

Alexandra The Networking Bot

This is a demo of the homework done for the 4th homework of the Automation Track provided by Cisco Incubator Program 9.0.

Alexandra is a nerd, but also has a quirky personality. She loves to help people with subnetting and troubleshooting.

Alexandra Bot uses the following APIs:

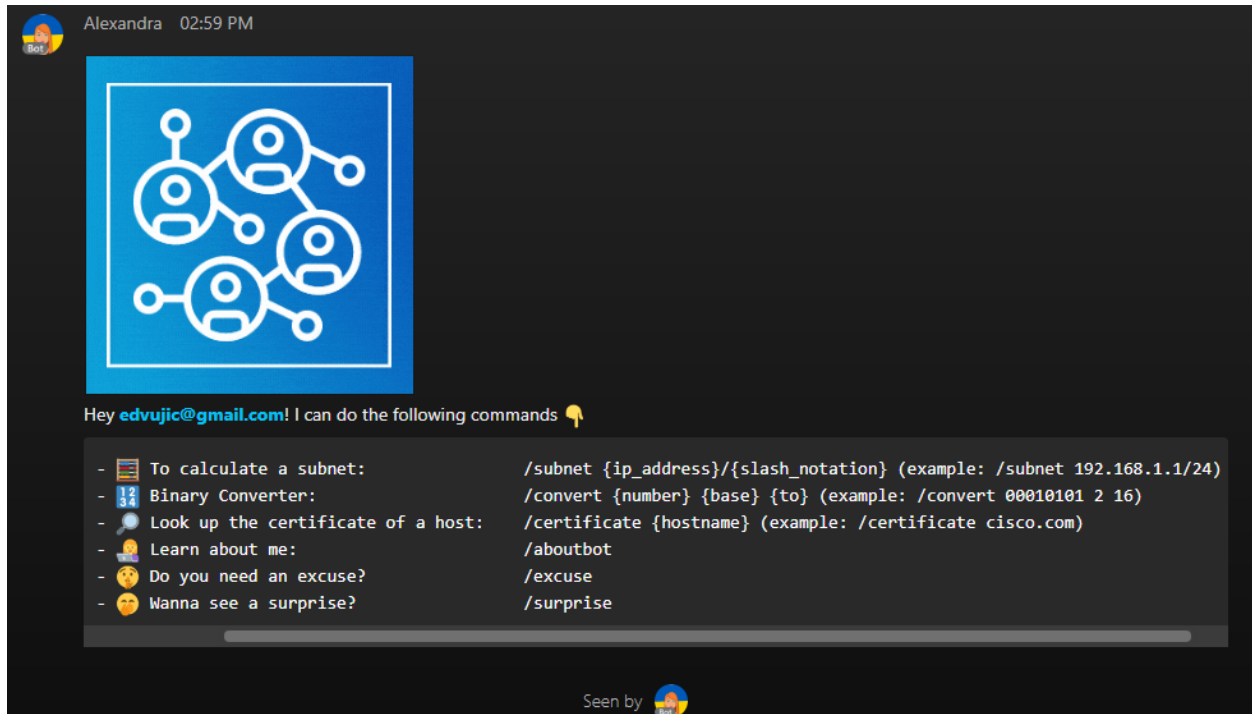
- <https://networkcalc.com/>
- <https://excuser.herokuapp.com/>
- <https://api.chucknorris.io/#!>

Alexandra can be utilized with the following commands:

- `/help`
- `/subnet {ip_address}/{slash_notation}`
- `/convert {number} {base} {to}`
- `/certificate {hostname}`
- `/aboutbot`
- `/excuse`
- `/surprise`

