

Managing DNS with DNSControl

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Problem

- I want to move DNS providers
 - Namecheap to CloudFlare
- I want to automate DNS management
 - Avoid using web panels

Context

- 8 domains
- 40ish entries
- 2-3 providers

DNSControl

- Define DNS entries in configuration files
- Push changes with the `dnscontrol` tool
- Like puppet, ansible, etc but for DNS

Configs

Credentials

creds.json

```
{
  "namecheap": {
    "TYPE": "NAMECHEAP",
    "apikey": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "apiuser": "myusername"
  },
  "cloudflare": {
    "TYPE": "CLOUDFLAREAPI",
    "accountid": "me@example.com",
    "apitoken": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  }
}
```

Constants

```
var addr_munro = IP('103.236.163.72')
```

Providers/Registrars

```
var provider_cloudflare = NewDnsProvider("cloudflare", "-");  
var provider_namecheap = NewDnsProvider("namecheap", "-");  
  
var registrar_namecheap = NewRegistrar("namecheap");
```


Domains

```
D("nerdcruft.net", registrar_namecheap,  
  DnsProvider(provider_namecheap),  
  DefaultTTL(1800),  
  
  A('@',      addr_munro),  
  A('munro',  addr_munro),  
  A('mail',   addr_munro),  
  
  CNAME('blog', 'munro.nerdcruft.net.'),  
  
  MX('@', 10, 'munro.nerdcruft.net.'),  
)
```

vhosts

```
var MUNRO_VHOST = [  
  A('@', addr_munro),  
  CNAME('mail', 'mail.nerdcruft.net.'),  
  CNAME('www', '@'),  
  MX('@', 10, 'mail.nerdcruft.net.')  
]  
  
D("nerdcruft.com", registrar_namecheap,  
  DnsProvider(provider_namecheap),  
  MUNRO_VHOST  
)
```

CloudFlare

```
var CF_PROXY_OFF = {"cloudflare_proxy": "off"};
var CF_PROXY_ON = {"cloudflare_proxy": "on"};

var MUNRO_VHOST = [
  A('@', addr_munro, CF_PROXY_ON),
  CNAME('mail', 'mail.nerdcruft.net.', CF_PROXY_OFF),
  CNAME('www', '@', CF_PROXY_ON)
]

D("nerdcruft.com", registrar_namecheap,
  DnsProvider(cloudflare),
  MUNRO_VHOST
)
```

Usage

```
./dnscontrol preview --domains nerdcrufft.com  
./dnscontrol push --domains nerdcrufft.com
```

Further Information

<https://dnscontrol.org/>

