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}`
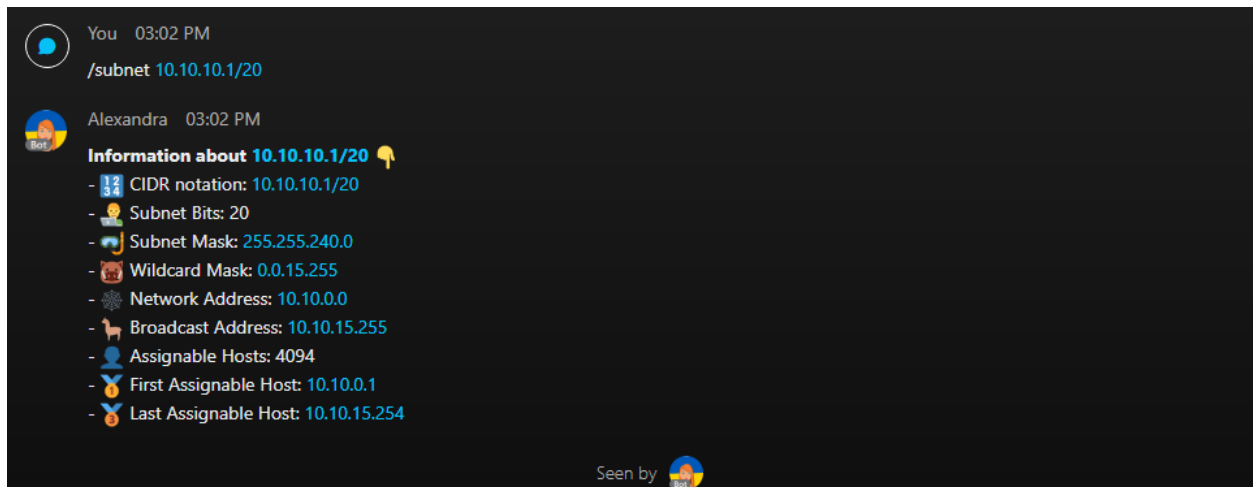- `/aboutbot`
- `/excuse`
- `/surprise`

/help command

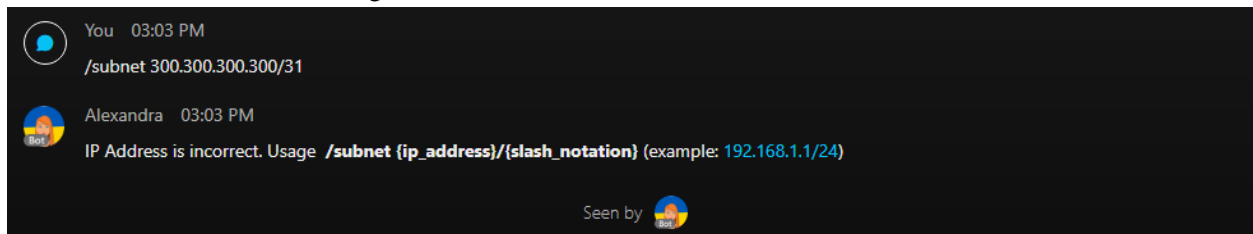Provides general information about bot's capabilities. It includes a .gif that represents networking.
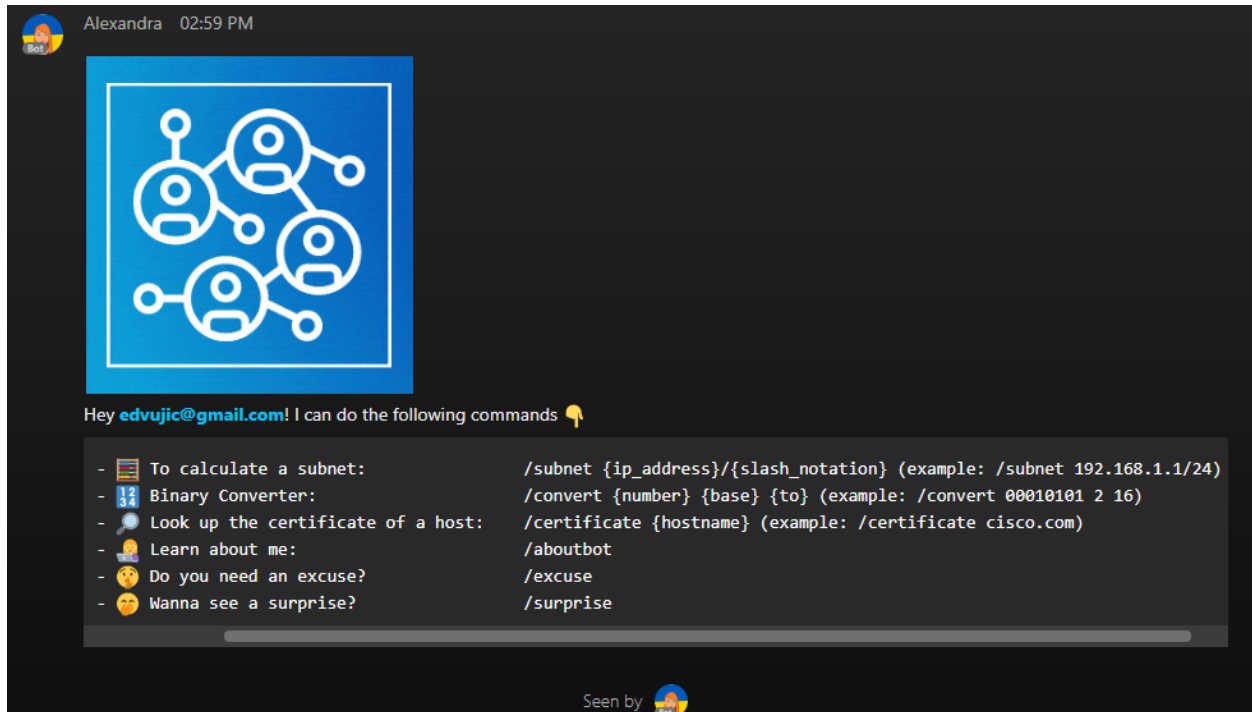
/subnet {ip_address}/{slash_notation} command

