

A unique opportunity for you to be mentored by Amazonians



Batch 04
Week 7
19-Aug-2023



Training



Motivation



Direction



Success



Advice



Goal



Coaching

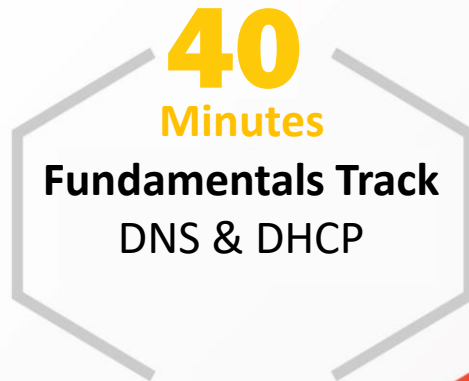


Support

Week 07 – 19-Aug



Ashish Prajapati

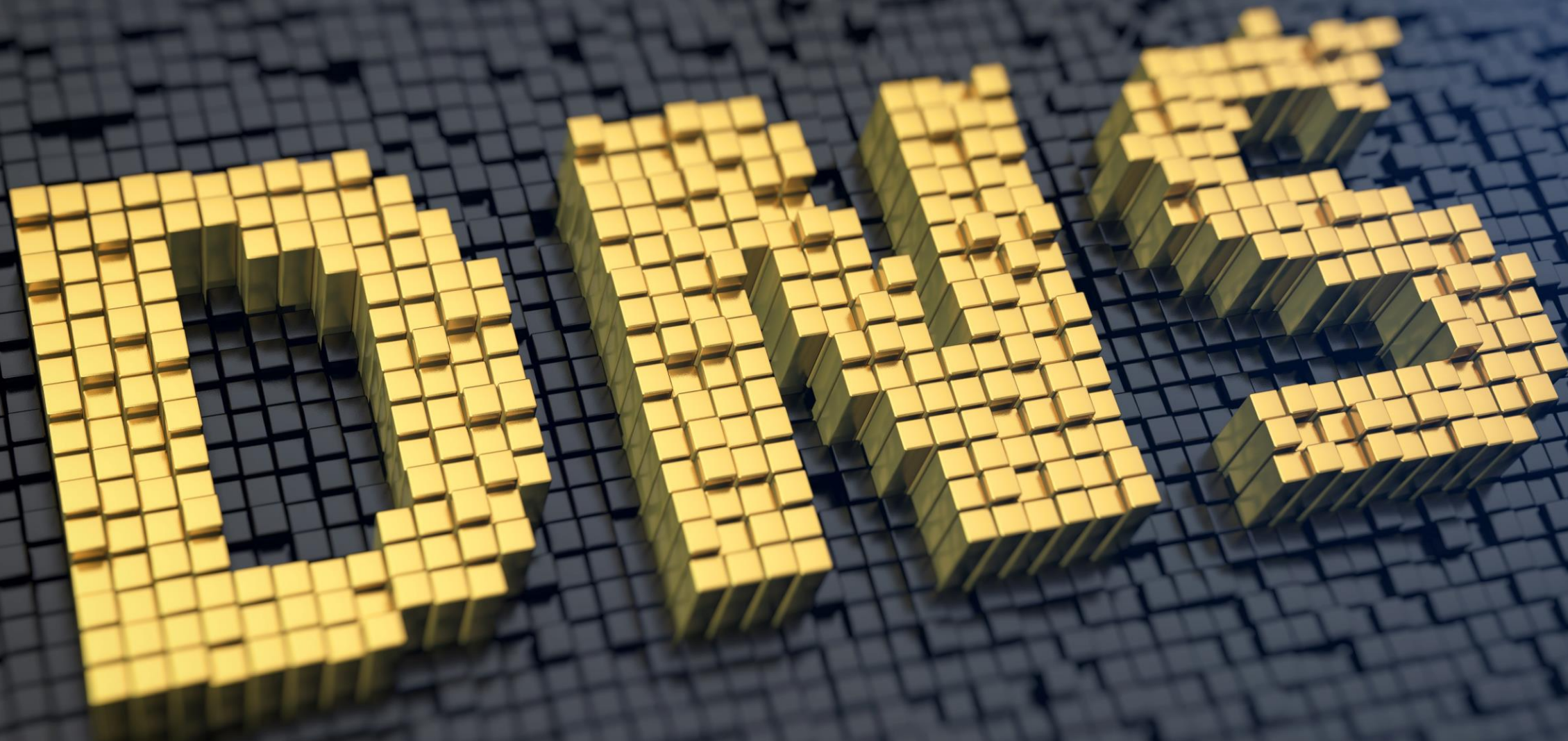


Parna Mehta



Pranav Chaudhary





Anybody remembers this?



I want to talk to James Bond



Can I get Bond's Phone no.?



007

Dial 007



Telephone Enquiry Office

I want to talk to James Bond



Can I get Bond's Phone no.?



