






Placement Empowerment Program
Cloud Computing and DevOps Centre

Implement DNS for Your Application: Set up a DNS record to map your web application's IP or load balancer to a domain name.

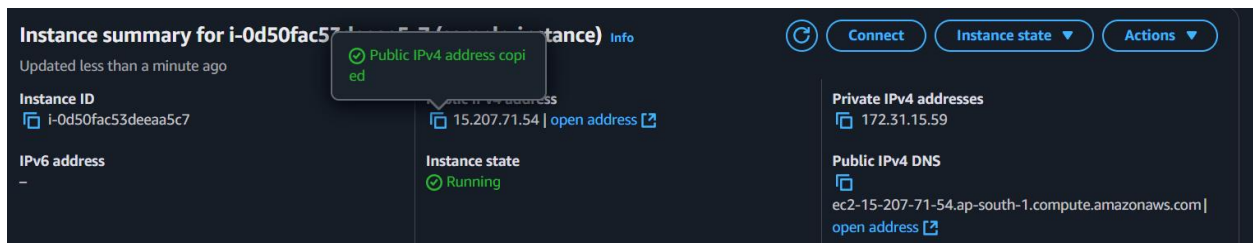
Name: Shalini D

Department : IT

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input type="checkbox"/>	sample-instance	i-0d50fac53deaa5c7	Running  	t2.micro	 Initializing	View alarms +	ap-south-1b	ec2-15-...

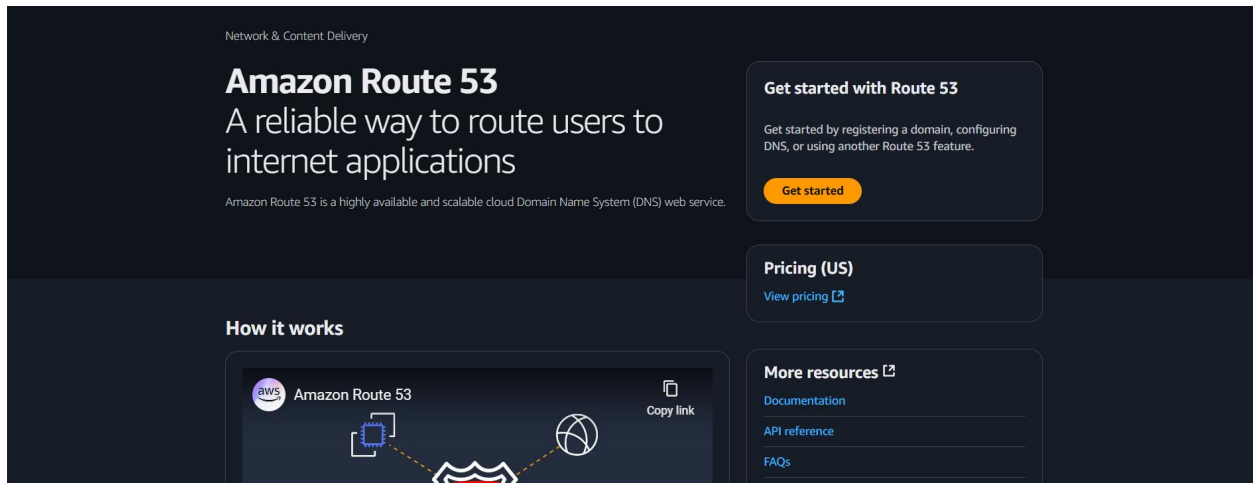
2. Open the EC2 dashboard

Find your instance and copy the Public IPv4 Address.

