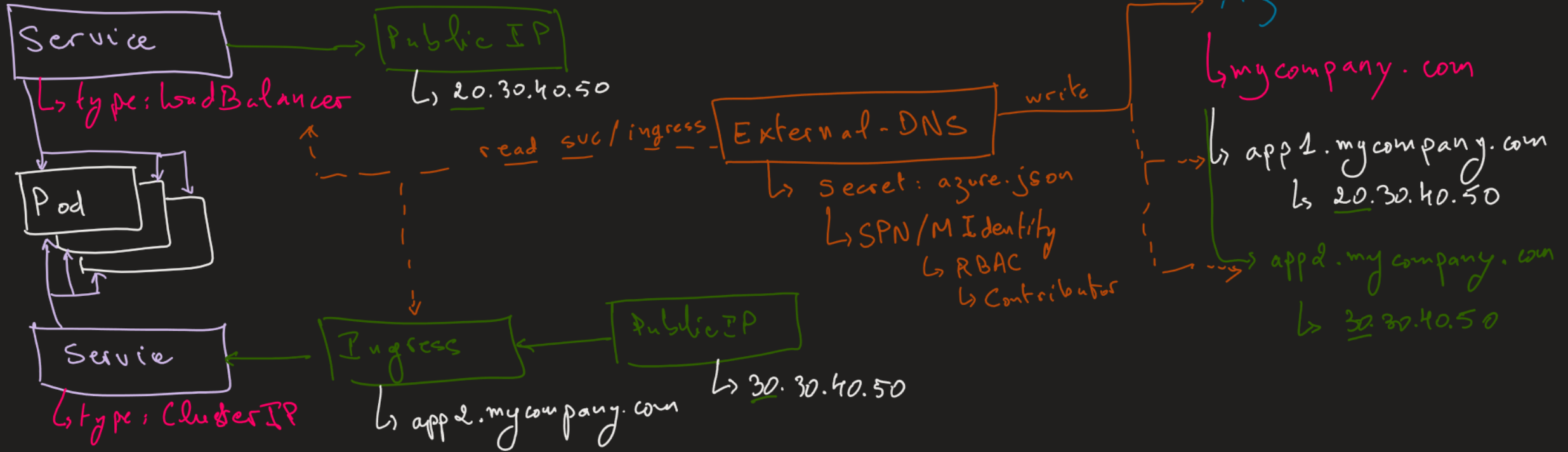




# External-DNS



# Kubernetes



ExternalDNS allows you to keep selected zones (via --domain-filter) synchronized with Ingresses and Services of type=LoadBalancer and nodes in various DNS providers like Azure DNS Zone.

<> Code

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<> Code

	Merge pull request #3364 from arturhoo/cloudflare-paginated-list-re...	✓ b3a7698 3 days ago	🕒 3,011 commits
📁 .github	chore: Fixed GH workflow approval		3 weeks ago
📁 charts	remove tpl function		last month
📁 controller	Merge pull request #2609 from claudiumocanu/fix-reconcile-blocker		8 months ago
📁 docs	Merge pull request #3364 from arturhoo/cloudflare-paginated-list-requ...		3 days ago
📁 endpoint	Route53: retry single changes in a batch if the batch fails		2 months ago
📁 internal	Route53: retry single changes in a batch if the batch fails		2 months ago
📁 kustomize	updates kustomize with newly released version		2 months ago
📁 pkg	Merge pull request #3364 from arturhoo/cloudflare-paginated-list-requ...		3 days ago
📁 plan	Revert "fix: New provider specific update"		4 months ago
📁 provider	Merge pull request #3364 from arturhoo/cloudflare-paginated-list-requ...		3 days ago
📁 registry	Route53: retry single changes in a batch if the batch fails		2 months ago
📁 scripts	Fix typo: kustomize-version-updater.sh file name		4 months ago
📁 source	gateway-api: upgrade from v0.5.1 to v0.6.0 and add GRPCRoute support		2 months ago
📄 .dockerignore	Cleanup Docker context and decrease build time		3 years ago
📄 .gitignore	Revert "Revert "Workflow for automatic documentation creation and pu...		10 months ago

### About

Configure external DNS servers (AWS Route53, Google CloudDNS and others) for Kubernetes Ingresses and Services

- dns
- kubernetes
- route53
- aws
- ingress
- gcp
- dns-record
- clouddns
- external-dns
- k8s-sig-network
- dns-providers
- dns-servers
- dns-controller

- 📖 Readme
- 📜 Apache-2.0 license
- 📄 Code of conduct
- 📜 Security policy
- ★ 6.1k stars
- 👁 103 watching
- 🍴 2.2k forks

### Releases82

v0.13.2

Latest

on Jan 14

+ 81 releases

ExternalDNS allows you to keep selected zones (via --domain-filter) synchronized with Ingresses and Services of type=LoadBalancer and nodes in various DNS providers:

