

AWS Route 53 Tutorial

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Current Topics in Distributed Systems: Internet of
Things and Cloud Computing,

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- What is *DNS*?
 - ✓ converts a host or domain name into an IP address
- You can check your *IP* or a specific name-server by:
 - ✓ <http://www.kloth.net/services/>

Amazon Route 53

- *Amazon Route 53* is a highly available and scalable *Domain Name System (DNS)* web service.
- Route 53 is used for three main functions in any combination:
 - ✓ domain registration,
 - ✓ DNS routing, and
 - ✓ health checking

Amazon Route 53 (cont.)

- Your website needs a name, such as iot-cc-class.aau.at.
- Route 53 lets you register a name for your website or web application, known as a *domain name*
 - ✓ For an overview, see [How domain registration works](#).
 - ✓ For a procedure, see [Registering a new domain](#).
 - ✓ For a tutorial that takes you through registering a domain and creating a simple website in an Amazon S3 bucket, see [Getting started with Amazon Route 53](#).



Amazon Route 53

You can use Amazon Route 53 to register new domains, transfer existing domains, route traffic for your domains to your AWS and external resources, and monitor the health of your resources.

For registering a domain name



DNS management

If you already have a domain name, such as example.com, Route 53 can tell the Domain Name System (DNS) where on the Internet to find web servers, mail servers, and other resources for your domain.

[Learn More](#)

[Get started now](#)



Traffic management

Route 53 traffic flow provides a visual tool that you can use to create and update sophisticated routing policies to route end users to multiple endpoints for your application.

[Learn More](#)

[Get started now](#)



Availability monitoring

Route 53 can monitor the health and performance of your application as well as your web servers and other resources. Route 53 can also redirect traffic to healthy resources.

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Domain registration

If you need a domain name, you can find an available name and register it by using Route 53. You can also make Route 53 the registrar for existing domains that you registered with other registrars.

[Learn More](#)

[Get started now](#)

[Create Hosted Zone](#)[Go to Record Sets](#)[Delete Hosted Zone](#)

Amazon Route 53 is an authoritative Domain Name System (DNS) service. DNS is the system that translates human-readable domain names (example.com) into IP addresses (192.0.2.0). With authoritative name servers in data centers all over the world, Route 53 is reliable, scalable, and fast.

If you already have a domain name, such as example.com, Route 53 can tell the Domain Name System (DNS) where on the Internet to find web servers, mail servers, and other resources for your domain.

[Learn More](#)[Create Hosted Zone](#)

Route 53 documentation and support

[Getting started guide](#) | [Amazon Route 53 Documentation](#)

DNS is the system that translates human-readable domain names (example.com) into IP addresses (192.0.2.8).

- Dashboard
- Hosted zones**
- Health checks
- Traffic flow
- Traffic policies
- Policy records
- Domains
 - Registered domains
 - Pending requests
- Resolver
 - VPCs
 - Inbound endpoints
 - Outbound endpoints
 - Rules

[Create Hosted Zone](#) [Go to Record Sets](#) [Delete Hosted Zone](#)

X

Domain Name ▾



Type ▾

Record Set Count ▾

Comment

Hosted Zone ID ▾

You have no hosted zones

Create Hosted Zone  

A hosted zone is a container that holds information about how you want to route traffic for a domain, such as example.com, and its subdomains.

Domain Name:

Comment:

Type:

Public Hosted Zone ▾

A public hosted zone determines how traffic is routed on the Internet.

Create

EC2 Dashboard

Events

Tags

Reports

Limits

▾ INSTANCES

▮ Instances

Launch Templates

Spot Requests

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

▾ IMAGES

AMIs

Bundle Tasks

▾ ELASTIC BLOCK STORE

Volumes

Snapshots

Lifecycle Manager

▾ NETWORK & SECURITY

Security Groups

Elastic IPs

Placement Groups

Launch Instance ▾

Connect

Actions ▾

🔍 Filter by tags and attributes or search by keyword

?