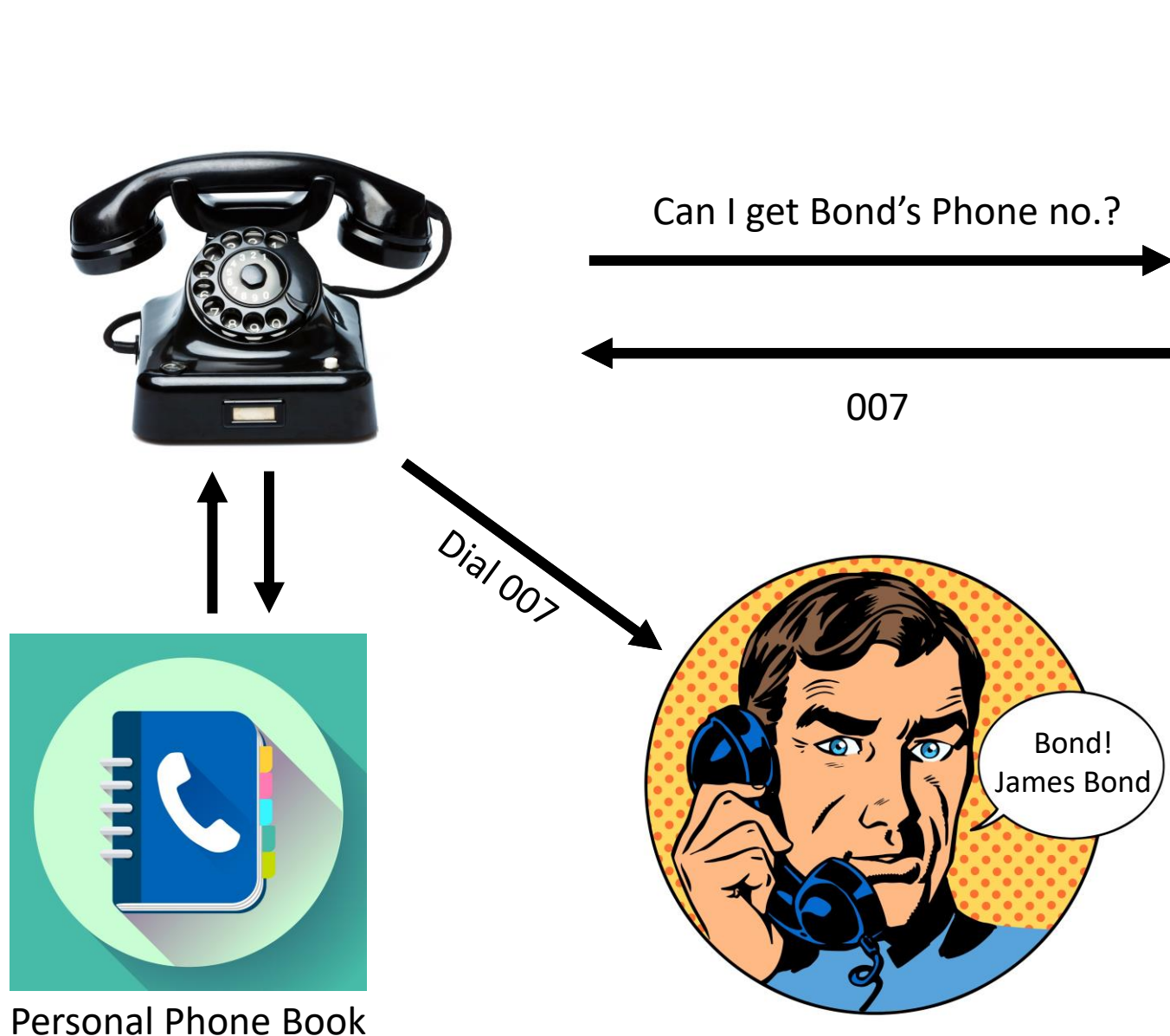
007

Dial 007



Telephone Directory