Google Cloud DNS

AWS Route 53

AWS Cloud Map

AzureDNS and Private DNS

BlueCat

Civo

CloudFlare

RcodeZero

DigitalOcean

DNSimple

Infoblox

Dyn

OpenStack Designate

PowerDNS

CoreDNS

Exoscale

Oracle Cloud Infrastructure DNS

Linode DNS

RFC2136

NS1

TransIP

VinylDNS

Vultr

OVH

Scaleway

Akamai Edge DNS

GoDaddy

Gandi

ANS Group SafeDNS

IBM Cloud DNS

TencentCloud PrivateDNS

TencentCloud DNSPod

Plural

Pi-hole

# How External-DNS works ?

```
apiVersion: v1
kind: Service
metadata:
  name: app01-svc
  annotations:
    external-dns.alpha.kubernetes.io/hostname: app01.houssem.cloud
spec:
  ports:
    - port: 80
      protocol: TCP
      targetPort: 80
  selector:
    app: app01
  type: LoadBalancer
```

```
# azure.json (SPN or Managed Identity)
{
  "tenantId": "16b3c013-d300-468d-ac64-7eda0820b6d3",
  "subscriptionId": "82f6d75e-85f4-434a-ab74-5dddd9fa8910",
  "resourceGroup": "rg-azure-dns",
  "aadClientId": "9cc6c0d1-99a3-4d86-9df4-a84df55b8232",
  "aadClientSecret": "~K~8Q~PA9WMsDEWuUxhoSIhvZNIwGMiVlHTqLaYX"
}
```

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: app02-ingress
spec:
  ingressClassName: nginx
  rules:
    - host: app02.houssem.cloud
      http:
        paths:
          - path: /
            pathType: Prefix
            backend:
              service:
                name: app02-svc
                port:
                  number: 80
```



```
$ kubectl logs external-dns-5fd5797df-xklxn -n external-dns
```

```
level=info msg="Updating A record named 'app01' to '20.73.224.33' for Azure DNS zone 'houssem.cloud'."
```

```
level=info msg="Updating TXT record named 'externaldns-app01' to '\"heritage=external-dns,external-dns/owner=default,external-dns/resource=service/default/app01-svc\"' for Azure DNS zone 'houssem.cloud'."
```

```
level=info msg="Updating TXT record named 'externaldns-a-app01' to '\"heritage=external-dns,external-dns/owner=default,external-dns/resource=service/default/app01-svc\"' for Azure DNS zone 'houssem.cloud'."
```

```
level=info msg="Updating A record named 'app02' to '20.31.96.10' for Azure DNS zone 'houssem.cloud'."
```

```
level=info msg="Updating TXT record named 'externaldns-app02' to '\"heritage=external-dns,external-dns/owner=default,external-dns/resource=ingress/default/app02-ingress\"' for Azure DNS zone 'houssem.cloud'."
```

```
level=info msg="Updating TXT record named 'externaldns-a-app02' to '\"heritage=external-dns,external-dns/owner=default,external-dns/resource=ingress/default/app02-ingress\"' for Azure DNS zone 'houssem.cloud'."
```

- DNS

Overview
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- 📑

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- 🔧

Tasks (preview)
- 📄

Export template
- Support + troubleshooting
- 💓

Resource health
- 🗣️

New Support Request

**i** You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Search record sets

Name	Type	TTL	Value	Alias resource type	Alias target
@	NS	172800	ns1-33.azure-dns.com. ns2-33.azure-dns.net. ns3-33.azure-dns.org. ns4-33.azure-dns.info.		...
@	SOA	3600	Email: azuredns-hostm... Host: ns1-33.azure-dns... Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1		...
app01	A	300	20.86.202.21		...
app02	A	300	20.73.123.67		...
apps	NS	3600	ns1-37.azure-dns.com. ns2-37.azure-dns.net. ns3-37.azure-dns.org. ns4-37.azure-dns.info.		...
blog	CNAME	3600	housemdellai.github.io		...
externaldns-a-app01	TXT	300	"heritage=external-dns...		...
externaldns-a-app02	TXT	300	"heritage=external-dns...		...
externaldns-app01	TXT	300	"heritage=external-dns...		...
externaldns-app02	TXT	300	"heritage=external-dns...		...

aspnetapp

Home

Privacy

.NET version

Operating system

Processor architecture

CPU cores

Containerized

User

Memory, total available GC memory

Host name

aspnetapp

Home

Privacy

# Welcome to .NET

.NET version	.NET 7.0.3
Operating system	Linux 5.15.0-1033-azure #40-Ubuntu SMP Mon Jan 23 20:36:59 UTC 2023
Processor architecture	X64
CPU cores	2
Containerized	true
User	root
Memory, total available GC memory	7280558080 (6.78 GiB)
Host name	app02-9bdd6845f-vh422
Server IP address	10.224.0.24 fe80::9ca8:37ff:fef7:3039%22