

INSTITUTO FEDERAL

Norte de Minas Gerais

Campus Januária

Admin. Serviços de Redes

- AWS + Dynamic DNS -



AWS + DDNS

- Crie uma conta no serviço **NoIP**




[**https://www.noip.com/**](https://www.noip.com/)



AWS + DDNS

■ Crie um **hostname**

My No-IP > Nome de Hosts		
Criar hostname		
Nome de Host ▲	Last Update	IP / Alvo
 adrianoifnmg.ddns.net Active	Aug 18, 2023 11:48 BRT	44.202.60.60



AWS + DDNS

■ Crie instância AWS e instale o **Cliente DDNS No-IP**:

Dynamic DNS Update Client for Linux

Keep your current IP address in sync with your No-IP host or domain with our Dynamic Update Client (DUC).

With our quick [setup guide](#) for Linux DUC 3.3.0 you can be up and running in no time! Refer to No-IP Docker Repo to use the [Docker Image](#).

Download Now

Version 3.3.0

- ✓ Simple Design with Minimal Dependencies
- ✓ No Configuration File
- ✓ AWS Metadata Support for Public IP Built In
- ✓ Allow Updating to a Specific IP with `--ip-method static: <IP>`
- ✓ Uses Compatibility Protocol (nic/update)
- ✓ Run Command on IP Change

Installation


1. Download and install the linux DUC in terminal


```
wget --content-disposition https://www.noip.com/download/linux/latest
tar xf noip-duc_3.3.0.tar.gz
cd /home/$USER/noip-duc_3.3.0/binaries && sudo apt install ./noip-duc_3.3.0_amd64.deb
```
2. Once installed, run noip-duc to start the program.
You will want to explore the various options, so run `noip-duc --help` to see the available commands.
3. To login and send updates using DDNS Keys enter the following `noip-duc -g all.ddnskey.com -username <DDNS Key Username> --password <DDNS Key Password>`




AWS + DDNS



- Siga as orientações para criar uma chave de atualização DDNS...

 **Setup your DDNS Key**


Now that you've generated your keys you will need to add them to your DUC or DDNS Device.


Username / Email ⓘ
yf5f8n5 

☐ Device requires email username

Password ⓘ
.....  

Password is only shown once.

DDNS Key Hostname: ⓘ
all.ddnskey.com 

Friendly Name: ⓘ
group-hostnameexample  [edit](#)

Hostnames in DDNS Key: ⓘ
hostnameexample.ddns.net



AWS + DDNS

- Copie as informações da chave no arquivo de configuração local...

```
aws:~# sudo nano /etc/default/noip-duc
```

```
## DDNS Key Information
```

```
NOIP_USERNAME=dwyttaj
```

```
NOIP_PASSWORD=cDdhJtSYVv2W
```

```
## Comma separated list of hostnames and group names
```

```
NOIP_HOSTNAMES=adminredes.ddns.net
```



AWS + DDNS

- Para ligar o serviço...

```
aws:~# sudo systemctl start noip-dns.service
```

- Para executar o serviço durante a inicialização...

```
aws:~# sudo systemctl enable noip-dns.service
```

- Para observar o status do serviço...

```
aws:~# sudo systemctl status noip-dns.service
```



Para ligar o serviço

```
admin@ip-172-31-33-43: ~
Arquivo  Editar  Ver  Pesquisar  Terminal  Ajuda

admin@ip-172-31-33-43:~$ sudo systemctl status noip-duc.service
● noip-duc.service - No-IP Dynamic Update Client
   Loaded: loaded (/lib/systemd/system/noip-duc.service; enabled; preset: enabled)
   Active: active (running) since Sun 2024-10-06 18:19:54 UTC; 15min ago
     Main PID: 412 (noip-duc)
        Tasks: 1 (limit: 1137)
       Memory: 3.2M
          CPU: 6ms
      CGroup: /system.slice/noip-duc.service
              └─412 /usr/bin/noip-duc

Oct 06 18:19:54 ip-172-31-33-43 noip-duc[412]: [2024-10-06T18:19:54Z INFO noip_duc::public_ip] Attempting to get IP with method Dns(No-IP Anycas>
Oct 06 18:19:54 ip-172-31-33-43 noip-duc[412]: [2024-10-06T18:19:54Z INFO noip_duc::observer] got new ip; current=54.174.179.111, previous=0.0.0>
Oct 06 18:19:55 ip-172-31-33-43 noip-duc[412]: [2024-10-06T18:19:55Z INFO noip_duc::observer] update successful; current=54.174.179.111, previou>
Oct 06 18:19:55 ip-172-31-33-43 noip-duc[412]: [2024-10-06T18:19:55Z INFO noip_duc::observer] checking ip again in 5m
Oct 06 18:24:55 ip-172-31-33-43 noip-duc[412]: [2024-10-06T18:24:55Z INFO noip_duc::public_ip] Attempting to get IP with method Dns(No-IP Anycas>
Oct 06 18:24:55 ip-172-31-33-43 noip-duc[412]: [2024-10-06T18:24:55Z INFO noip_duc::observer] checking ip again in 5m
Oct 06 18:29:55 ip-172-31-33-43 noip-duc[412]: [2024-10-06T18:29:55Z INFO noip_duc::public_ip] Attempting to get IP with method Dns(No-IP Anycas>
Oct 06 18:29:55 ip-172-31-33-43 noip-duc[412]: [2024-10-06T18:29:55Z INFO noip_duc::observer] checking ip again in 5m
Oct 06 18:34:55 ip-172-31-33-43 noip-duc[412]: [2024-10-06T18:34:55Z INFO noip_duc::public_ip] Attempting to get IP with method Dns(No-IP Anycas>
Oct 06 18:34:55 ip-172-31-33-43 noip-duc[412]: [2024-10-06T18:34:55Z INFO noip_duc::observer] checking ip again in 5m

lines 1-20/20 (END)
```

aws:~# sudo systemctl status noip-duc.service



Trabalho Final da Disciplina

- Requisitos Avaliativos do Trabalho Final da Disciplina:
 - **Individual**
 - Instância AWS com Servidor WEB Apache2 ou NGINX.
 - Nome de Domínio vinculado dinamicamente ao IP da Instância (DDNS).
 - Host virtual correspondente ao nome de domínio hospedado no servidor WEB.
 - Página dinâmica (*back-end* com PHP ou Python)
 - BD opcional
 - Acesso seguro ao site (HTTPS), através da instalação de certificado provido por **Let's Encrypt**.