

Quickstart

This page explains how to set up a Cloud DNS managed zone and a resource record for your domain name. It walks through a simple example of creating a managed zone, and then setting up Address (A) and Canonical Name (CNAME) records for the domain.

- For Cloud DNS concepts, refer to the [Cloud DNS Overview](/dns/docs/overview) (/dns/docs/overview).
- For Virtual Private Cloud network configuration information, refer to the [VPC Overview](/vpc/docs/overview) (/vpc/docs/overview).
- For configuration how-tos and API information, refer to [What's next](#) (#whats-next).

Requirements

This quickstart assumes you have:

- A domain name through a domain name registrar. You can register a domain name through [Google Domains](https://domains.google.com/about/) (https://domains.google.com/about/) or another domain registrar of your choice.
- An IP address to point the A record of your zone. A valid IP address can be a server you already have running with an IP address you can point to. For example, you can go through [this tutorial](/compute/docs/tutorials/basic-webserver-apache) (/compute/docs/tutorials/basic-webserver-apache) to start up a web server on a Compute Engine VM.

Before you begin

1. [Sign in](https://accounts.google.com/Login) (https://accounts.google.com/Login) to your Google Account.

If you don't already have one, [sign up for a new account](https://accounts.google.com/SignUp) (https://accounts.google.com/SignUp).

2. In the Cloud Console, on the project selector page, select or create a Cloud project.

★ **Note:** If you don't plan to keep the resources that you create in this procedure, create a project instead of selecting an existing project. After you finish these steps, you can delete the project, removing all

resources associated with the project.

[Go to the project selector page](https://console.cloud.google.com/projectselector2/home/dashboard) (https://console.cloud.google.com/projectselector2/home/dashboard)

3. Make sure that billing is enabled for your Google Cloud project. [Learn how to confirm billing is enabled for your project](#) (/billing/docs/how-to/modify-project).
4. Enable the DNS API.

[Enable the API](https://console.cloud.google.com/flows/enableapi?apiid=dns) (https://console.cloud.google.com/flows/enableapi?apiid=dns)

Create a managed public zone

A managed zone is a container for DNS records of the same DNS name suffix. A managed zone has a set of name servers that accept and responds to queries. Create a new managed public zone:

1. Go to the Create a DNS zone page in the Cloud Console.

[Go to the Create a DNS zone page](https://console.cloud.google.com/networking/dns/zones/~new) (https://console.cloud.google.com/networking/dns/zones/~new)

2. Choose Public for the **Zone type**.
3. Enter my-new-zone for the **Zone name**.
4. Enter a **DNS name** suffix for the zone using a domain name that you own. For example, **example.com**.
5. Under **DNSSEC**, keep the Off setting selected.

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← Create a DNS zone

A DNS zone is a container of DNS records for the same DNS name suffix. In Cloud DNS, all records in a managed zone are hosted on the same set of Google-operated authoritative name servers. [Learn more](#)

Zone name [?]
my-new-zone

DNS name [?]
example.com

DNSSEC [?]
Off

Description (Optional)

[Create](#) [Cancel](#)

Equivalent [REST](#) or [command line](#)

6. Click **Create**.

The **Zone details** page is displayed. Note that default NS and SOA records have been created for you.

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Zone details [+ ADD RECORD SET](#) [DELETE ZONE](#)

my-new-zone
DNS name: example.com.

Record sets
[Add record set](#) [Delete record sets](#)

<input type="checkbox"/> DNS name ^	Type	TTL (seconds)	Data
example.com.	NS	21600	ns-cloud-d1.googledomains.com. ns-cloud-d2.googledomains.com. ns-cloud-d3.googledomains.com. ns-cloud-d4.googledomains.com.
example.com.	SOA	21600	ns-cloud-d1.googledomains.com. cloud-dns-hostmaster.google.com. 1 21600 3600 259200 300

On the zone listing page, click the zone name to get to the records page.

Create a new record

Create a new record to point the domain to an external IP address.

- If your IP address is in the form `#. #. #. #`, you have an IPv4 address and need to create an A record.
- If your IP address is in the format `#: #: #: #: #: #: #: #`, you have an IPv6 address and need to create an AAAA record.

