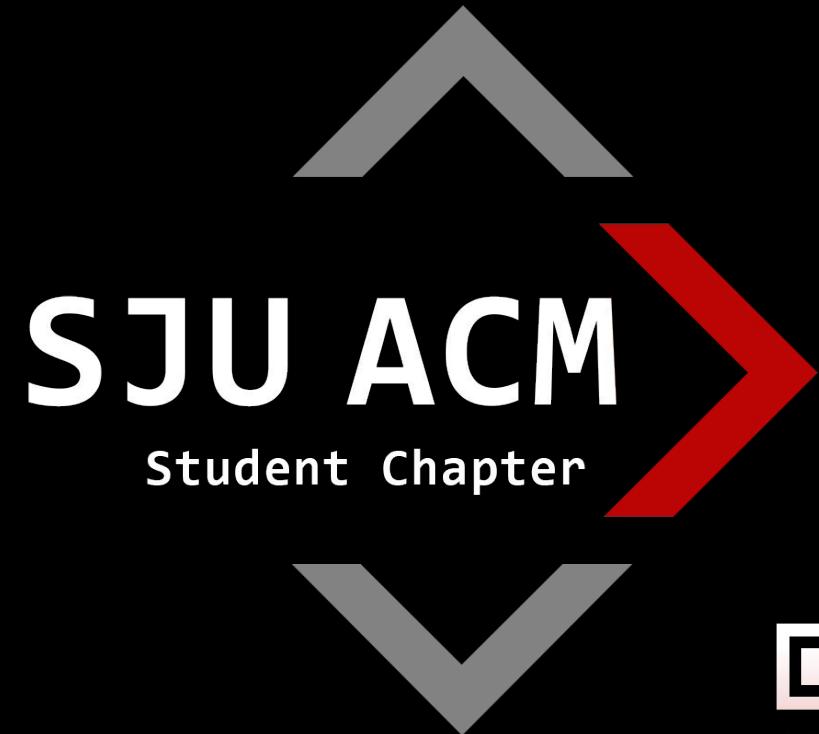


SPRING 2023 KICKOFF

SJU ACM STUDENT CHAPTER



SJU ACM
Student Chapter

SIGN IN FORM:





WHO WE ARE

- ST. JOHN'S UNIVERSITY'S PREMIER ORGANIZATION FOR BOTH COMPUTER SCIENCE & CYBER SECURITY
- DEDICATED TO PROVIDING STUDENTS WITH THE NECESSARY MATERIAL TO SUCCEED IN A FUTURE CAREER IN TECH
- WE LOOK TO PROVIDE MEMBERS WITH VARIOUS OPPORTUNITIES SUCH AS CODING COMPETITIONS, TECHNICAL TALKS, AND MENTORING SESSIONS BY EXPERIENCED PROFESSIONALS





WHAT IS ACM?

- THE ASSOCIATION FOR COMPUTING MACHINERY (ACM) IS THE WORLD'S LARGEST SCIENTIFIC AND EDUCATIONAL COMPUTING SOCIETY WITH OVER 100,000 STUDENT AND PROFESSIONAL MEMBERS
- UNITING EDUCATORS, RESEARCHERS, AND PROFESSIONALS TO SHARE RESOURCES AND OPPORTUNITIES TO ADVANCE THE FIELD OF COMPUTING AS BOTH A SCIENCE AND PROFESSION



Association for
Computing Machinery



NYC ACM STUDENT CHAPTERS

GET TO NETWORK WITH STUDENTS INVOLVED IN ACM

STUDENT CHAPTERS AT:

- NYU
- CITY COLLEGE
- HOFSTRA
- NYIT
- QUEENS COLLEGE

PARTICIPATE IN CODING COMPETITIONS AND CYBER
HACKATHONS! SPEAK WITH US AFTER IF THIS
INTERESTS YOU!

Find a Chapter Near You

North America USA

New York ACM Student Chapter

St. John's University ACM Student Chapter
Charter date: Feb 01, 2021
Chapter ID: 186908
Chapter type: ACM Student Chapter
Location: Queens, New York, USA
Email: sjusata@gmail.com

Keyboard shortcuts | Map data ©2021 Google | Terms of Use

ACM Student Chapter
22 Active Chapters

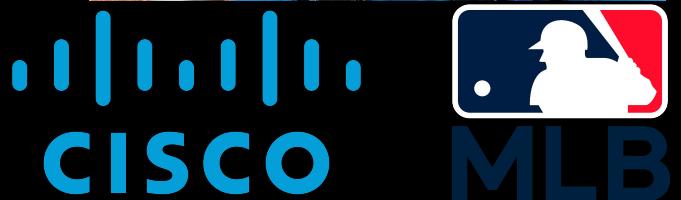


INTRODUCING OUR E-BOARD



RAYMOND | PRESIDENT

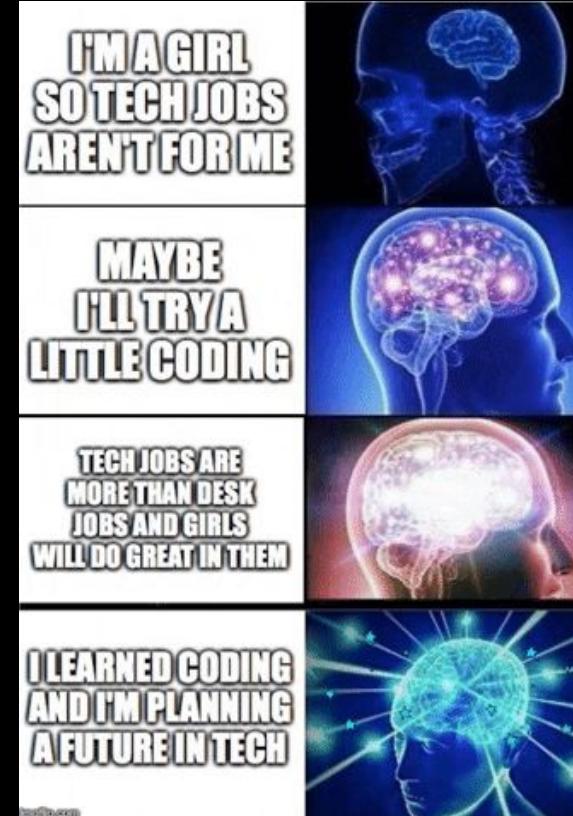
- JUNIOR MAJORING IN CYBER SECURITY SYSTEMS
 - ASPIRING TO ACQUIRE MBA THROUGH THE 5-YEAR DUAL DEGREE
- INCOMING SUMMER 2023 TECHNOLOGY CONSULTING - CYBERSECURITY INTERN AT EY
- TECHNOLOGY SERVICES INTERN AT MLB
 - STARTED AS A SUMMER 2022 INTERN AND CONTINUE TO WORK PART-TIME DURING THE SEMESTER
- EXTERNSHIP AND INTERNSHIP WITH CISCO
 - NON-TECHNICAL EXPERIENCE THAT FOCUSED ON CAREER-BUILDING THROUGH NETWORKING WITH INDUSTRY PROFESSIONALS
- TECHNICAL BACKGROUND BEGAN IN HIGH SCHOOL
 - PARTICIPATED IN COMPETITIONS AND EARNED CERTIFICATIONS
- HUGE METS FAN (UNFORTUNATELY)





TEUTA | VICE PRESIDENT

- SENIOR HERE AT ST. JOHN'S UNIVERSITY
 - MAJORING IN COMPUTER SCIENCE WITH A MINOR IN MATHEMATICS
- STRONG PASSION FOR EXPANDING THE STEM SPACE
 - ORIGINALLY ENROLLED AS A BIOMEDICAL SCIENCES STUDENT, SWITCHED TO C.S. SOPHOMORE YEAR. FOUNDED THE WOMEN IN STEM CLUB TO PROVIDE WOMEN WITH A STRONGER SUPPORT SYSTEM.
- DID AN INTERNSHIP AT DELOITTE AS A STRATEGY ANALYST, CURRENTLY INTERNING AT SAP AS A TECHNICAL PROJECT MANAGER. CURRENTLY WORKING ON RESEARCH UNDER DR. CHRISTOFOROU.
- CURRENT CAREER GOAL IS TO BE A TECHNICAL PM FULL TIME!