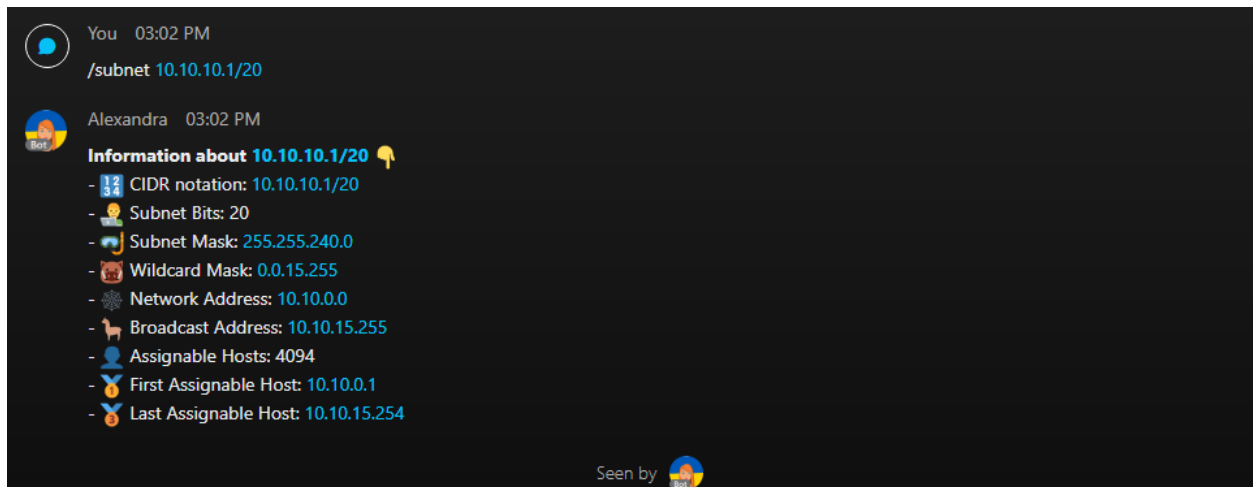
/help command

Provides general information about bot's capabilities. It includes a .gif that represents networking.



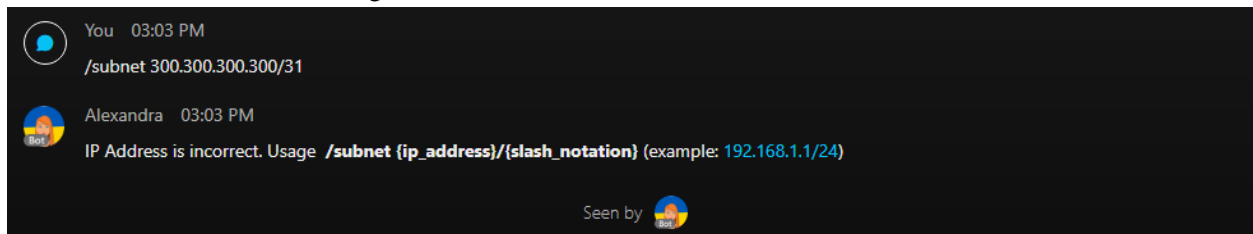
`/subnet {ip_address}/{slash_notation} command`

Provides subnetting information related to a given CIDR notation. The information is given in the example below.

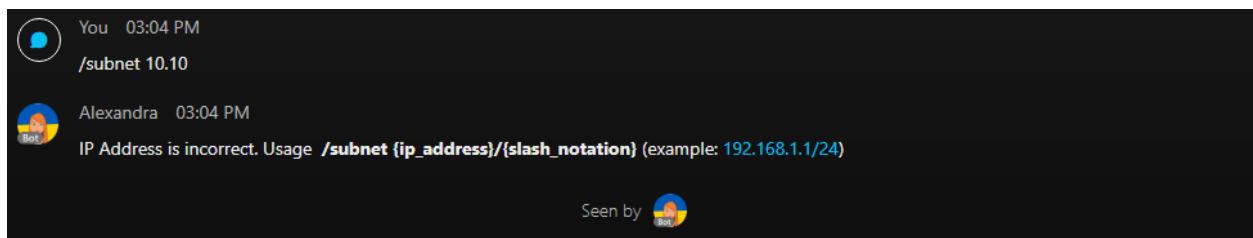


Exception handling is also provided as given in the examples below:

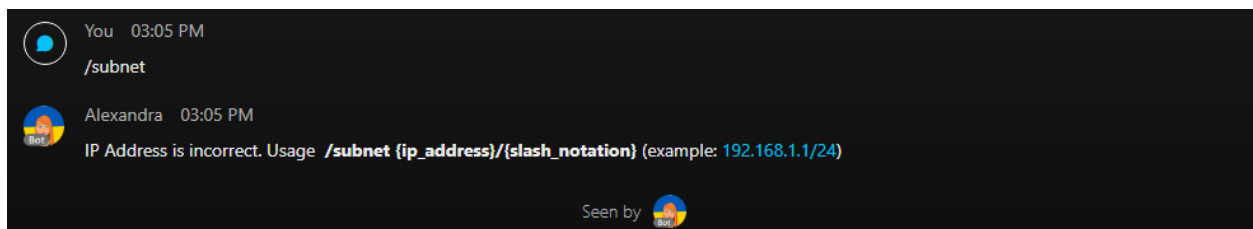
- user enters non-existing IP address



- user enters an incomplete IP address

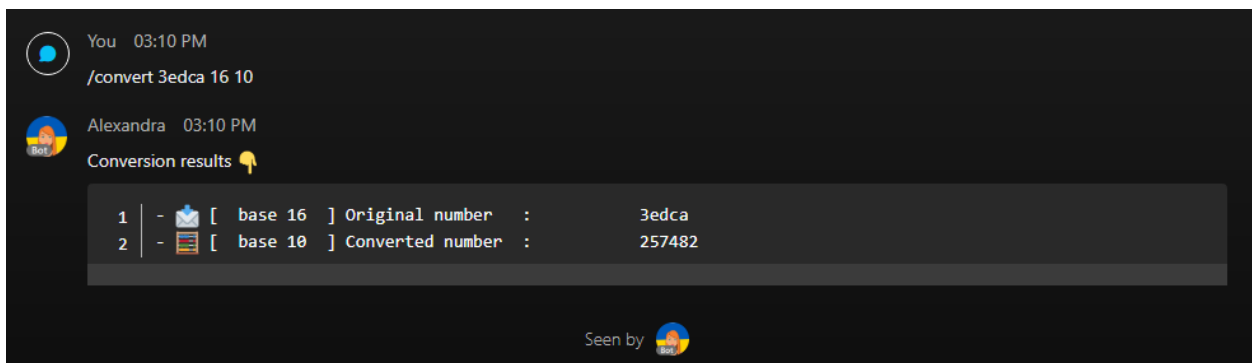
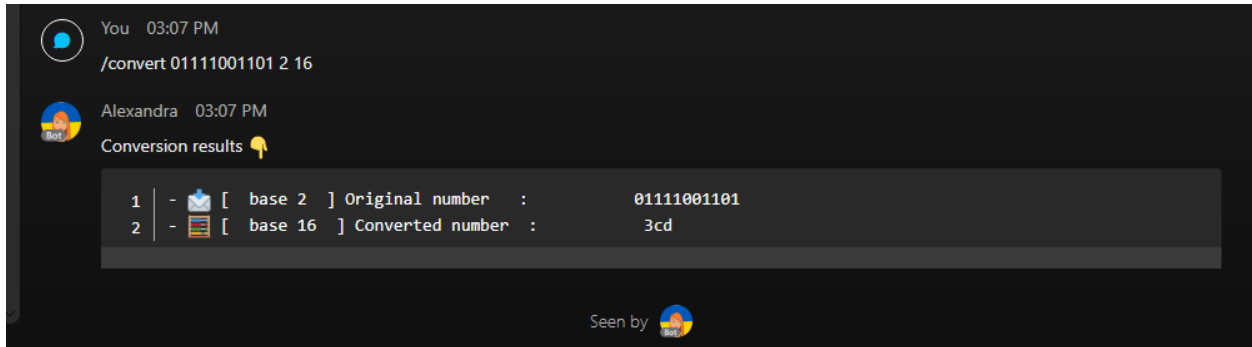


- user does not enter an IP address



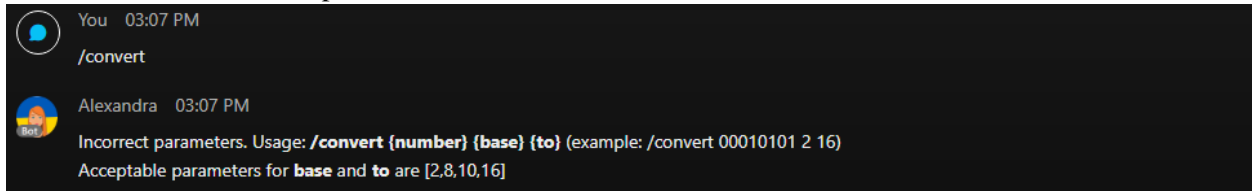
/convert {number} {base} {to} command

Converts a number from its actual base to the goal base. Radices available are 2, 8, 10, 16.

