Digital Life @ Workplace and Home



Transactions, Email, Websites, Social and Mobile.

Jaipur 23rd Feb 2019 Ajay Data Chirag Patel



U-Label, constrained by

the "letter" principle

Understanding Domain Names

Use only Letters [a-z]

IPV6

IPV4

128 bits each

total range = 340 undecillion possible addresses

2001:db8::ff00:42:8329

VS

4 bytes each

total range = 4.3 billion possible addresses

123.45.67.89

Understanding IP Address

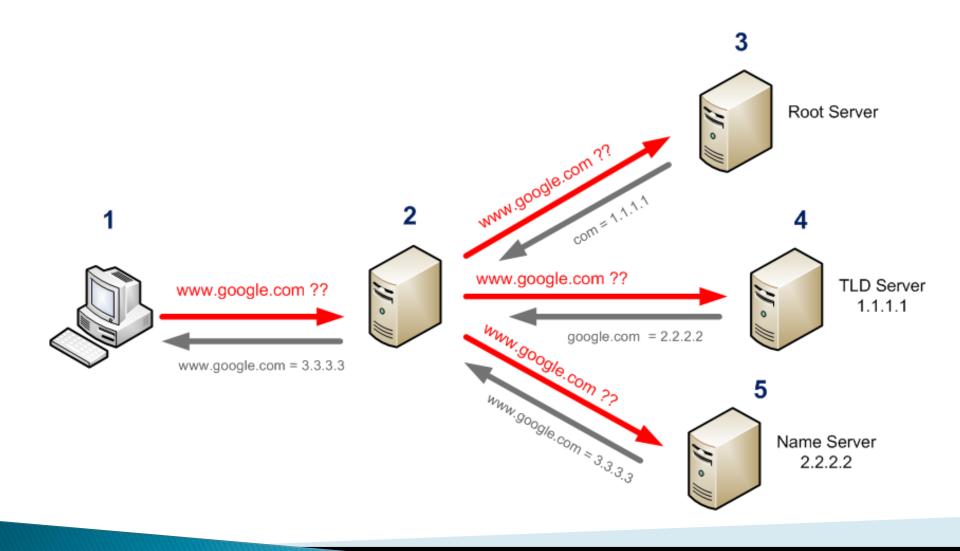
For IPv4, this pool is 32-bits (2³²) in size and contains 4,294,967,296 IPv4addresses. The IPv6 address space is 128bits (2^{128}) in size, containing 340,282,366,920,938,463,463,37 4,607,431,768,211,456 IPv6 addr esses

Look at exact numbers

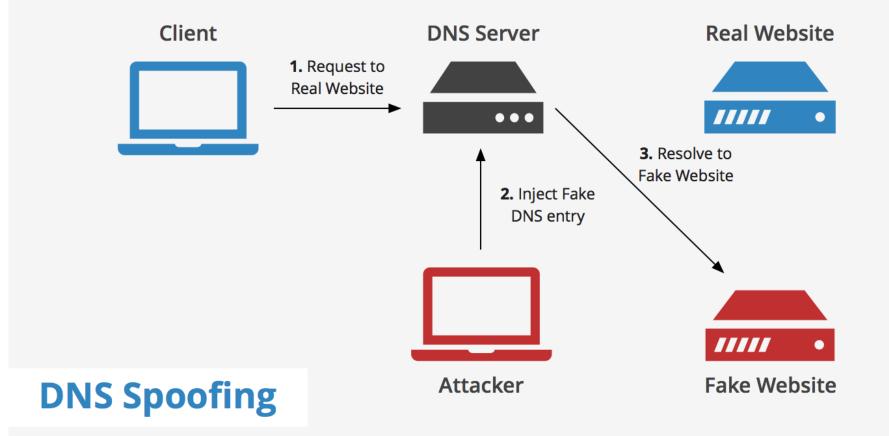
chirag@koohsports.com

अजय@डाटा.भारत

Understanding Email Addresses



Understanding DNS



Taking you to fake website

ED@tierajasthan.org chirag@0RACLE.IN

सम@ठग भारत

समझो@ठग.भारत

Lets see some examples

ED@Tierajasthan.com

सम@ठग भारत

CHIRAG@ORACLE.IN

समझो@ठग.भारत

You can check yourself at https://eai.xgenplus.com

Lets analyse them closely

1.Sender email address.2.headers of emails.3.Links in emails.4.Attachments.

SSL – 100% times

Transactional Alert Emails

SSL – Secured Socket Layer

Man in Middle / Hiding behind the wall

Fundamentals

CIA

- Confidentiality
- Integrity
- Availability

Layers

- Physical First line of defence (external/internal) Guard, Camera, Access Control etc.
- Device Security Servers, Deskstops, Mobile, Network, Storage

Thoughts

"We live in a world that has walls and those walls need to be guarded by men with guns" – Dialogue from From Few Good Men

Securing your Digital Life is not an option - Quote by Ajay Data