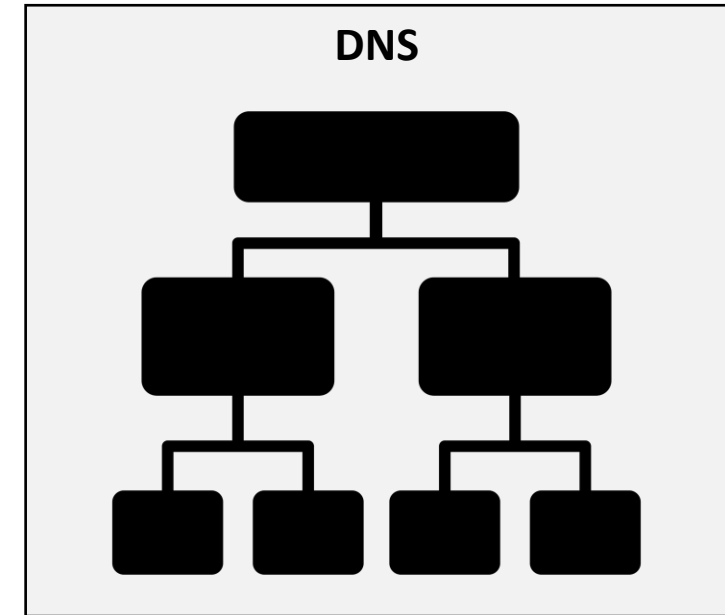
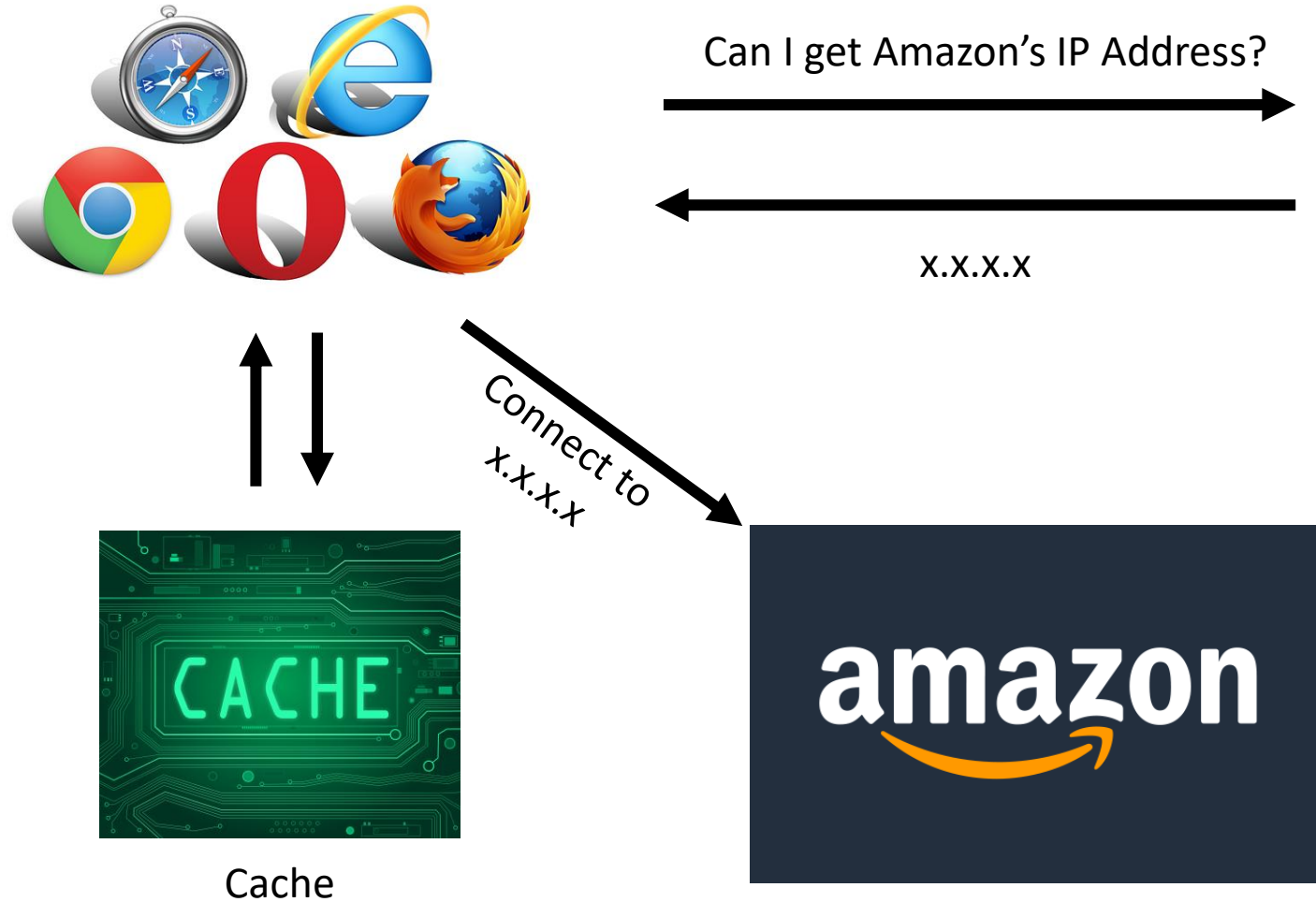
I want to talk to James Bond