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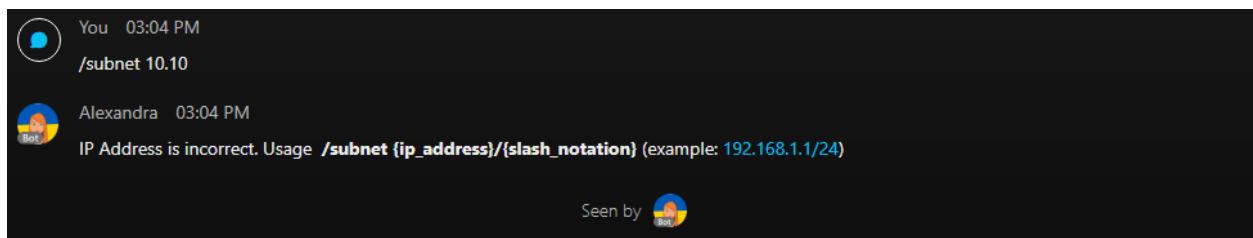

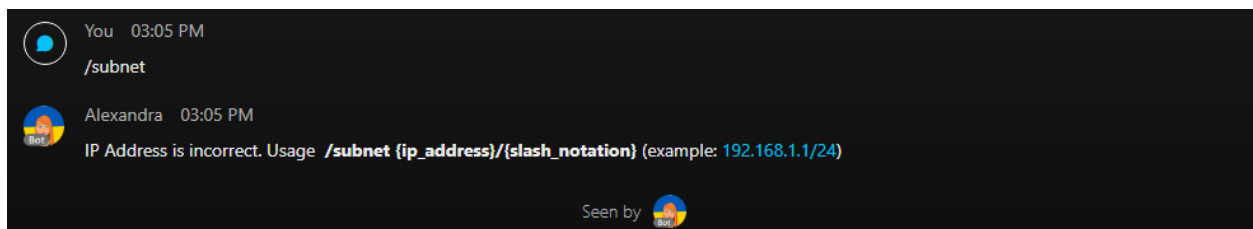Exception handling is also provided as given in the examples below:

- user enters non-existing IP address
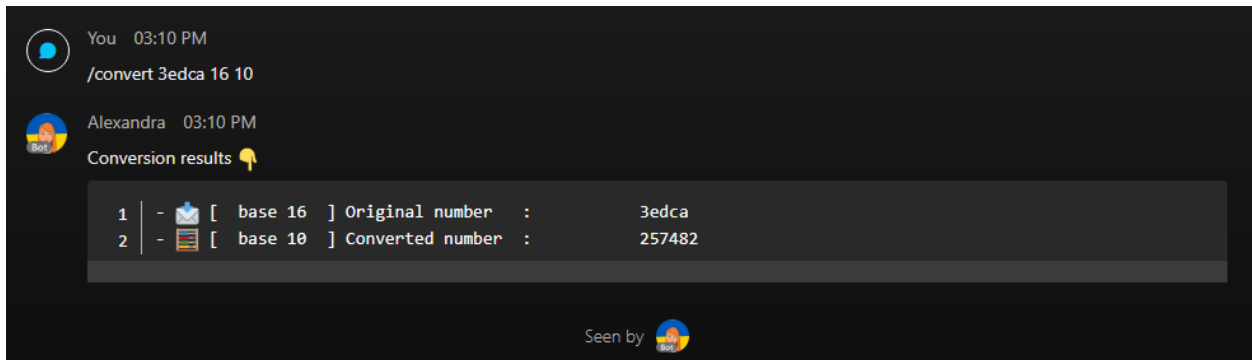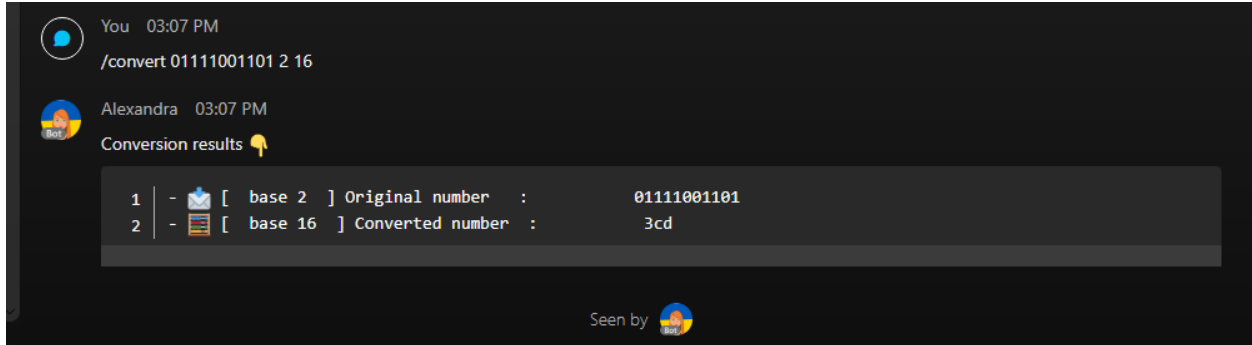