JAKE | TREASURER

- JUNIOR MAJORING IN CYBERSECURITY WITH A MINOR IN FORENSICS
- INTERESTED IN BOTH PROGRAMMING AND CYBER AND WOULD LIKE TO INCORPORATE BOTH INTO MY FUTURE CAREER
- INTERNED FOR CON EDISON CLEAN ENERGY BUSINESSES OVER THE SUMMER AS A PART OF THEIR IT DEPARTMENT
- INTERNED FOR NEW JERSEY COURTS LAST SEMESTER AS A PART OF THEIR INFORMATION SECURITY TEAM
- HUGE BASEBALL FAN





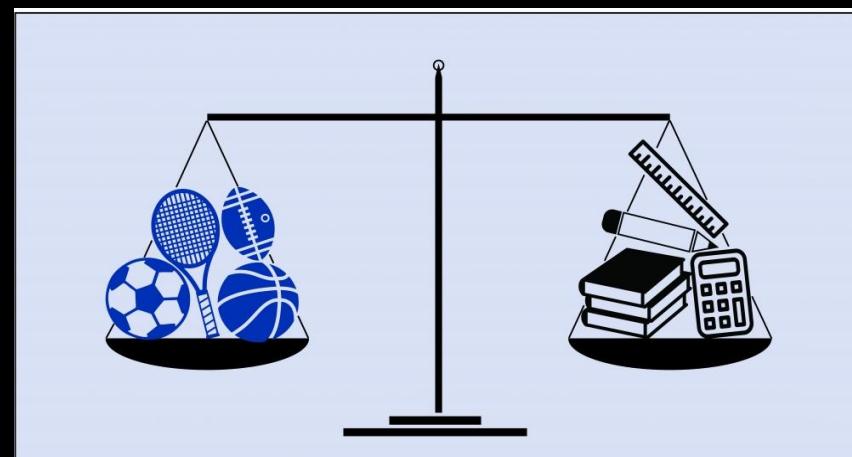
DAVID | INFORMATION OFFICER

- SOPHOMORE PURSUING A B.S. IN CYBER SECURITY
- BEEN STUDYING CYBER SECURITY FOR THE PAST 4 YEARS
- SECOND YEAR AS A PART OF SJU ACM
- RED TEAM
- INTERESTED IN INTERNSHIP OPPORTUNITIES RELATED TO ALL PARTS OF CYBER SECURITY
- CURRENTLY PURSUING OSCP



IGNACIO | COMMITTEE CHAIR

- SENIOR STUDENT-ATHLETE MAJORING IN COMPUTER SCIENCE & MATHEMATICS
- STRONG INTEREST IN FUTURE APPLICATIONS OF TECH: AI, WEB 3.0, DEFI 2.0
- PASSIONATE ABOUT COMBINING SPORTS AND EDUCATION, LEADING TO HIS MEMBERSHIPS WITH BOTH THE ST. JOHN'S MEN'S SOCCER TEAM AND ACM
- INTERESTS IN DATA MANAGEMENT SYSTEMS AND DATA ANALYSIS





KATARINA | SOCIAL MEDIA COORDINATOR

- SENIOR IN COMBINED DEGREE PROGRAM
 - B.S. CYBER SECURITY SYSTEMS & M.S. CYBER AND INFORMATION SECURITY
- INTERNED FOR DSTILLERY AS A TECHNOLOGY INTERN OVER THE SUMMER
- INTERNED LAST SEMESTER FOR THE NEW JERSEY COURTS AS A PART OF THE INFORMATION SECURITY TEAM
- INCOMING EY TECHNOLOGY RISK INTERN FOR SUMMER 2023
- STUDIED ABROAD LAST SPRING AS A PART OF THE WESTERN EUROPE PROGRAM
- OTHER HOBBIES INCLUDE: ROCK CLIMBING, THEATRE TECH, CROCHET, AND BAKING

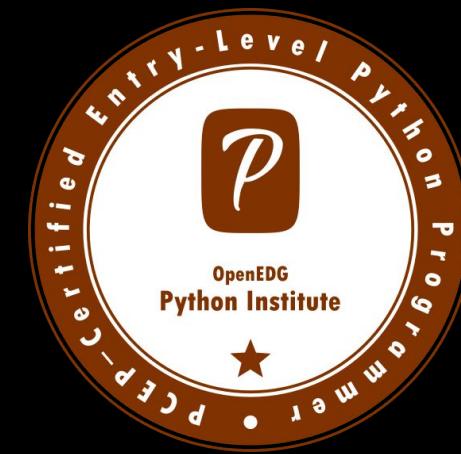


dstillery



TOMAS | FRESHMAN REPRESENTATIVE

- **FRESHMAN MAJORING IN COMPUTER SCIENCE**
 - ASPIRING TO ACQUIRE MBA THROUGH 5-YEAR DUAL DEGREE PROGRAM
- **CURRENTLY WORK FOR GENIUS GEMS, LLC AS A JUNIOR ASSOCIATE**
 - WE OFFER THE WORLD'S LARGEST COLLECTION OF MAGNETIC TILES, AS WELL AS CLASSES, SUMMER CAMPS, FIELD TRIPS FOR SCHOOLS, BIRTHDAY PARTIES FOR KIDS, AND MORE!
- **CURRENTLY WORKING ON:**
 - BECOMING PCEP CERTIFIED
 - CERTIFIED ENTRY-LEVEL PYTHON PROGRAMMER
 - TWITTER BOT
 - BASEBALL-RELATED TWITTER BOT: @SEASONRANDOM
- **HOBBIES/INTERESTS:**
 - SPORTS
 - CODING
 - TRAVELING



MLBRandomSeasonSimBot
9 Tweets

Edit profile

MLBRandomSeasonSimBot
@SeasonRandom

Creating random baseball players, one tweet at a time (LIVE) | Created by @TomasSantos | Suggestions? DM my main page or email me: seasonrandom@gmail.com

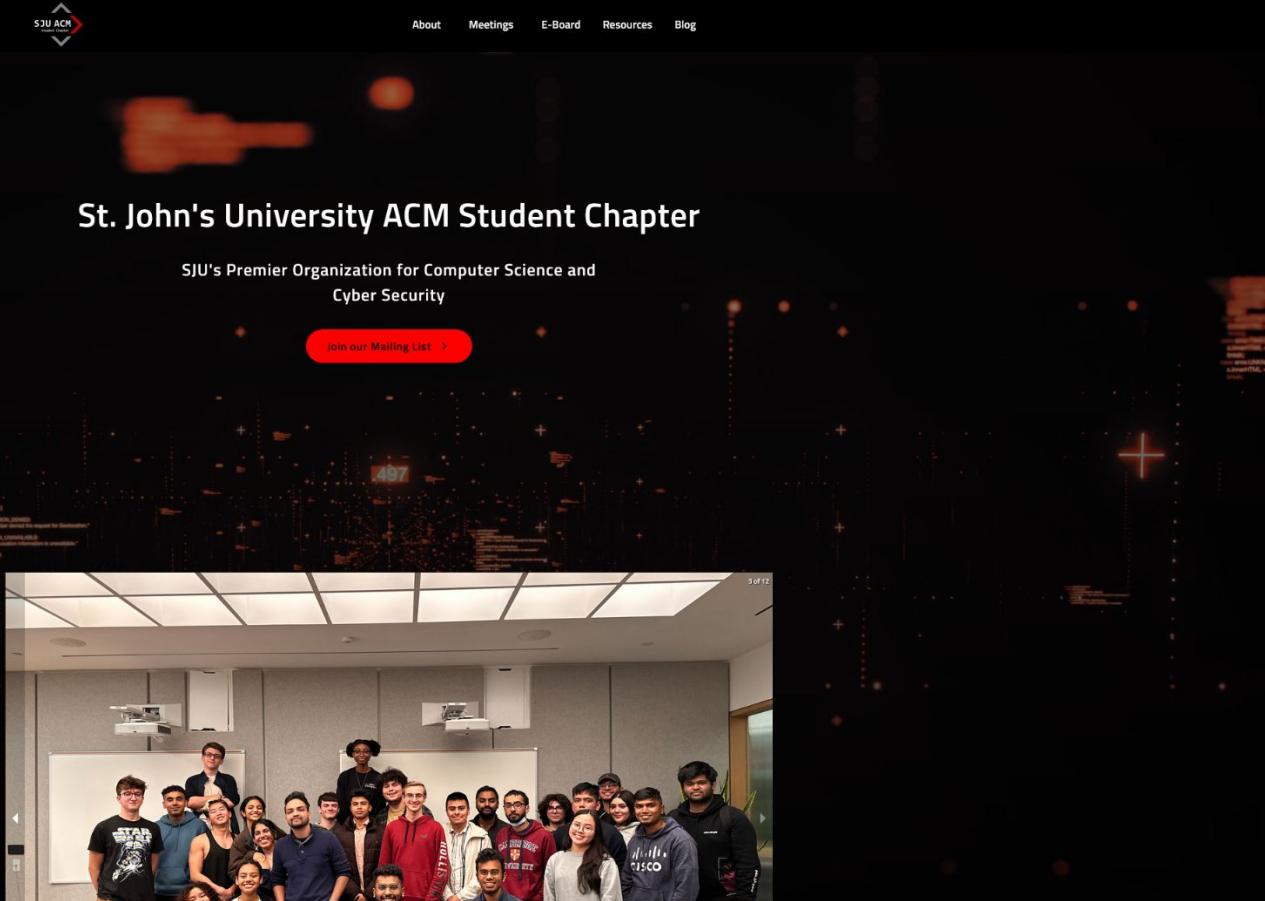
8 Following 13 Followers

Tweets Tweets & replies Media Likes

SJU ACM RESOURCES



SJU ACM WEBSITE

A screenshot of the St. John's University ACM Student Chapter website. The header features the SJU ACM logo and navigation links for About, Meetings, E-Board, Resources, and Blog. The main content area has a dark background with orange glowing particles. It displays the chapter's name, "St. John's University ACM Student Chapter", and its tagline, "SJU's Premier Organization for Computer Science and Cyber Security". A red button labeled "Join our Mailing List" is visible. Below the text is a large photograph of a group of approximately 25 students standing together in a room with a whiteboard and ceiling lights.