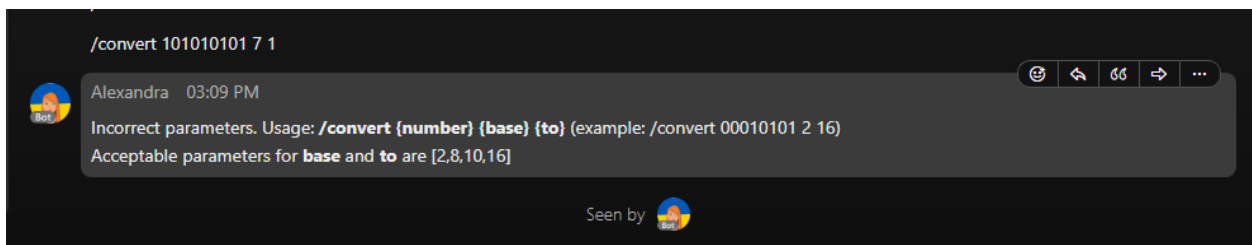


Exceptions are handled as shown below.

- command without parameters



- incorrect base values



`/certificate {hostname}`

Provides information about a hostname's credentials and DNS settings. Example is given below.

You 03:10 PM
`/certificate cisco.com`

Alexandra 03:11 PM
Information about `cisco.com` 📌

1	- 🌐 Hostname:	cisco.com
2	- 🏠 Port:	443
3	- 🏠 Issued by:	HydrantID Server CA 01
4	- 📄 Fingerprint:	0D:DD:B6:CE:30:B0:0B:D7:5A:DB:19:8B:2D:29:59:F6:F9:47:E4:2C
5	- 🌐 DNS:	72.163.4.185
6	- 🕒 TTL:	3388

Seen by 🤖

You 03:11 PM
`/certificate netacad.com`

Alexandra 03:11 PM
Information about `netacad.com` 📌

1	- 🌐 Hostname:	netacad.com
2	- 🏠 Port:	443
3	- 🏠 Issued by:	Sectigo RSA Domain Validation Secure Server CA
4	- 📄 Fingerprint:	A1:08:9F:BF:C8:C8:4A:CF:3C:BA:1D:3A:D8:D7:8A:D6:0A:3D:84:94
5	- 🌐 DNS:	54.165.95.219
6	- 🕒 TTL:	59

Seen by 🤖

Exception handling is shown below.

You 03:12 PM
`/certificate`

Alexandra 03:12 PM
Incorrect parameters. Usage `/certificate {hostname}`.