1. Go to the Create a DNS zone page in the Cloud Console.

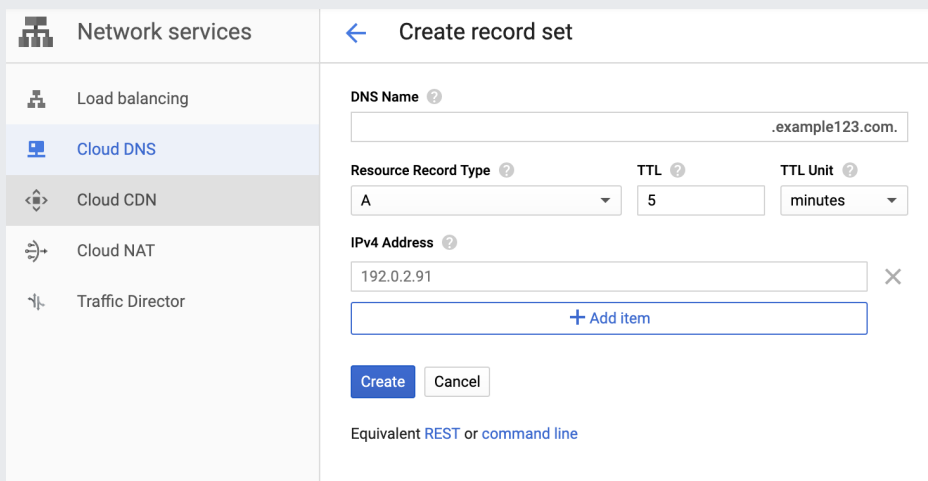
[Go to the Cloud DNS page](https://console.cloud.google.com/networking/dns/zones) (<https://console.cloud.google.com/networking/dns/zones>)

2. Click the zone where you want to add a record set.

3. Click **Add record set**.

4. To create an A record, select A from the **Resource Record Type** menu. To create an AAAA record, select AAAA.

5. Under **IPv4 Address** or **IPv6 Address** section, enter the IP address you want to use with this domain.



The screenshot shows the 'Create record set' form in the Cloud Console. On the left is a sidebar with 'Network services' and a list of services: Load balancing, Cloud DNS (selected), Cloud CDN, Cloud NAT, and Traffic Director. The main form area has a back arrow and the title 'Create record set'. It contains the following fields:

- DNS Name**: A text input field with a placeholder '.example123.com'.
- Resource Record Type**: A dropdown menu with 'A' selected.
- TTL**: A text input field with '5'.
- TTL Unit**: A dropdown menu with 'minutes' selected.
- IPv4 Address**: A text input field with '192.0.2.91' and a clear button (X).
- + Add item**: A button to add additional IP addresses.
- Create** and **Cancel**: Action buttons.
- At the bottom, it says 'Equivalent REST or command line' with a link.

6. Click **Create**.

Create a CNAME record

Next, create a CNAME record for the `www` subdomain:

1. Click **Add record set**.
2. Under **DNS Name**, enter `www`.
3. Under **Resource Record Type**, choose **CNAME**.
4. Under **Canonical name**, enter the domain name, followed by a period. For example, `example.com..`

The screenshot shows the 'Create record set' form in the Google Cloud Platform interface. The form is titled 'Create record set' and is part of the 'my-project' interface. It contains several input fields: 'DNS Name' with the value 'www.example.com.', 'Resource Record Type' set to 'CNAME', 'TTL' set to '5', and 'TTL Unit' set to 'minutes'. The 'Canonical name' field contains 'example.com.'. There are also 'Create' and 'Cancel' buttons at the bottom, and a link for 'Equivalent REST or command line'.

5. Click **Create**.

The record update takes some time to propagate depending on the time-to-live (TTL) values of the records. You can verify that the DNS records are working by visiting the domain name and confirming that the domain resolves to your IP address.

Update your domain name servers

Finally, you must [update your domain's name servers to use Cloud DNS](/dns/docs/update-name-servers) (/dns/docs/update-name-servers) to publish your newly-created records to the Internet.

Even if your domain name is registered with Google Domains, you still need to [update the name servers](https://support.google.com/domains/answer/3290309) (https://support.google.com/domains/answer/3290309) — although they look very similar,

the name servers used by Google Domains are *not* the same as those used by Cloud DNS for your managed zone.

That's it, you successfully set up your DNS records using Cloud DNS.

Warning: You must enter the authoritative nameservers for Cloud DNS in the name servers section of Google Domains, as opposed to adding them as NS records to the Google Domains managed zone.

Clean up

To avoid incurring charges to your Google Cloud account for the resources used in this quickstart, follow these steps.

1. Go to the Cloud DNS **Zones** page in Cloud Console.

[Go the DNS Zones page \(https://console.cloud.google.com/networking/dns/zones/\)](https://console.cloud.google.com/networking/dns/zones/)

2. On the Cloud DNS **Zones** page, click the zone name (`my-new-zone`) to get to the **Zone details** page.
3. Select the A and CNAME records that you created.
4. Click **Delete Records Sets**.