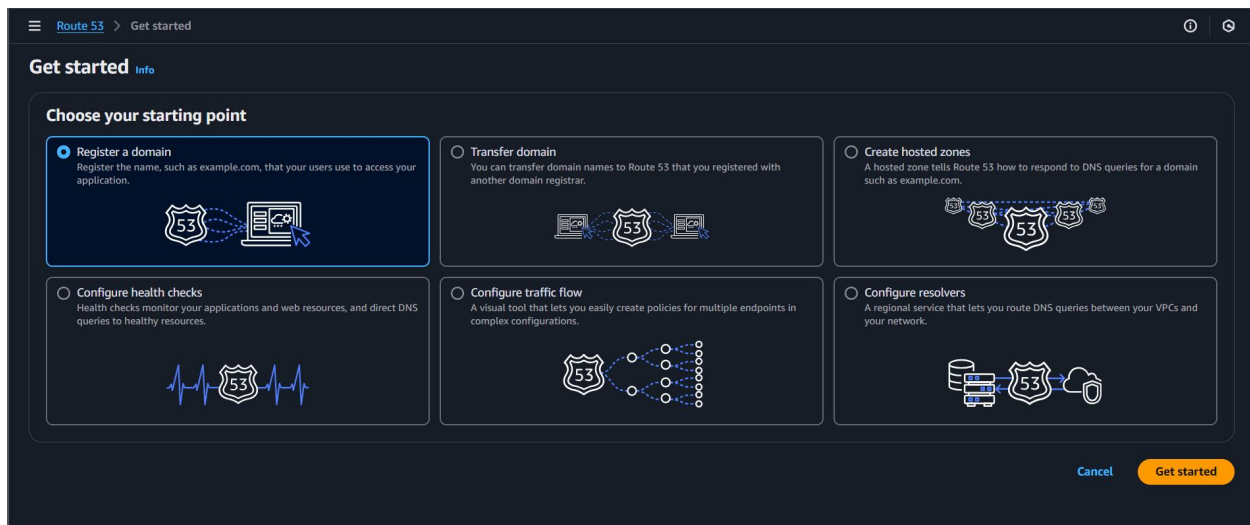


3. Register a domain name

- Open Amazon Route53

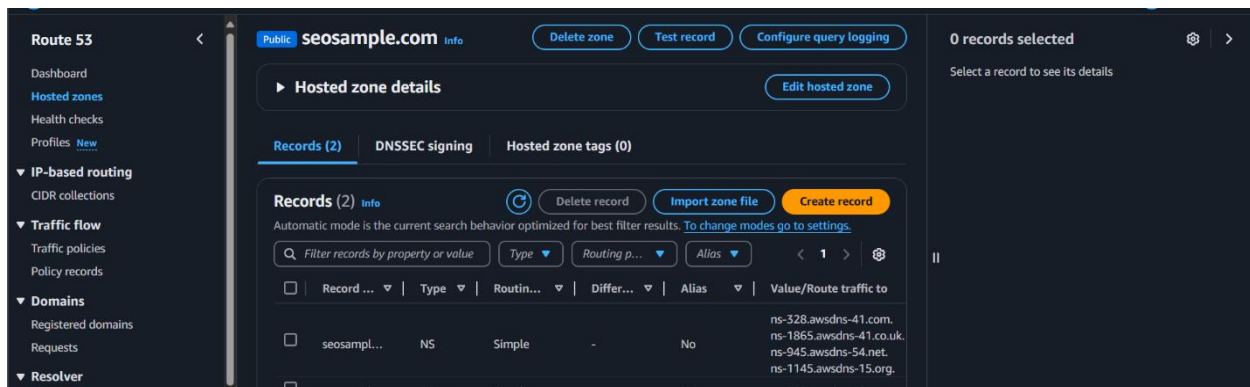


- Click **Register Domain** and follow the steps to purchase a domain.



4. Hosted Zone

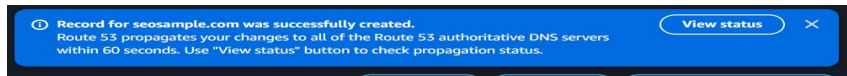
When you register the domain, AWS automatically creates a host zone.



5. Create Records

- Click **Create record**.
- Choose **Simple routing** → Click Next.
- Configure the record:

- Record name: Leave blank for root domain (example.com) or enter www for www.example.com.
- Record type: Choose **A – IPv4 address**.
- Value: Paste your EC2 Public IPv4 Address (e.g., 3.123.45.67).
- TTL: Keep default (300 seconds).
- Click Create record.



6. Verify the Domain

Wait a few minutes, then test if the domain resolves correctly.

Using **nslookup <domainname.com>** - you can test the configurations of your EC2 instance.

```
Non-authoritative answer:
Name:      seosample.com
Address:   15.207.71.54
```

Outcome:

By successfully setting up a DNS record for your web application, you will achieve the following outcomes:

Enhanced Accessibility: Users will be able to access your web application through a memorable and user-friendly domain name instead of an IP address, improving the overall user experience.

Professionalism: A custom domain name adds a level of professionalism and credibility to your web application, making it more appealing to users and potential customers.

Brand Recognition: A unique domain name helps in building and reinforcing your brand identity, making it easier for users to remember and return to your application.

SEO Benefits: Search engines prioritize domain names over IP addresses, which can lead to better visibility and ranking in search engine results.

Flexibility: Using a DNS record allows you to easily manage and update the routing of traffic to your application, whether it's for load balancing, scaling, or transitioning to new servers without disrupting user access.