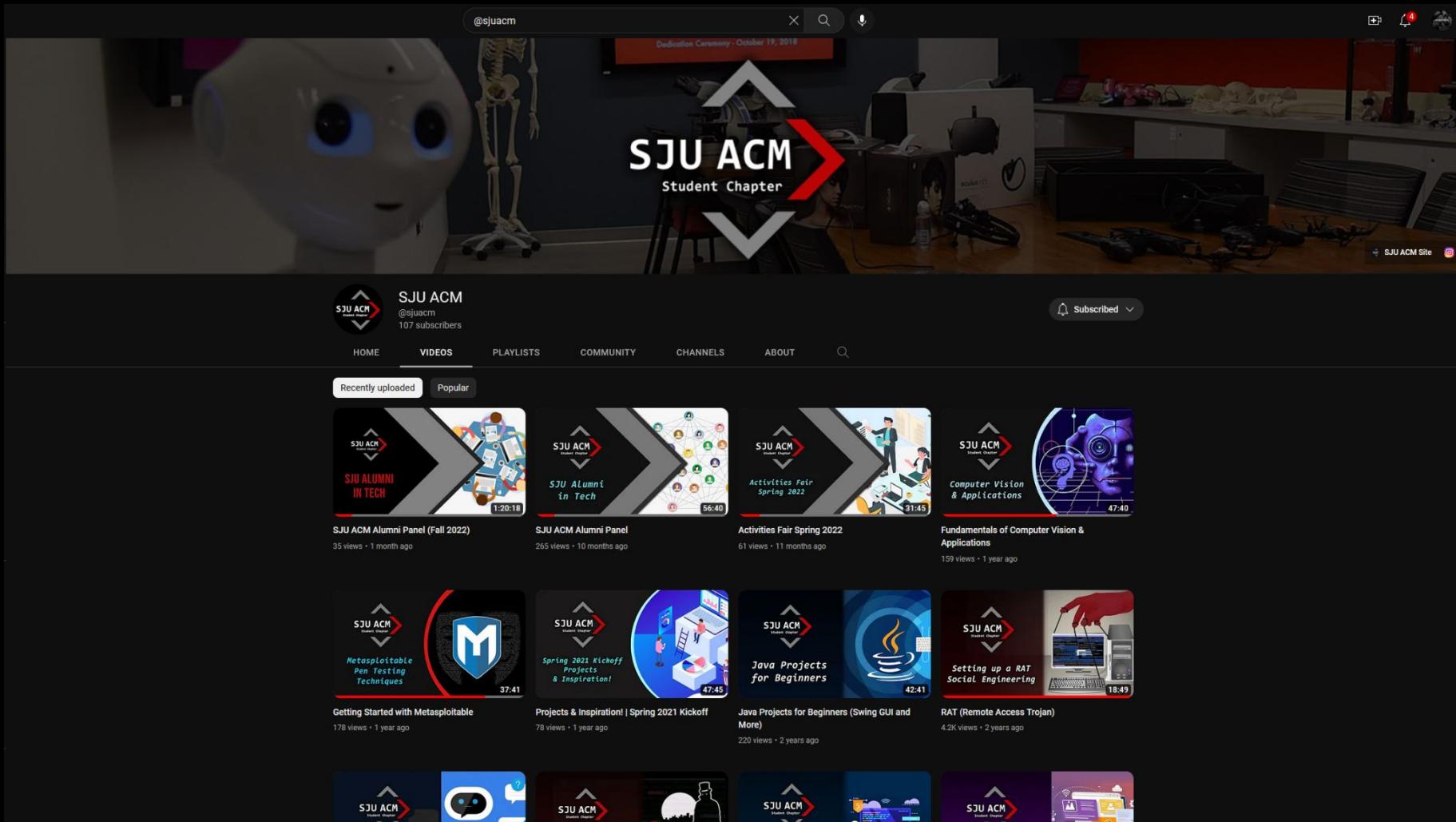


www.sjuacm.com





SJU ACM YOUTUBE



The screenshot shows the SJU ACM YouTube channel page. At the top, there's a banner for the "Dedication Ceremony - October 19, 2018". Below it, the channel header features the SJU ACM logo with "Student Chapter" underneath. The channel has 107 subscribers and is marked as "Subscribed". The main content area displays a grid of recently uploaded videos:

- SJU ALUMNI IN TECH** (1:20:18) - 35 views, 1 month ago
- SJU ACM Alumni Panel (Fall 2022)** (1:20:18) - 35 views, 1 month ago
- SJU ACM Alumni Panel** (56:40) - 265 views, 10 months ago
- Activities Fair Spring 2022** (31:45) - 61 views, 11 months ago
- Computer Vision & Applications** (47:40) - 159 views, 1 year ago
- Fundamentals of Computer Vision & Applications** (47:40) - 159 views, 1 year ago
- Metasploitable Pen Testing Techniques** (37:41) - 178 views, 1 year ago
- Spring 2021 Kickoff Projects & Inspiration!** (47:45) - 78 views, 1 year ago
- Java Projects for Beginners** (42:41) - 220 views, 2 years ago
- Setting up a RAT Social Engineering** (18:49) - 4.2K views, 2 years ago
- Getting Started with Metasploitable** (37:41) - 178 views, 1 year ago
- Projects & Inspiration! | Spring 2021 Kickoff** (47:45) - 78 views, 1 year ago
- Java Projects for Beginners (Swing GUI and More)** (42:41) - 220 views, 2 years ago
- RAT (Remote Access Trojan)** (18:49) - 4.2K views, 2 years ago



@SJUACM



SJU ACM GITHUB

- **VIEW ALL THE SOURCE CODE FOR DOZENS OF PROJECTS RANGING FROM TOPICS IN COMPUTER VISION, MACHINE LEARNING, WEB SCRAPING, NLP, WEB DEVELOPMENT, AND MORE!**
- **THE SJU ACM WEBSITE AND ITS SOURCE CODE IS FEATURED ON OUR GITHUB**
- **VIEW THE MOST RECENT ADDITION FROM OUR HEADSTARTER HACKATHON - VIEW THE PROJECTS THAT GOT 1ST AND 2ND PLACE!**

The screenshot shows the GitHub profile for the SJU ACM repository. At the top, there's a navigation bar with links for Product, Solutions, Open Source, Pricing, a search bar, and options to Sign in or Sign up. Below the header, the repository details are shown: SJU ACM (The GitHub organization of St. John's University's ACM Student Chapter!), 6 followers, United States of America, https://www.sjuacm.com, sjuacm@gmail.com. The main content area is divided into sections: Pinned, People, Top languages, and Repositories.

