

NTT Communications

Cloud<sup>n</sup>

# **DNS Operation Guidelines**

**Ver.1.0**

Refrain from secondary distribution (distribution, reproduction, provision, etc.) of the content described in this booklet.

<b>Edition</b>	<b>Date of Revision</b>	<b>Revision</b>
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# 1-1) Service Overview

This guideline will describe how to use Cloud<sup>n</sup> DNS.

Cloud<sup>n</sup> DNS is a dynamic DNS service linked to other Cloud<sup>n</sup> services. It is equivalent to Route 53 services in AWS.

Highly available large scale web services can be provided by combining with Cloud<sup>n</sup> Load Balancer Advance.

The main functions are as follows:

## ■ Dynamic DNS Services

- As a dynamic DNS service, can create, edit, and delete host zones and create, edit, and delete the resource records within the host zones.
- A zone is the unit managed by the DNS domain and one domain is equivalent to one zone.
- A maximum of 100 zones can be hosted by one account.
- A resource record is the host information that can be registered to the DNS.
- A maximum of 10,000 resource records is applied to one zone.
- The maximum number of queries per month for one zone is 1 million queries. It does not support weighted round-robins.
- It does not support latency based routing.
- It does not support zone apex, however, it can map host names + domain names (eg. [www.example.com](http://www.example.com)) to the DNS name that is automatically attached by the Cloud<sup>n</sup> Load Balancer Advance from the designated function of the alias target that is compatible with AWS Route53 API.
- Supports wild card entries.
- The following are the supported resource record types.

• A	• PTR
• AAAA	• SOA
• CNAME	• SPF
• MX	• SRV
• NS	• TXT

## ■ Compatible with Amazon Route 53

- Provides an API that is compatible with Amazon Route 53 API.
- It conforms with Amazon Route 53 API version 2012-02-29.
- Can create, update, and delete the zones via API and resource records.

## 1-2) Preparations

Please prepare the following to use Cloud<sup>n</sup> DNS.

**Device for Internet Access**

Please have a device ready such as personal computers and modems to access the intranet and internet.

**Service for Internet Access**

Please have a service for internet access.

Eg. An always-on service such as OCN dial access service, OCN ADSL access service, and super OCN.

\*You can use internet access services offered by other companies.

\*Please confirm that the HTTPS port 443 is open when using an in-house proxy server.

**Software to Browse DNS Console (Browser Software)**

Firefox18.0.1 onwards is recommended.

Please be reminded that other browsers may not display everything in a normal form.

**Email Messages on How to Use Cloud<sup>n</sup>**

Please have the message “How to Use Cloud<sup>n</sup>”, that is send when starting the service, ready.

## 2-1) Start up DNS Console

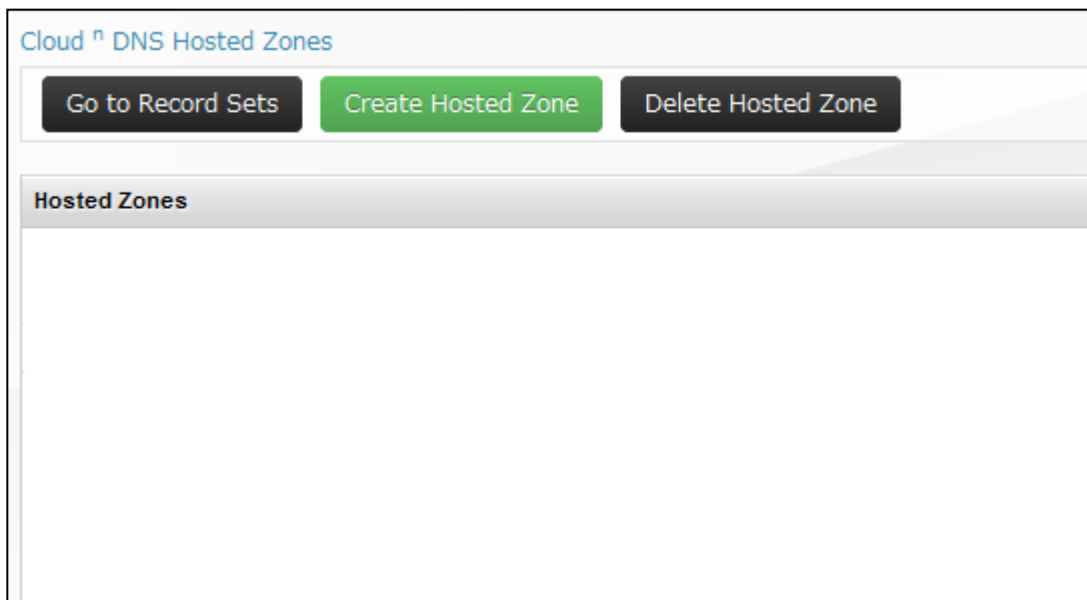
1

Log into Cloud<sup>n</sup> portal and click *To Console* that is displayed when placing the mouse on the DNS icon in your region.