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Zone details + ADD RECORD SET DELETE ZONE

my-new-zone
DNS name: example.com

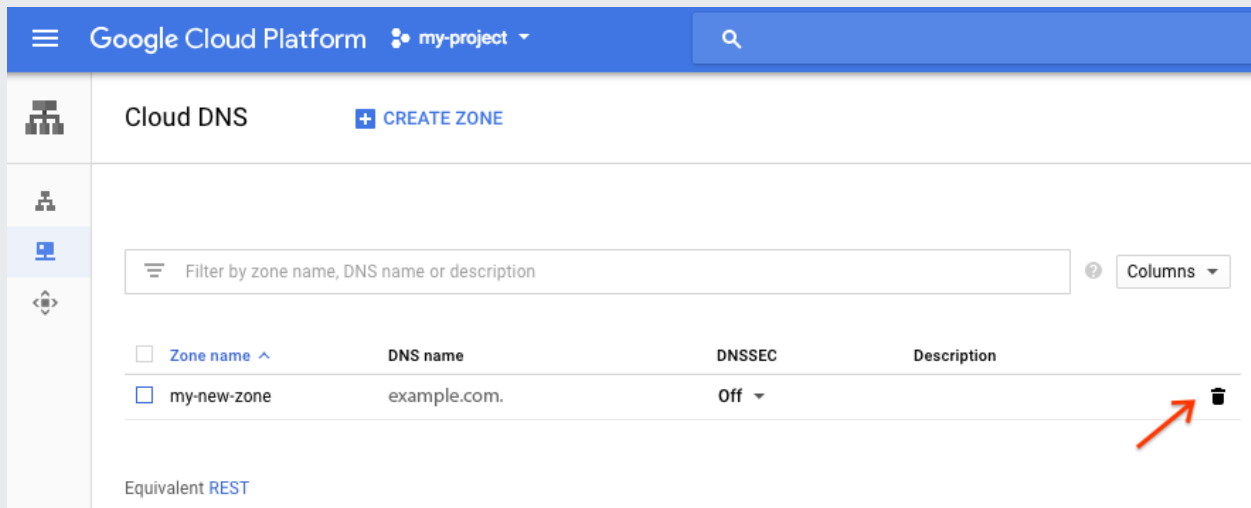
Record sets
Add record set Delete record sets

<input checked="" type="checkbox"/> DNS name ^	Type	TTL (seconds)	Data	
<input checked="" type="checkbox"/> example.com.	A	300	192.0.1.100	
example.com.	NS	21600	ns-cloud-d1.googledomains.com. ns-cloud-d2.googledomains.com. ns-cloud-d3.googledomains.com. ns-cloud-d4.googledomains.com.	
example.com.	SOA	21600	ns-cloud-d1.googledomains.com. cloud-dns-hostmaster.google.com. 1 21600 3600 259200 300	
<input checked="" type="checkbox"/> www.example.com	CNAME	300	example.com.	

5. Go to the Cloud DNS **Zones** page in Cloud Console.

Go the [DNS Zones page](https://console.cloud.google.com/networking/dns/zones/) (https://console.cloud.google.com/networking/dns/zones/)

6. Click the trash can icon next to the zone name (`my-new-zone`) to delete the zone.



The screenshot shows the Google Cloud Platform interface for Cloud DNS. The top navigation bar includes the Google Cloud Platform logo, the project name 'my-project', and a search icon. Below the navigation bar, the 'Cloud DNS' section is visible, featuring a '+ CREATE ZONE' button. A search filter is present with the text 'Filter by zone name, DNS name or description'. A table lists the DNS zones with columns for 'Zone name', 'DNS name', 'DNSSEC', and 'Description'. One zone is listed: 'my-new-zone' with 'example.com.' as the DNS name and 'Off' for DNSSEC. A trash can icon is located at the end of this row, with a red arrow pointing to it. Below the table, there is a link for 'Equivalent REST'.

<input type="checkbox"/> Zone name ^	DNS name	DNSSEC	Description
<input type="checkbox"/> my-new-zone	example.com.	Off ▾	

What's next

- [Manage records for Cloud DNS](/dns/records/) (/dns/records).
- [Manage zones for Cloud DNS](/dns/zones/) (/dns/zones).
- [Use the Cloud DNS REST API](/dns/docs/reference/v1/) (/dns/docs/reference/v1).
- [Cloud DNS Pricing](/dns/pricing/) (/dns/pricing).

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