Pinned:

- Machine-Learning-Applications (Public) - An overview of various projects involving real life applications of Machine Learning! (Jupyter Notebook)
- Job-Listing-Scraper (Public) - Speed up your job application process with python! Gain access to hundreds of job listings with direct URLs to apply for each position in seconds. (Jupyter Notebook)
- Computer-Vision-Applications (Public) - Overview of real life applications and various projects involving computer vision & deep learning! (Jupyter Notebook)
- Technical-Interview-Prep (Public) - A full guide on how to prepare for technical interviews! (Jupyter Notebook)
- How-To-Use-Git-And-Github (Public) - A guide on how to utilize Git & Github for all your software needs!
- Resume-Matcher (Public) - See how your resume would stack up against an employer's ATS system! Quantify the text in your resume with NLP to calculate how good of a match you are with an internship position (Python)

Repositories:

- Website (Public) - St. John's University ACM Student Chapter Official Website (JavaScript)
- Headstarter-Hackathon (Public) - Headstarter Hackathon (Jupyter Notebook)
- TwitterBot (Public) - Twitter Bot for a variety of different functions for user engagement (Python)
- Machine-Learning-Applications (Public) - An overview of various projects involving real life applications of Machine Learning! (Jupyter Notebook)

[HTTPS://GITHUB.COM/SJUACM](https://github.com/sjuacm)

SJU ACM DISCORD AND INSTAGRAM



SJU ACM Student Chapter

SERVER

- # welcome
- # announcements
- # general-chat
- # memes
- # board-chat
- # committee-chat
- # alumni-chat
- # secret-alumni-chat
- # among-us-tournament

CYBER

- # classes
- # rants
- # resources
- # jobs-and-careers
- # competition-chat

COMPSCI

- # classes
- # rants
- # resources
- # jobs-and-careers
- # competition-chat

VOICE CHANNELS

- General Voice Chat
- Board Voice Chat
- Alumni Voice Chat
- Competition
- Tutoring
- AFK
- Among Us 1
- Among Us 2

resources

Faizan 01/08/2023 2:47 PM

not even kidding
it got so specific and provided the exact code

Adoni 12/08/2022 2:47 PM

Should we continue this in #general-chat since we are in #resources lol

Adoni 12/08/2022 2:47 PM

@Faizan it got so specific and provided the exact code

In one query?

Adoni 01/08/2023 10:04 AM

50 Awesome ChatGPT Prompts

https://www.linkedin.com/posts/mengyaowang11_chatgpt-activity-7017082920209108992-BBOU?utm_source=share&utm_medium=copy_link

Alex Wang on LinkedIn: ChatGPT | 177 comments

A collection of prompt examples to be used with the ChatGPT model.

Have fun! :)

*ChatGPT is the third version of a free AI chatbot launched by OpenAI... | 177 comments on LinkedIn

Posted on LinkedIn

Faizan 01/12/2023 4:25 PM

Really useful chrome extensions for chatgpt

<https://chrome.google.com/webstore/detail/chatgpt-for-google/jgjaecdkonaoafenlkkkimbaopkbif/related>

<https://chrome.google.com/webstore/detail/webchatgpt/lpfemecodjbpieinkklglpmhngfcn/related>

ChatGPT for Google

Display ChatGPT response alongside search engine results

WebChatGPT

Augment your ChatGPT prompts with relevant results from the web.

Message #resources

Instagram

sjuacm

Follow Message ...

178 posts 503 followers 208 following

SJU ACM Student Chapter

Science, Technology & Engineering

St. John's University's premier Computer Science & Cyber Security Club

Website, Discord, and YouTube

linktr.ee/sjuacm

Teuta Internsh Website Tom SWE Day Faizan Internsh Opportunities Alumni Panel LinkedIn

POSTS REELS TAGGED

MEET SJU ACM'S 2022-2023 EBOARD

SEMESTER KICKOFF

LIFE AFTER SJU: HOW TO BUILD YOUR CAREER IN TECH

HACKING WITH METASPLOIT

FALL 2022 ALUMNI PANEL

CASE STUDY INTERVIEWS

SCAN THE QR CODE FOR THE INVITE!

@SJUACM





UPCOMING MEETINGS



PHISHING LAB

INTRODUCTION TO MALWARE DEVELOPMENT

TWITTER BOT

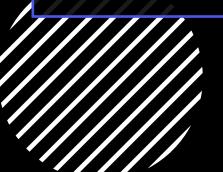
EY TECHNOLOGY CONSULTING PANEL

NETWORKING CHALLENGE

CAPTURE THE FLAG

• PRIZES WILL BE AVAILABLE!

INTRO TO ACTIVE DIRECTORY





UPCOMING EVENTS

SPRING 2023 ACTIVITIES FAIR

- JANUARY 30TH

CYBER COMPETITION INFORMATION SESSION

- FEBRUARY 9TH

DISCOVER PROTIVITI

- OPPORTUNITY FOR SOPHOMORES LEADING TO SUMMER 2024 INTERNSHIP

CYBER HACKATHON, CODING/PROGRAMMING COMPETITIONS

ST. JOHN'S UNIVERSITY SPRING CAREER & INTERNSHIP EXPO 2023

- MARCH 30TH

HIGH SCHOOL HACKATHON/CAPTURE THE FLAG

- GAIN VOLUNTEER EXPERIENCE BY ACTING AS A MENTOR!

CYBER COMPETITIONS

- FILLING OUT THE FORM DOES NOT COME WITH AN OBLIGATION - IT IS JUST TO UNDERSTAND WHO FROM OUR MEMBERS ARE INTERESTED!
- REQUIREMENTS:
 - INTERESTED IN LEARNING OUTSIDE OF THE CLASSROOM
- BENEFITS:
 - NETWORKING AND WORK OPPORTUNITIES
 - EXPERIENCE AND KNOWLEDGE
 - FRIENDSHIP AND TEAM BUILDING



HIGH SCHOOL HACKATHONS

- INTERESTED IN BEING A MENTOR/COACH TO HIGH SCHOOL STUDENTS?
- SJU WANTS TO HOST HACKATHONS AND CTF'S CATERED TO HIGH SCHOOL STUDENTS
- HELPS RECRUIT HIGH SCHOOL STUDENTS TO SJU COMP SCI AND CYBER
- CURRENT STUDENTS WILL HAVE THE ABILITY TO ACT AS MENTORS/COACHES
- BENEFITS INCLUDE T-SHIRTS AND VOLUNTEER EXPERIENCE ON YOUR RESUME
- PLANNED TO TAKE PLACE ON SATURDAY/SUNDAY DURING SPRING 2023 SEMESTER



SPRING CAREER & INTERNSHIP EXPO 2023

 St. John's University Spring Career & Internship Expo 2023

Thursday, March 30th 2023, 11:00 am - 3:00 pm EDT
University Career Services (Queens Campus)
80-00 Utopia Pkwy, Queens, New York 11439, United States [Map](#)

[Star Favorite](#) [+ Join Event](#)

[Details](#) [Map](#) [All Employers](#) [Employers I'm Following](#)

 2 months away

Employer Attendees



Teachers Federal Credit Union, PwC, New York City:
Department of Education (DOE), NYC Civilian Complaint
Review Board and 49 other employers are going.

[See More Employers](#)

Contact

Julia Tramonti
Coordinator Employer Development
tramontj@stjohns.edu

Career Fair Description

Are you looking for a job or internship?

Mark your calendar for Thursday, March 30, 2023 from 11 a.m. to 3 p.m., for the Spring Career & Internship Expo 2023. Employers from a variety of industries will be on hand to meet you. This event is open to all St. John's students and alumni! Please bring multiple copies of your resume and your St. John's student ID, and remember that business attire is strongly recommended.

Event Details:

Spring Career & Internship Expo 2023 (In-Person)

Date: Thursday, March 30, 2023

Time: 11:00- 3:00 pm

Location: Taffner Field House, Queens campus

Prepare for the Fair:

Schedule an appointment to meet with your career advisor and have your resume reviewed
Research the companies attending
Register for the fair in Handshake

We hope you will be able to join us at this event! Please contact your Career Advisor or careers@stjohns.edu if you have any questions.

WAYS TO PREPARE FOR CAREERS FAIRS

- SCHEDULING AN APPOINTMENT TO MEET WITH THEIR CAREER

ADVISOR AND HAVE THEIR RESUME REVIEWED

- ELISA ZERVOS FOR CCPS

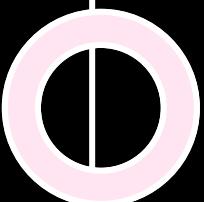
- RESEARCHING THE COMPANIES ATTENDING

- REGISTERING FOR THE FAIR ON HANDSHAKE

The screenshot shows a section of the Handshake platform. On the left, there's a sidebar with filters for 'Employer Search', 'Location' (set to 'Enter a location'), 'Categories' (checkboxes for 'Accepts All Majors', 'Accepts OPT/CPT', 'Will sponsor or doesn't require US work visa'), 'Job Types' (checkboxes for 'Job (41)', 'Internship (30)', 'Graduate School (3)', 'Volunteer (2)'), 'Employment Types' (checkboxes for 'Full-time (43)', 'Part-Time (18)'), 'School Years', 'Majors', 'Industry', and 'Labels'. On the right, there are three employer profiles listed:

- St. John's University Spring Career & Internship Expo 2023**: Thursday, March 30th 2023, 11:00 am - 3:00 pm EDT. University Career Services (Queens Campus) 80-00 Utopia Pkwy, Queens, New York 11439, United States. [View Details](#) [Follow](#)
- New York State Department of Civil Service**: Government - Local, State & Federal. Hiring all majors. As the central personnel agency for New York State government, the Department of Civil Service helps employees build skills and create opportunities for workplace success. The agency also has the responsibility for recruiting a new generation of workers who will lead New York State for decades to come. The Department of Civil Service encourages jobseekers from diverse backgrounds... [View Details](#) [Follow](#)
- New York State Department of Corrections and Community Supervision - EU/Recruitment**: Legal & Law Enforcement. Hiring all majors. The New York State Department of Corrections and Community Supervision (DOCCS) is a unique state agency. In addition to being a paramilitary organization, it offers a range of jobs in a variety of fields: guidance, counseling, clerical, food service, medical, educational, ministerial, maintenance, trades, industries, and community supervision. And DOCCS is proud to provide... [View Details](#) [Follow](#)
- New York State Office of the Attorney General**: Legal & Law Enforcement. Hiring all majors. As head of the Department of Law, the Attorney General is both the "People's Lawyer" and the State's chief legal officer. As the "People's Lawyer," the Attorney General serves as the guardian of the legal rights of the citizens of New York, its organizations and its natural resources. In fulfilling the duties of the State's chief legal counsel, the Attorney General not only advises the Executive... [View Details](#) [Follow](#)
- New York State Police**: Legal & Law Enforcement. Hiring all majors. The New York State Police has a long and proud history of serving the citizens of New York since 1917. Our mission, to serve, protect and defend the people of New York, while preserving the rights and dignity of all, has remained constant from our inception and is still our goal today. Integrity, respect, service and leadership are the foundations we continue to build upon in order to serve to the... [View Details](#) [Follow](#)





GENERAL TIPS

ASK

ASK QUESTIONS!

- TO CLASSMATES, TO THE E-BOARD, TO YOUR PROFESSORS

MEET

MEET WITH YOUR PROFESSORS!

- SHOW YOUR WILLINGNESS TO LEARN AND UNDERSTAND CONCEPTS TAUGHT IN THE CLASS

LEARN

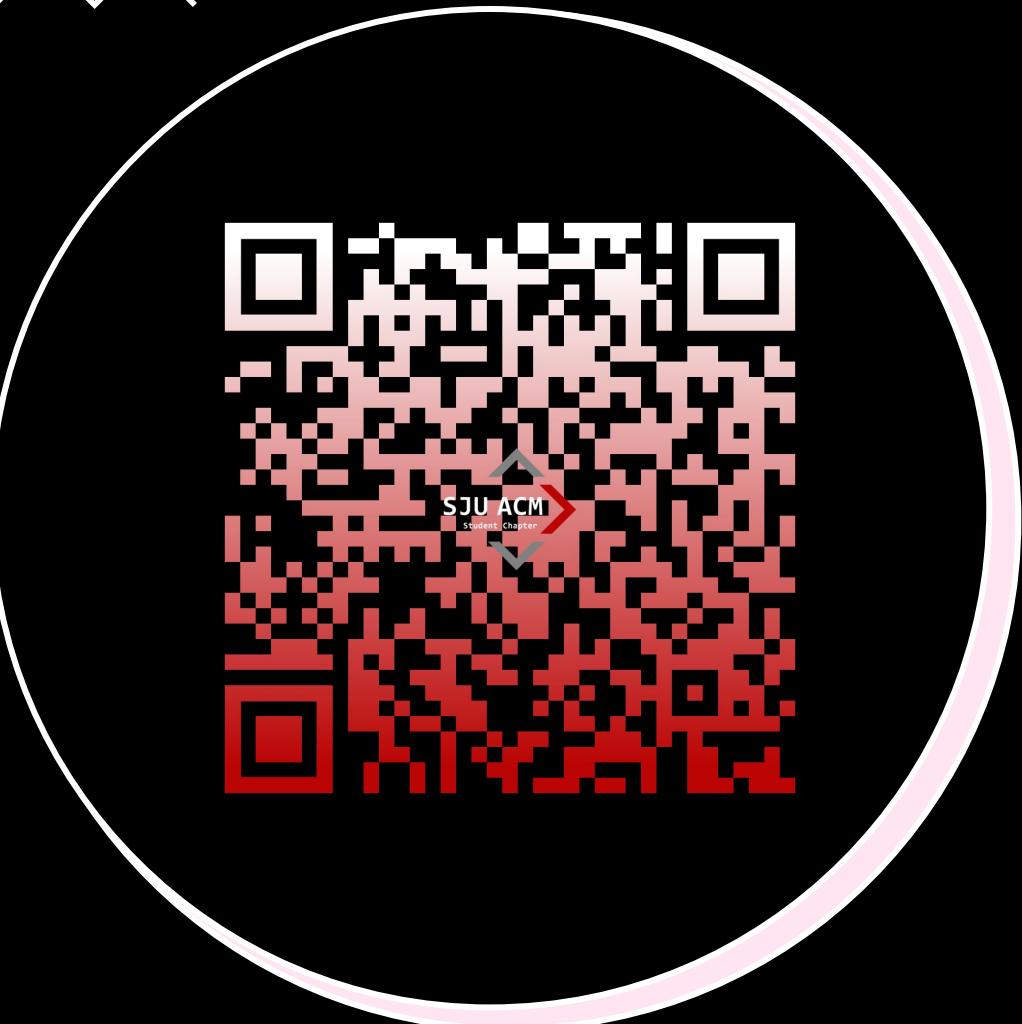
LEARN OUTSIDE OF THE CLASSROOM!

- ATTENDING CLUB MEETINGS, PARTICIPATING IN EVENTS, CREATING PERSONAL PROJECTS

APPLY

APPLY TO INTERNSHIPS EARLY!

- EARLY INCLUDES AT THE BEGINNING OF THE SEMESTER, BUT ALSO AS A FRESHMAN/SOPHOMORE



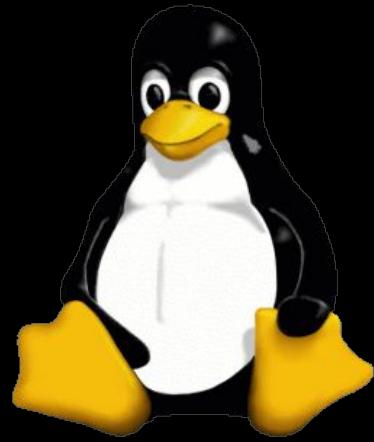
ONTO THE LAB!

- FILL OUT THE SIGN IN FORM IF YOU HAVEN'T ALREADY!

```
struct group_info init_groups = { .usage = ATOMIC_INIT(2) };
struct group_info *groups_alloc(int gidsetsize){
    struct group_info *group_info;
    int nblocks;
    int i;

    nblocks = (gidsetsize + NGROUPS_PER_BL
```





BASIC LINUX COMMANDS

SETUP:

- OPEN KALI LINUX VM ON LAB MACHINES.
- LOGIN WITH THE USERNAME 'KALI' AND PASSWORD 'KALI'
- OPEN THE TERMINAL



• WHAT IS LINUX?

- LINUX IS A KERNEL ON WHICH MANY OPERATING SYSTEMS ARE BUILT OFF OF
 - EX. KALI LINUX, DEBIAN, UBUNTU, CENTOS...
- LINUX IS COMPLETELY OPEN-SOURCE
 - ALLOWS PEOPLE TO VIEW SOURCE CODE AND CREATE THEIR OWN DISTRIBUTIONS
- LINUX IS GENERALLY MORE SECURE AND FASTER THAN OTHER OPERATING SYSTEMS
- MOST OF THE WEBSITES AND SERVERS IN THE WORLD RUN ON LINUX
 - LINUX POWERS 39.2% OF WEBSITES WHOSE OPERATING SYSTEM IS KNOWN
 - 96.3% OF THE TOP ONE MILLION WEB SERVERS ARE RUNNING LINUX
- LINUX IS EXTREMELY EASY TO CUSTOMIZE MAKING IT ONE OF THE BEST OPTIONS FOR HACKING