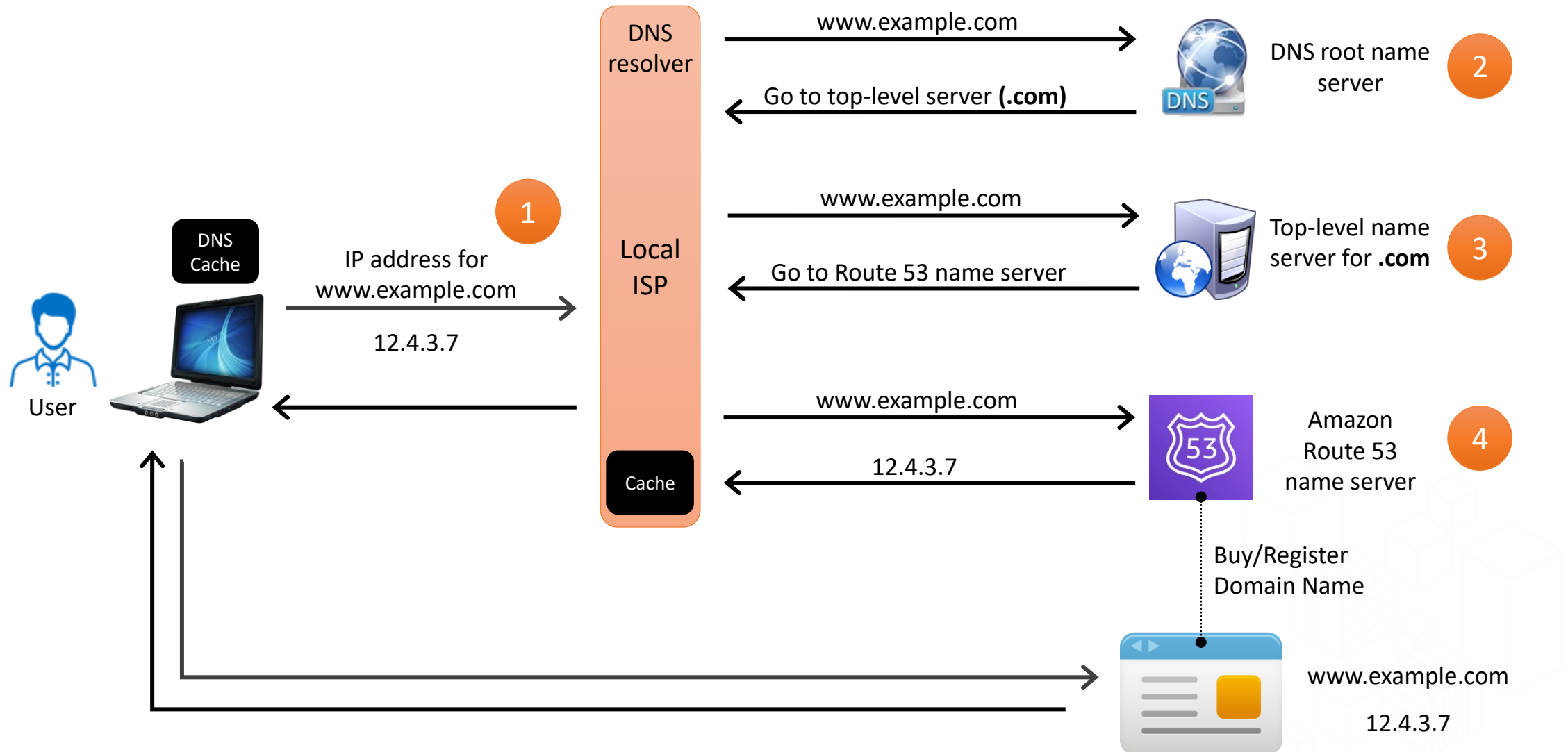
Telephone Directory



I want to go to Amazon.com



How DNS Works?



What is in the name?

- Online Dig

- <https://toolbox.googleapps.com/apps/dig/>

- Root Servers

- <https://www.iana.org/domains/root/servers>



DNS Records

- A Record
 - Points a domain or subdomain to an IP address
 - Amazon.com >> 54.239.28.85
- AAAA Record
 - Point the domain to an Ipv6 address.
 - MyIP.com >> 2a00:23c8:118b:1001:e9ff:4d32:6a62:946c
- CNAME Record
 - Points one domain or subdomain to another domain name
 - www.example.com >> web.example.com
- Alias Record
 - Let you route traffic to selected AWS resources, such as CloudFront distributions, Elastic Load Balancer, Amazon S3 buckets.
 - www.example.com >> elb01-3812349455.eu-west-1.elb.amazonaws.com



Route 53 – Routing Policies

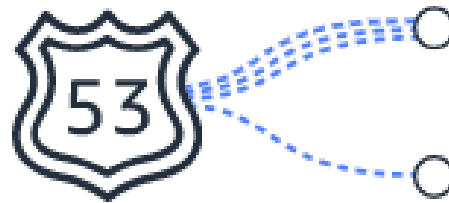
☒ Simple routing

Use if you're routing traffic to just one resource, such as a webserver.



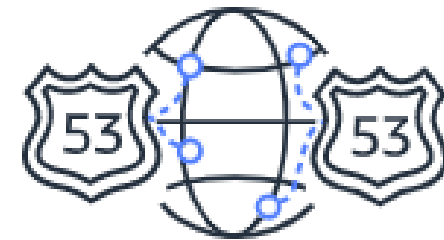
☐ Weighted

Use when you have multiple resources that do the same job, and you want to specify the proportion of traffic that goes to each resource. For example: two or more EC2 instances.



☐ Geolocation

Use when you want to route traffic based on the location of your users.