- user enters an incomplete IP address

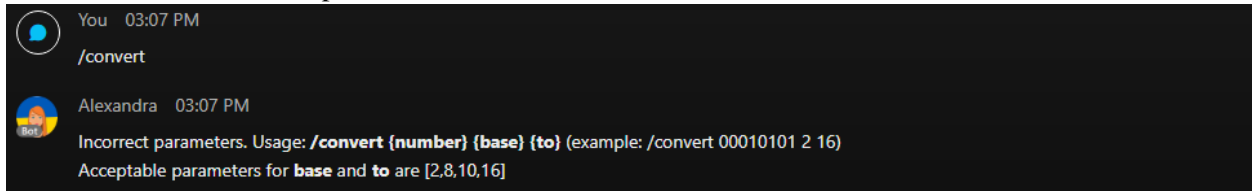- user does not enter an IP address

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

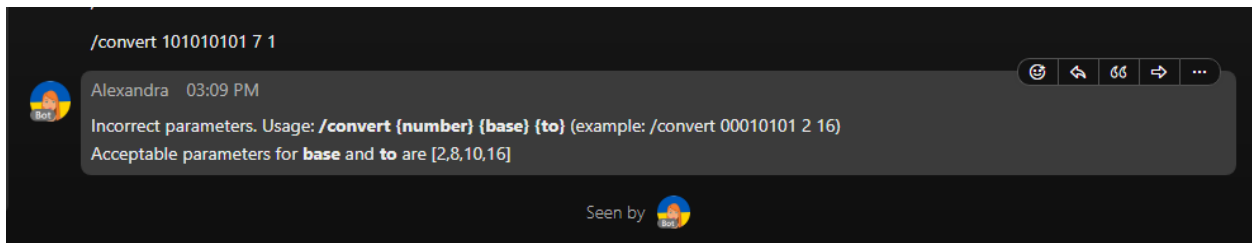Converts a number from its actual base to the goal base. Radices available are 2, 8, 10, 16.

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.

Exception handling is shown below.

/aboutbot command

Shows general information about Alexandra with some personalization elements. Alexandra's .gif portrait is show in this command.
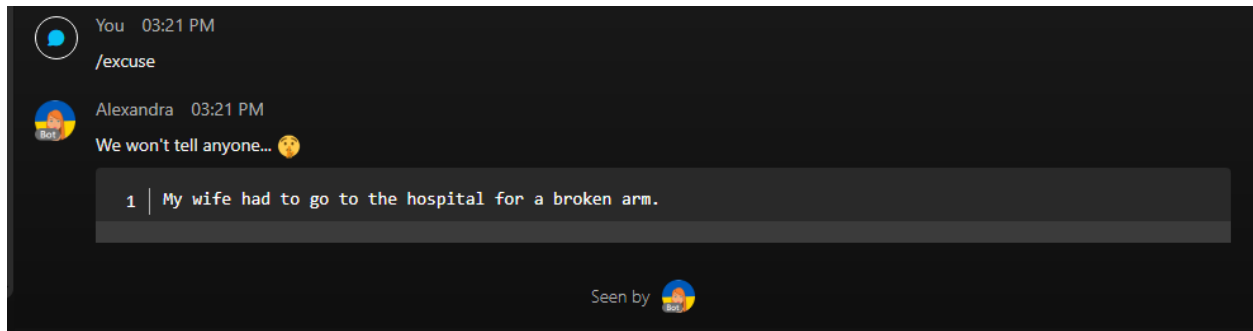
`/excuse command`

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.