2

The DNS console will start up with a new window.



# 3-1) Create Host Zone

1

Click *Create Hosted Zone* (1) on the upper part of the DNS console, enter the domain name in the Domain Name column (eg. *example.com*) (2), and click *Create Hosted Zone* (3) on the lower part of the DNS console.

Cloud DNS Hosted Zones

Go to Record Sets Create Hosted Zone Delete Hosted Zone

Hosted Zones

Domain Name	Hosted Zone ID	Record Set Count
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Processing, please wait ...

Create Hosted Zone

Domain Name:

Example: example.com

Create Hosted Zone

2

A host zone under the domain name, *example.com*, will be created.

Cloud DNS Hosted Zones

Go to Record Sets Create Hosted Zone Delete Hosted Zone

Hosted Zones

Domain Name	Hosted Zone ID	Record Set Count	Comment
example.com.		2	

## 3-2) Create Record Set

1

Click *Domain name (example.com)* (1) and click *Go to Record Sets* (2).

Cloud DNS Hosted Zones

Go to Record Sets Create Hosted Zone Delete Hosted Zone

Hosted Zones

Domain Name	Hosted Zone ID	Record Set Count	Comment
example.com.	DB2EC8819DE243	2	

2


Click *Create Record Set*.

Cloud DNS Record Sets > test\_example.com.

Back to Hosted Zones Create Record Set Delete Record Set

Record Sets

Name	Type	Value	TTL
example.com	SOA	ns-14.dns.jp-e1.cloudn-service.com. root.cloudn2.net. 1 7200 9	60
example.com	NS	ns-14.dns.jp-e1.cloudn-service.com. ns-15.dns.jp-e1.cloudn-service.com. ns-16.dns.jp-e1.cloudn-service.com.	60

 SOA and NS records will be created under the same default as the host zone.



## 3-2) Create Record Set

### 3

A record set screen will appear on the lower part of the DNS console. Enter the values in each item and click *Create Record Set* when completed.

Item	Value
Name	Write domain name that will be registered as the resource record in FQDN.
Type	Select from the following seven items. "A – IPv4 address", "CNAME – Canonical name", "MX – Mail exchange", "AAAA – IPv6 address", "TXT – Text", "SRV – Service locator", and "SPF – Sender Policy Framework".. (DNS-API has already provided "PTR – Pointer". It will be provided in DNS console in the future.)
Alias	Select either "Yes" or "No".
Alias Target (When selecting Yes under <u>Alias</u> )	Select candidates from the pull down list.
TTL (Seconds)	Can enter anything. Can select 1m (1 minutes), 5m (5 minutes), 1h (1 hour), or 1d (1 day).
Value	Enter the value corresponding to the designated Type. 【eg】 Enter "192.0.2.235" when selecting "A - IPv4 address" for Type.

Create Record Set

Name:  .example.com.


Type:  ▼

Alias:  Yes  No

TTL(Seconds):

Value:

IPv4 address. Enter multiple addresses on separate lines.  
Example:  
192.0.2.235  
198.51.100.234



## 3-2) Create Record Set

4

The record set will be created. (The following diagram is an example of a MX record and A record.)

Cloud DNS Record Sets > test\_example.com.

[Back to Hosted Zones](#) [Create Record Set](#) [Delete Record Set](#)

Name	Type	Value	TTL
mail.qaexample.com.	MX	10 mailserver.example.com.	300
example.com	NS	ns-11.dns.jp-e1.cloudn-service.com. ns-12.dns.jp-e1.cloudn-service.com. ns-13.dns.jp-e1.cloudn-service.com.	60
example.com	SOA	ns-11.dns.jp-e1.cloudn-service.com. root.cloudn2.net. 1 7200 5 60	60
test01.qaexample.com.	A	192.0.2.235	300