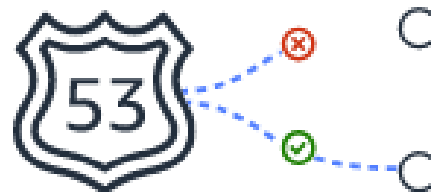
☐ Latency

Use when you have resources in multiple AWS Regions and you want to route traffic to the Region that provides the best latency.



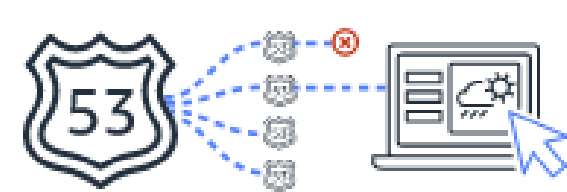
☐ Failover

Use to route traffic to a resource when the resource is healthy, or to a different resource when the first resource is unhealthy.



☐ Multivalue answer

Use when you want Route 53 to respond to DNS queries with up to eight healthy records selected at random.



Route 53 – Routing Policies

Policy	Decision is..
Simple	Simple. Here's the destination for that name.
Weighted	You can setup multiple resources and I'll route according to the percentage of weight you assign to each resource
Failover	Normally, I'd route you to <Primary>, but it appears down based on my Health Checks so I'll failover to <Backup>.
Geolocation	Looks you are in Europe, so I'm going to route you to a resource closer to you in that region.
Geoproximity	You're closer to the US-EAST-1 region than US-WEST-2 so I'll route you to US-EAST-1
Latency	Let me see which resource has lower latency from you, then I'll direct you that way.
Multi-value Answer	I will return server IP addresses, as a sort of basic local balancer



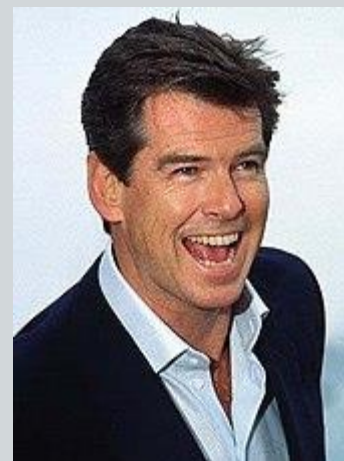
**5 Minutes
Break**



Who is your favourite bond?



Sean Connery



Pierce Brosnan



Daniel Craig

Security Track

Week 7



AWS Foundational and Layered Security Services



AWS
Security
Hub



AWS
Organizations



AWS Transit
Gateway



Amazon
VPC



AWS IoT
Device
Defender



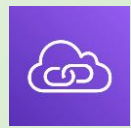
Amazon
Cloud
Directory



AWS
Control
Tower



AWS
Trusted
Advisor



Amazon
VPC
PrivateLink



AWS
Direct
Connect



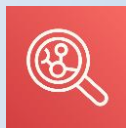
Resource
Access
manager



AWS
Directory
Service



Amazon
GuardDuty



Amazon
Inspector



Amazon
CloudWatch



AWS Step
Functions



AWS Systems
Manager



AWS
Lambda



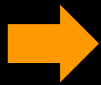
AWS
OpsWorks



AWS CloudFormation

Automate

Identify



Protect



Detect



Respond



Recover



AWS Service
Catalog



AWS Config



AWS Shield



IAM



AWS Secrets
Manager



KMS



Amazon
Cognito



AWS Well-
Architected
Tool



AWS
Systems
Manager



AWS
WAF



AWS
Firewall
Manager



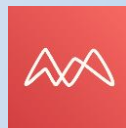
AWS
Certificate
Manager



AWS
CloudHSM



AWS IAM
Identity
Center



Amazon
Macie



AWS
Security
Hub

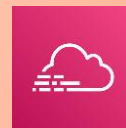
Investigate



Amazon
Detective



Amazon
CloudWatch



AWS
CloudTrail



Personal Health
Dashboard



Amazon
Route 53



Amazon S3
Glacier



Snapshot



Archive



Parna Mehta
AWS Technical Instructor

A day in the life of an Amazonian



Pranav Chaudhary
Software Developer



Thank you for attending.
See you next Saturday (26-Aug-2023)



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