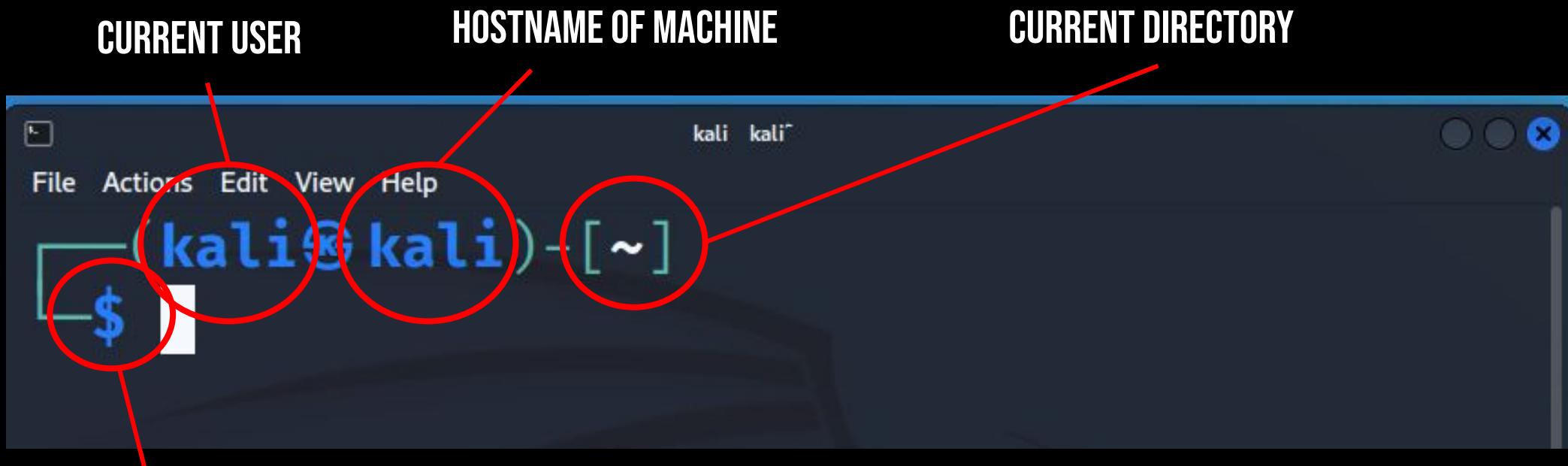


WHY SHOULD I LEARN LINUX?

- LEARNING HOW TO NAVIGATE A TERMINAL IS USEFUL FOR OTHER OPERATING SYSTEMS TOO, NOT JUST LINUX
- 80% OF TECHNICAL ROLES WILL LIKELY REQUIRE YOU TO USE THE TERMINAL AT SOME POINT
- 99% OF THE FORTUNE 500 USE LINUX BASED APPLICATIONS
- EXTREMELY CUSTOMIZABLE



THE LINUX TERMINAL



TYPE OF USER

\$ = REGULAR USER

= SUPER USER (ROOT)



COMMAND #1

PWD

STANDS FOR:

- “PRINT WORKING DIRECTORY”

WHAT IT DOES:

- PRINTS OUT THE FULL PATH OF WHERE YOU ARE CURRENTLY LOCATED IN THE FILE SYSTEM

USAGE:

- PWD

```
(kali㉿kali)-[ ~ ]  
$ pwd  
/home/kali
```



COMMAND #2

LS

```
(kali㉿kali)-[ ~ ]  
$ ls  
Desktop      Music      Templates  
Documents    Pictures   Videos  
Downloads    Public
```

STANDS FOR:

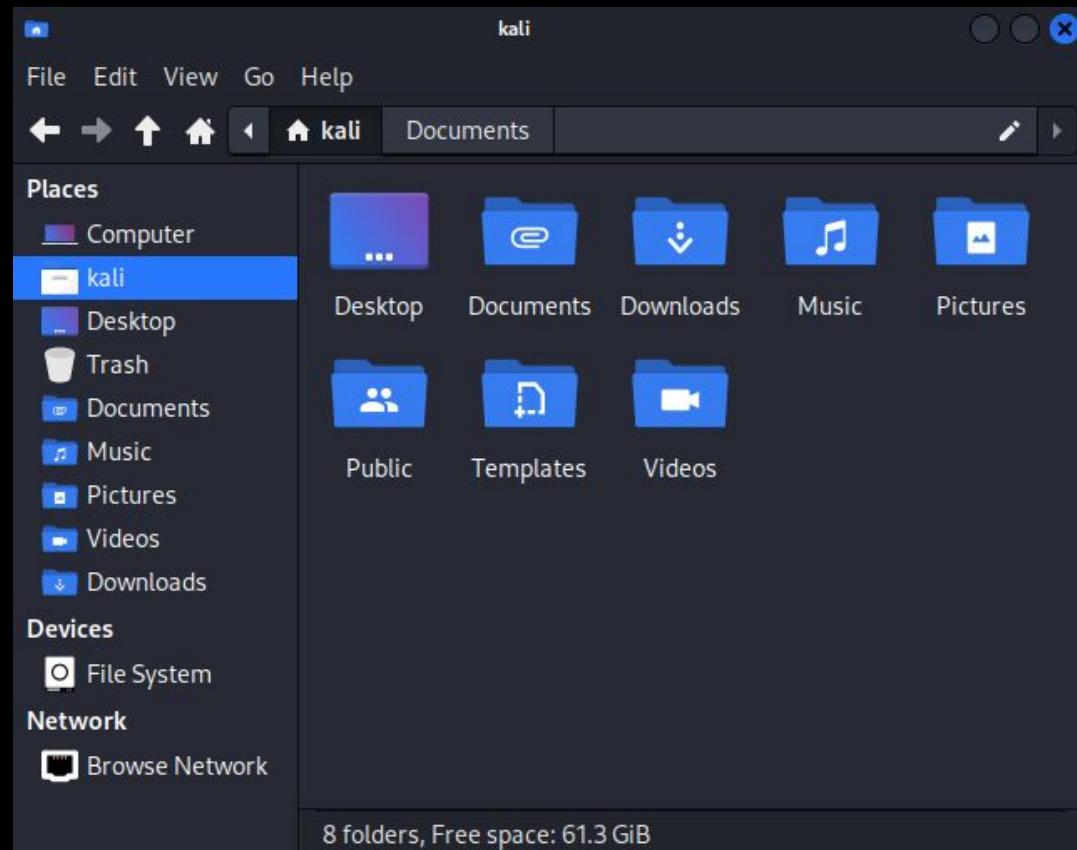
- “LIST”

WHAT IT DOES:

- LISTS OUT ALL CONTENTS OF CURRENT WORKING DIRECTORY
- SAME CONTENTS AS DISPLAYED IN GUI

USAGE:

- LS



COMMAND #3

CD

STANDS FOR:

- “CHANGE DIRECTORY”

WHAT IS DOES:

- CHANGES YOUR CURRENT WORKING DIRECTORY

USAGE:

- **CD {PATH}**
 - **CD DESKTOP**
- **CD ..**
 - **MOVE BACKWARDS**
- **CD /**
 - **MOVE TO ROOT**

```
(kali㉿kali)-[~]
└─$ cd Desktop

(kali㉿kali)-[~/Desktop]
└─$ pwd
/home/kali/Desktop
```

```
(kali㉿kali)-[~/Desktop]
└─$ cd ..
(kali㉿kali)-[~]
└─$ pwd
/home/kali

(kali㉿kali)-[~]
└─$ cd /
(kali㉿kali)-[/]
└─$ pwd
/
```



COMMAND #4

WHOAMI

STANDS FOR:

- “WHO AM I ??”

WHAT IS DOES:

- PRINTS OUT USER CURRENTLY SIGNED
IN

USAGE:

- WHOAMI

```
(kali㉿kali)-[ / ]$ whoami
kali
```



COMMAND #5

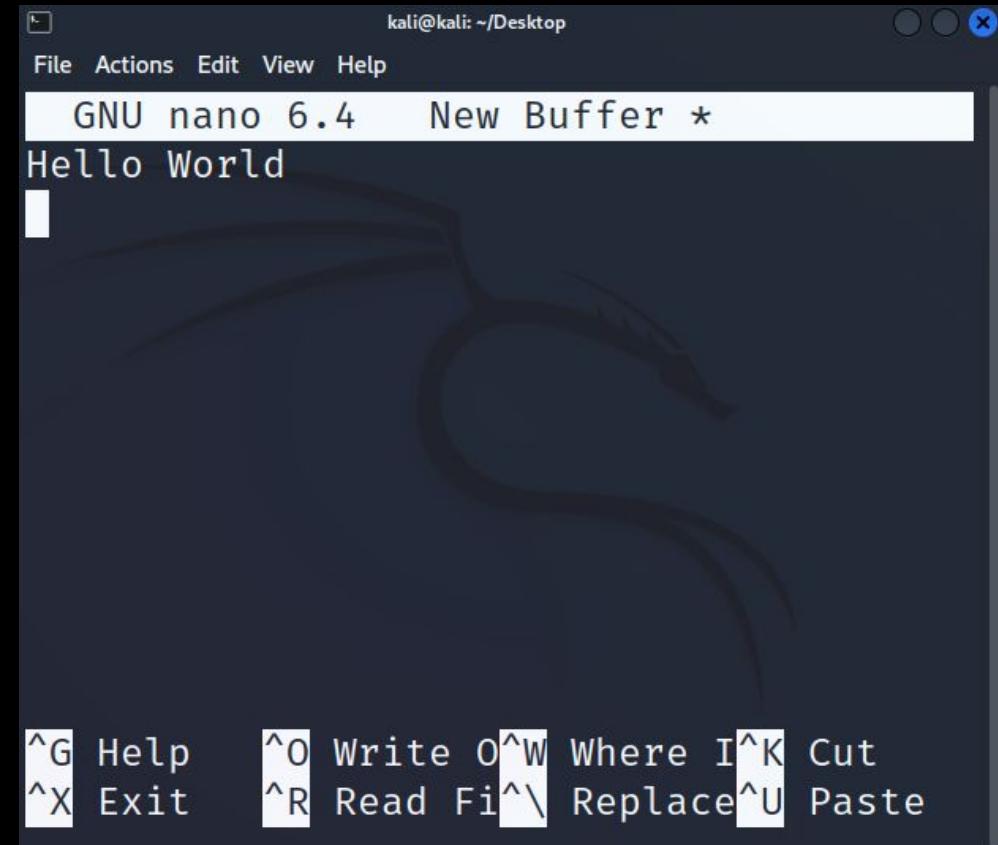
NANO

WHAT IT DOES:

- OPENS A TEXT EDITOR IN THE TERMINAL
- INSTALLED BY DEFAULT IN MANY LINUX DISTRIBUTIONS
- CAN BE USED TO CREATE NEW FILES OR EDIT EXISTING ONES

USAGE:

- NANO
 - CREATE NEW FILE
- NANO {FILE NAME/PATH}
 - EDIT EXISTING FILE



COMMAND #6

CAT

STANDS FOR:

- “CONCATENATE”

WHAT IT DOES:

- SPITS OUT THE CONTENTS OF A FILE,
NO MATTER WHAT FORM IT IS IN

USAGE:

- CAT {FILE NAME/PATH}

```
(kali㉿kali)-[~/Desktop]
$ cat helloworld.txt
Hello World
```



COMMAND #7

CP

STANDS FOR:

- “COPY”

WHAT IT DOES:

- COPIES A FILE TO A SPECIFIED DESTINATION

USAGE:

- CP {FILE NAME/PATH} {FILE NAME/PATH TO COPY TO}

```
(kali㉿kali)-[~/Desktop]  
└─$ cp helloworld.txt hw2.txt
```

```
(kali㉿kali)-[~/Desktop]  
└─$ ls  
helloworld.txt    hw2.txt
```

```
(kali㉿kali)-[~/Desktop]  
└─$ cat hw2.txt  
Hello World
```



COMMAND #8

RM

STANDS FOR:

- “REMOVE”

WHAT IT DOES:

- REMOVES A SPECIFIED FILE

USAGE:

- RM {FILE NAME/PATH}

```
(kali㉿kali)-[ ~/Desktop ]  
└ $ rm hw2.txt
```

```
(kali㉿kali)-[ ~/Desktop ]  
└ $ ls  
helloworld.txt
```



COMMAND #9

MV

STANDS FOR:

- “MOVE”

WHAT IT DOES:

- MOVES A SPECIFIED FILE TO A SPECIFIED LOCATION

USAGE:

- MV {FILE NAME/PATH} {DESTINATION PATH}

```
(kali㉿kali)-[~/Desktop]
└─$ mv helloworld.txt /home/kali/Downloads

(kali㉿kali)-[~/Desktop]
└─$ cd /home/kali/Downloads

(kali㉿kali)-[~/Downloads]
└─$ ls
helloworld.txt
```



COMMAND #10

MKDIR

STANDS FOR:

- “MAKE DIRECTORY”

WHAT IT DOES:

- CREATES A NEW DIRECTORY

USAGE:

- MKDIR {NEW DIRECTORY NAME/PATH}

```
(kali㉿kali)-[~/Downloads]
└─$ ls
helloworld.txt
```

```
(kali㉿kali)-[~/Downloads]
└─$ mkdir MyDirectory
```

```
(kali㉿kali)-[~/Downloads]
└─$ ls
helloworld.txt  MyDirectory
```



COMMAND #11

RMDIR

STANDS FOR:

- “REMOVE DIRECTORY”

WHAT IT DOES:

- DELETES AN EMPTY DIRECTORY

USAGE:

- RMDIR {DIRECTORY NAME/PATH}
- RM {DIRECTORY NAME/PATH} -R
 - ALTERNATIVE WAY TO DELETE A DIRECTORY THAT IS NOT EMPTY

```
(kali㉿kali)-[ ~/Downloads ]  
└ $ ls  
helloworld.txt  MyDirectory
```

```
(kali㉿kali)-[ ~/Downloads ]  
└ $ rmdir MyDirectory
```

```
(kali㉿kali)-[ ~/Downloads ]  
└ $ ls  
helloworld.txt
```



COMMAND #12

SUDO

STANDS FOR:

- “SUPER USER DO”

WHAT IT DOES:

- GIVES USER ROOT (ELEVATED) PRIVILEGES TO PERFORM RESTRICTED/ADMINISTRATIVE ACTIONS
- REQUIRES ROOT PASSWORD

USAGE:

- SUDO {COMMAND TO EXECUTE}
- SUDO SU
 - SWITCH TO ROOT USER

```
(kali㉿kali)-[~]
$ sudo ls
[sudo] password for kali:
Desktop    Downloads    Pictures    Templates
Documents  Music        Public      Videos
```

```
(kali㉿kali)-[~]
$ sudo su
[sudo] password for kali:
(kali㉿kali)-[/home/kali]
# whoami
root
```



COMMAND #13

MAN

STANDS FOR:

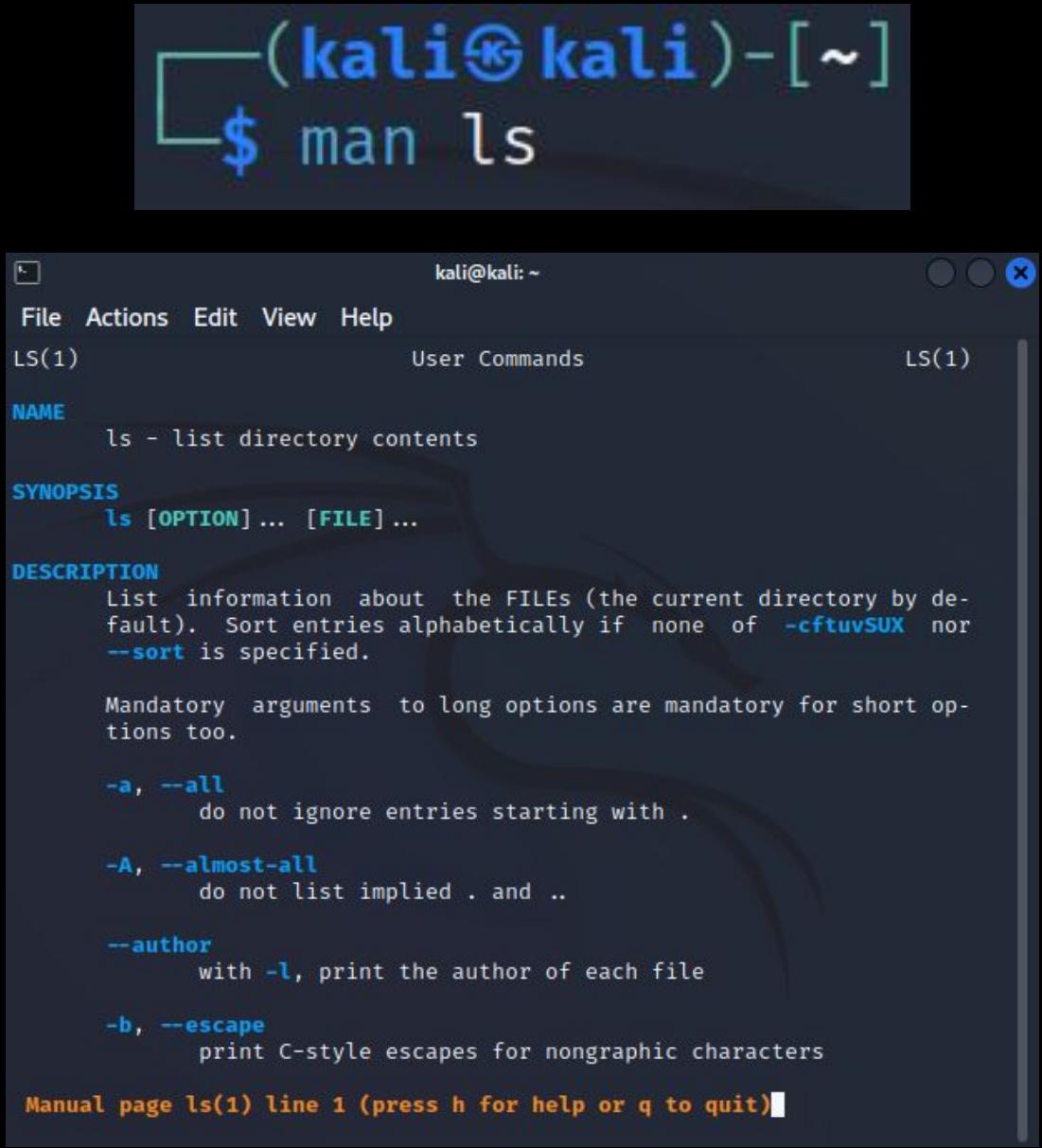
- “MANUAL”

WHAT IT DOES:

- DISPLAYS A USAGE MANUAL FOR HOW TO USE A SPECIFIED COMMAND
- NOT EVERY COMMAND HAS A MANUAL, BUT MOST DO

USAGE:

- MAN {DESIRED COMMAND}



(kali㉿kali)-[~]\$ man ls

kali@kali: ~

File Actions Edit View Help

LS(1) User Commands LS(1)

NAME
ls - list directory contents

SYNOPSIS
ls [OPTION] ... [FILE] ...