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<input type="checkbox"/>	Name ▾	Instance ID ▴	Instance Type ▾	Availability ▾	Instance State ▾	Status Checks ▾	Alarm Status	Public DNS (IPv4)
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								
<input checked="" type="checkbox"/>	wordpress	i-0b5079dabb6747c6b	t2.micro	us-east-1a	🟢 running	🟢 2/2 checks ...	None	ec2-54-226-84-211.cc

Created a Wordpress web server in EC2

Instance: **i-0b5079dabb6747c6b (wordpress)** Public DNS: **ec2-54-226-84-211.compute-1.amazonaws.com**

Description

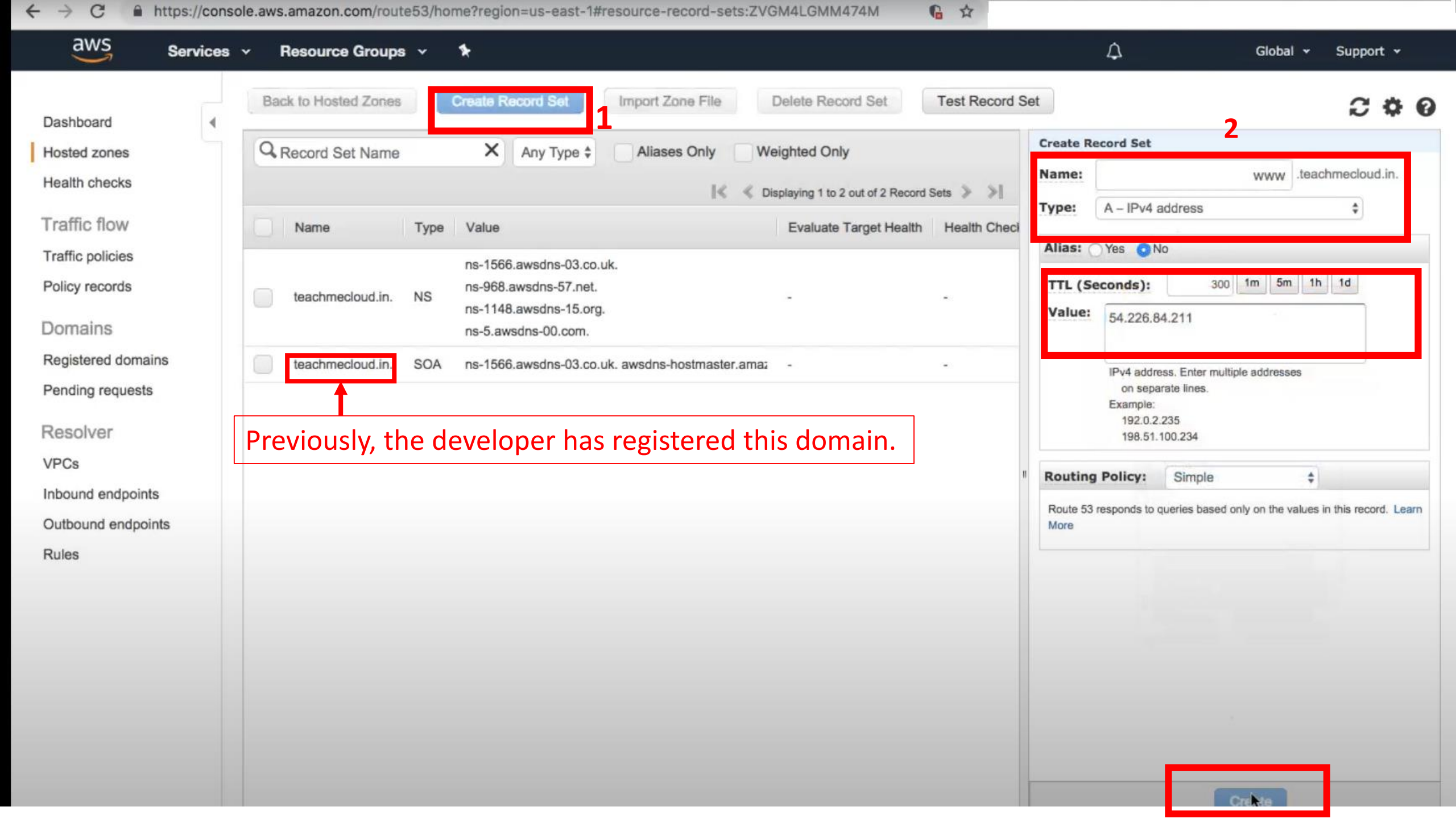
Status Checks

Monitoring

Tags

Usage Instructions

Instance ID	i-0b5079dabb6747c6b	Public DNS (IPv4)	ec2-54-226-84-211.compute-1.amazonaws.com
Instance state	running	IPv4 Public IP	54.226.84.211
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-80-166.ec2.internal
Availability zone		Private IPs	172.31.80.166
Security groups		Secondary private IPs	
Scheduled events		VPC ID	vpc-e0ee6c9a
AMI ID		Subnet ID	subnet-f8a4d9d6



Previously, the developer has registered this domain.

Domain name service is up!



user's Blog! — Just another WordPress site

Thanks for your attention