Seen by 🤖

You 03:13 PM
`/certificate cisco`

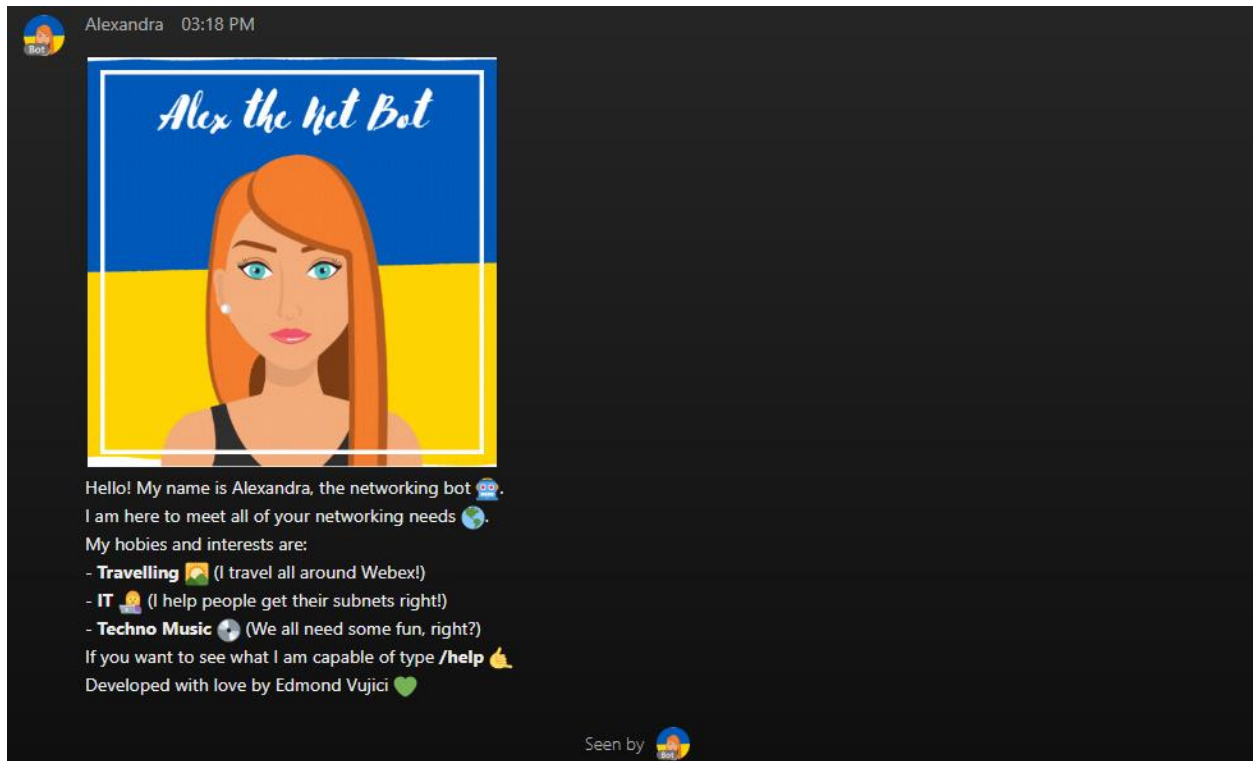
Alexandra 03:13 PM
Incorrect parameters. Usage `/certificate {hostname}`.

Seen by 🤖

Edmond Vujici
[ALEXANDRA THE NETWORKING BOT]

/aboutbot command

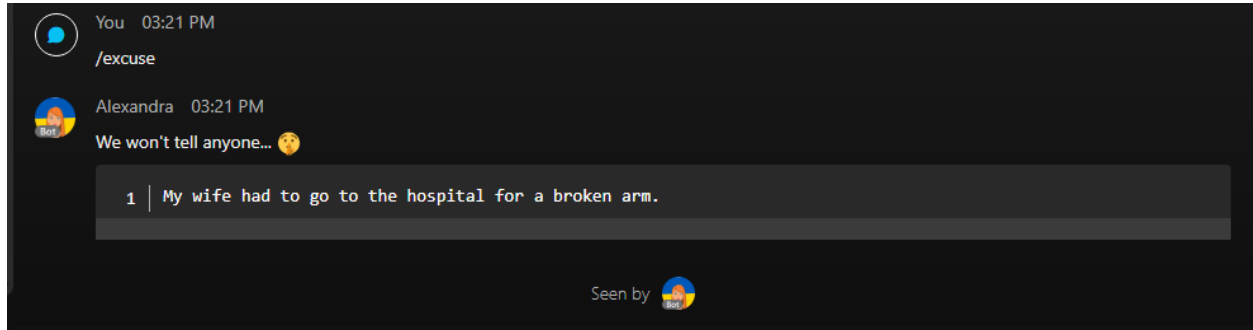
Shows general information about Alexandra with some personalization elements. Alexandra's .gif portrait is shown in this command.



Edmond Vujić
[ALEXANDRA THE NETWORKING BOT]

/excuse command

Sometimes we all need an excuse to get out of a situation, right? Don't worry, Alexandra has got you covered when you cannot come up with an excuse. She won't tell anyone.



/surprise command

Provides your daily dose of Chuck Norris infused jokes with an appropriate .gif.

