 0.09115886 |
| 25: |              | 0.10818003 | 25: | corp.alliance    | 0.07994349 |
| 26: |              | 0.10498463 | 26: | amemv.com        | 0.07836976 |
| 27: |              | 0.09072142 | 27: | _aaplcache3tcp   | 0.07742597 |
| 28: |              | 0.08977388 | 28: | _aaplcachetcp    | 0.07724320 |
| 29: |              | 0.08697547 | 29: | _aaplcache1tcp   | 0.07712785 |
| 30: |              | 0.08560098 | 30: | _aaplcache2tcp   | 0.07681325 |
|     | SLD          | Percent    |     | ThirdLabel       | Percent    |
|     | um(x\$Percer | nt)        |     |                  |            |
| [1] | 20.04771     |            |     |                  |            |

## .LAN Analysis :: Label Analysis .HOME

| Column1           | - | Column2 💌 |
|-------------------|---|-----------|
| lan               |   | 9071680   |
| _ldap             |   | 7016308   |
| wpad              |   | 4442042   |
| _kerberos         |   | 850354    |
| msoid             | _ | 752678    |
| _                 |   | 655521    |
| www               |   | 470657    |
| isatap            |   | 355617    |
| tracker           |   | 326938    |
| api               |   | 311709    |
| lb                |   | 298665    |
| _tcp              |   | 277524    |
|                   | 1 | 251172    |
| _msdcs            |   | 225903    |
| _gc               |   | 160900    |
| dc                |   | 152028    |
| _sites            |   | 116483    |
| _aaplcache3       |   | 111750    |
| _aaplcache        |   | 111421    |
| _aaplcache1       |   | 111266    |
| _aaplcache2       | _ | 110761    |
| _aaplcache4       |   | 110480    |
| _vlmcs            |   | 109290    |
| b                 |   | 105420    |
|                   | 2 | 100823    |
|                   | 3 | 97680     |
| connectivitycheck |   | 95719     |
| db                |   | 94965     |
| server-test       |   | 91574     |
| android           |   | 90751     |

|      | SLD               | Percent    |
|------|-------------------|------------|
| 1:   | hitronhub.home.   | 9.75412714 |
| 2:   | com.home.         | 6.61782804 |
| 3:   | home.             | 3.03802436 |
| 4:   | home.             | 2.68200505 |
| 5:   | net.home.         | 1.19227441 |
| 6:   | ht.home.          | 0.57062557 |
| 7:   | fios-router.home. | 0.52528746 |
| 8:   | _tcp.home.        | 0.30401179 |
| 9:   | wpad.home.        | 0.29160084 |
| 10:  | org.home.         | 0.28520555 |
| 11:  | cn.home.          | 0.26442140 |
| 12:  | _udp.home.        | 0.23789951 |
| 13:  | ch.home.          | 0.21296067 |
| 14:  | ru.home.          | 0.19720468 |
| 15:  | arpa.home.        | 0.08625248 |
| 16:  | io.home.          | 0.08591727 |
| 17:  | tv.home.          | 0.08381899 |
| 18:  | isatap.home.      | 0.07388558 |
| 19:  | me.home.          | 0.06444656 |
| 20:  | biz.home.         | 0.05839011 |
| 21:  | unifi.home.       | 0.05735203 |
| 22:  | workgroup.home.   | 0.05627388 |
| 23:  | in.home.          | 0.05361050 |
| 24:  | home.home.        | 0.05328508 |
| 25:  | info.home.        | 0.04995074 |
| 26:  | uk.home.          | 0.04905044 |
| 27:  | co.home.          | 0.04637510 |
| 28:  | xyz.home.         | 0.04604986 |
| 29:  | jpg.home.         | 0.03915547 |
| 30:  | local.home.       | 0.03533617 |
|      | SLD               | Percent    |
| > si | um(x\$Percent)    | · ·        |

[1] 27.11263

#### .LAN

|     | SLD                      | Percent    |
|-----|--------------------------|------------|
| 1:  | com                      | 7.12973991 |
| 2:  | arpa                     | 5.18317203 |
| 3:  | net                      | 0.84312410 |
| 4:  | wpad                     | 0.75697182 |
| 5:  | cn                       | 0.63376531 |
| 6:  | _tcp                     | 0.46920957 |
| 7:  |                          | 0.41307506 |
| 8:  | hl                       | 0.38232998 |
| 9:  | local                    | 0.37466281 |
| 10: | avlcorp                  | 0.37420665 |
| 11: | org                      | 0.35474061 |
| 12: | _udp                     | 0.33067472 |
| 13: | basis                    | 0.30296325 |
| 14: | vhgroup                  | 0.29140558 |
| 15: | asm                      | 0.22288120 |
| 16: | zodiac                   | 0.22274337 |
| 17: | sercol                   | 0.19536148 |
| 18: | alliance                 | 0.19518921 |
| 19: | zebra                    | 0.17299217 |
| 20: | isatap                   | 0.15135092 |
| 21: | c3connect                | 0.13618587 |
| 22: | workgroup                | 0.11708910 |
| 23: | lan                      | 0.11662245 |
| 24: | corp                     | 0.11101439 |
| 25: | tsi                      | 0.10818003 |
| 26: | lixil                    | 0.10498463 |
| 27: | emergent                 | 0.09072142 |
| 28: | galaxy                   | 0.08977388 |
| 29: | enivest                  | 0.08697547 |
| 30: | mobily                   | 0.08560098 |
|     | SLD                      | Percent    |
|     |                          |            |
|     | um(x\$Percer<br>20.04771 | nt)        |