IPV4 KALKULATOR CIDR (SIPCALC)

1. update sistem

```
padli@raisa: ~
padli@raisa:~$ sudo apt-get update
```

2. install sipcalc

```
padli@raisa: ~
padli@raisa:~$ sudo apt-get install sipcalc
```

3. tes perhitungan CIDR

```
padli@raisa: ~
padli@raisa:~$ sipcalc 192.168.0.1/24
-[ipv4 : 192.168.0.1/24] - 0

[CIDR]
Host address            - 192.168.0.1
Host address (decimal)  - 3232235521
Host address (hex)      - C0A80001
Network address         - 192.168.0.0
Network mask            - 255.255.255.0
Network mask (bits)     - 24
Network mask (hex)      - FFFFFF00
Broadcast address       - 192.168.0.255
Cisco wildcard          - 0.0.0.255
Addresses in network    - 256
Network range           - 192.168.0.0 - 192.168.0.255
Usable range            - 192.168.0.1 - 192.168.0.254

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padli@raisa:~$
```

```
padli@raisa: ~

padli@raisa:~$ sipcalc 192.168.0.1/29
-[ipv4 : 192.168.0.1/29] - 0

[CIDR]
Host address           - 192.168.0.1
Host address (decimal) - 3232235521
Host address (hex)     - C0A80001
Network address        - 192.168.0.0
Network mask           - 255.255.255.248
Network mask (bits)    - 29
Network mask (hex)     - FFFFFFF8
Broadcast address      - 192.168.0.7
Cisco wildcard         - 0.0.0.7
Addresses in network   - 8
Network range          - 192.168.0.0 - 192.168.0.7
Usable range           - 192.168.0.1 - 192.168.0.6

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padli@raisa:~$
```

```
padli@raisa: ~

padli@raisa:~$ sipcalc 192.168.0.10/29
-[ipv4 : 192.168.0.10/29] - 0

[CIDR]
Host address           - 192.168.0.10
Host address (decimal) - 3232235530
Host address (hex)     - C0A8000A
Network address        - 192.168.0.8
Network mask           - 255.255.255.248
Network mask (bits)    - 29
Network mask (hex)     - FFFFFFF8
Broadcast address      - 192.168.0.15
Cisco wildcard         - 0.0.0.7
Addresses in network   - 8
Network range          - 192.168.0.8 - 192.168.0.15
Usable range           - 192.168.0.9 - 192.168.0.14

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padli@raisa:~$
```

4. cek subnet interface

```
padli@raisa: ~

padli@raisa:~$ sipcalc eth1
-[int-ipv4 : eth1] - 0

[CIDR]
Host address            - 192.168.1.250
Host address (decimal)  - 3232236026
Host address (hex)      - C0A801FA
Network address         - 192.168.1.0
Network mask            - 255.255.255.0
Network mask (bits)     - 24
Network mask (hex)      - FFFFFF00
Broadcast address       - 192.168.1.255
Cisco wildcard          - 0.0.0.255
Addresses in network    - 256
Network range           - 192.168.1.0 - 192.168.1.255
Usable range            - 192.168.1.1 - 192.168.1.254

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padli@raisa:~$
```

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