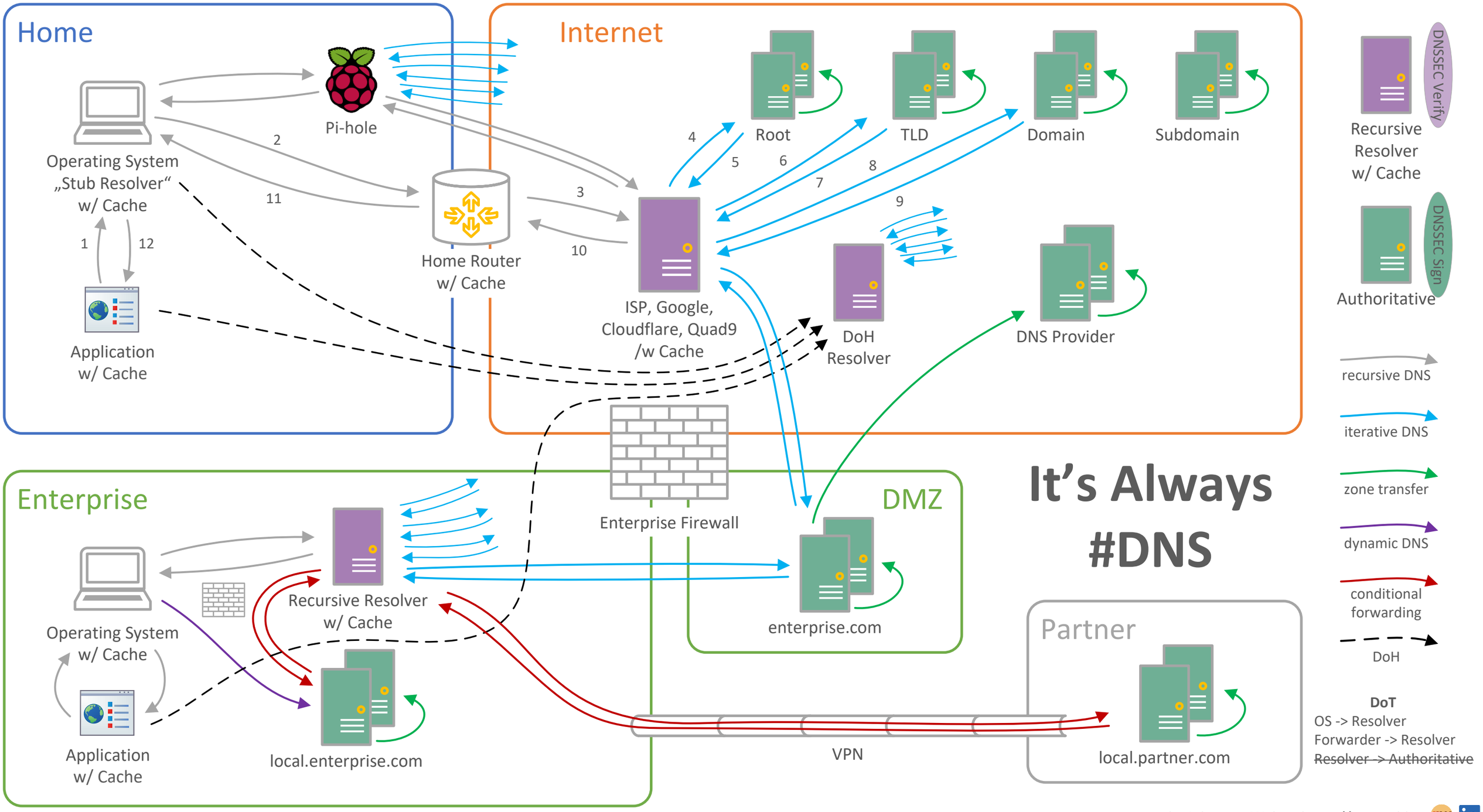
Home
Internet
Pi-hole
Operating System
„Stub Resolver“
w/ Cache
Application
w/ Cache
Home Router
w/ Cache
ISP, Google,
Cloudflare, Quad9
/w Cache
Root
TLD
Domain
Subdomain
DoH
Resolver
DNS Provider
1
2
3
4
5
6
7
8
9
10
11
12
Recursive
Resolver
w/ Cache
DNSSEC Verify
Authoritative
DNSSEC Sign
recursive DNS
iterative DNS
zone transfer
dynamic DNS
conditional
forwarding
DoH
DoT
OS -> Resolver
Forwarder -> Resolver
~~Resolver -> Authoritative~~
Enterprise
Enterprise Firewall
DMZ
Operating System
w/ Cache
Application
w/ Cache
Recursive Resolver
w/ Cache
local.enterprise.com
enterprise.com
VPN
Partner
local.partner.com
It’s Always
#DNS
by Johannes Weber, https://netsec.blog