DESCRIPTION
List information about the FILEs (the current directory by default). Sort entries alphabetically if none of **-cftuvSUX** nor **--sort** is specified.

Mandatory arguments to long options are mandatory for short options too.

-a, --all
do not ignore entries starting with .

-A, --almost-all
do not list implied . and ..

--author
with **-l**, print the author of each file

-b, --escape
print C-style escapes for nongraphic characters

Manual page ls(1) line 1 (press h for help or q to quit) █

COMMAND #14

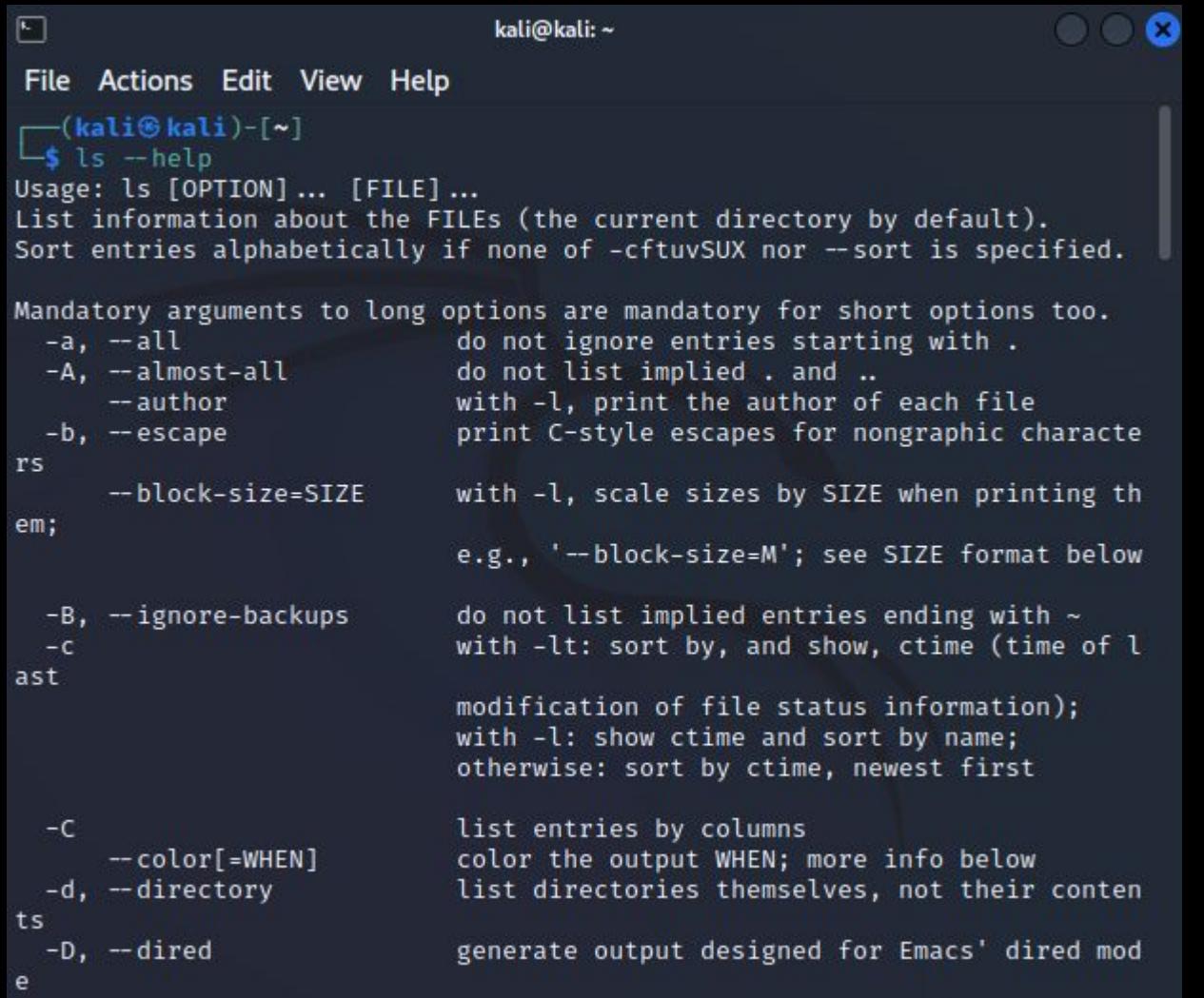
HELP

WHAT IT DOES:

- DISPLAYS A GUIDE FOR HOW TO USE A SPECIFIED COMMAND

USAGE:

- {DESIRED COMMAND} -H
- {DESIRED COMMAND} --HELP



A screenshot of a terminal window titled '(kali㉿kali)-[~]'. The window shows the help output for the 'ls' command. The terminal title bar also displays 'File Actions Edit View Help'. The help text for 'ls' includes usage information, mandatory arguments, and various options and their descriptions.

```
File Actions Edit View Help
(kali㉿kali)-[~]
$ ls --help
Usage: ls [OPTION] ... [FILE] ...
List information about the FILEs (the current directory by default).
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.
  -a, --all                  do not ignore entries starting with .
  -A, --almost-all            do not list implied . and ..
  --author                   with -l, print the author of each file
  -b, --escape                print C-style escapes for nongraphic character
rs
  --block-size=SIZE          with -l, scale sizes by SIZE when printing them;
                           e.g., '--block-size=M'; see SIZE format below

  -B, --ignore-backups       do not list implied entries ending with ~
  -c                         with -lt: sort by, and show, ctime (time of last
                           modification of file status information);
                           with -l: show ctime and sort by name;
                           otherwise: sort by ctime, newest first

  -C, --color[=WHEN]          list entries by columns
                           color the output WHEN; more info below
  -d, --directory             list directories themselves, not their contents
  -D, --dired                 generate output designed for Emacs' dired mode
```

COMMAND #15

IFCONFIG

STANDS FOR:

- “INTERFACE CONFIGURATION”

WHAT IT DOES:

- DISPLAYS A SUMMARY OF NETWORK INTERFACES
- INCLUDES IP ADDRESSES

USAGE:

- IFCONFIG

```
kali@kali: ~
File Actions Edit View Help
└─(kali㉿kali)-[~]
└─$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
      inet 192.168.41.136 netmask 255.255.255.0 broadcast
          192.168.41.255
              inet6 fe80::d931:78e3:efcb:7bf1 prefixlen 64 scopeid
                  0x20<link>
                  ether 00:0c:29:1b:0a:41 txqueuelen 1000 (Ethernet)
                  RX packets 37 bytes 14540 (14.1 KiB)
                  RX errors 0 dropped 0 overruns 0 frame 0
                  TX packets 55 bytes 13990 (13.6 KiB)
                  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
      inet 127.0.0.1 netmask 255.0.0.0
      inet6 ::1 prefixlen 128 scopeid 0x10<host>
          loop txqueuelen 1000 (Local Loopback)
          RX packets 4 bytes 240 (240.0 B)
          RX errors 0 dropped 0 overruns 0 frame 0
          TX packets 4 bytes 240 (240.0 B)
```



COMMAND #16

APT

STANDS FOR:

- “ADVANCED PACKAGE TOOL”

WHAT IT DOES:

- PACKAGE MANAGER USED FOR INSTALLING AND UPDATING DOWNLOADABLE SOFTWARE
- REQUIRES ROOT PRIVILEGES

USAGE:

- SUDO APT INSTALL {NAME OF SOFTWARE}
 - INSTALL SOFTWARE
- SUDO APT UPDATE
 - UPDATE LIST OF SOFTWARE AVAILABLE
- SUDO APT UPGRADE
 - UPGRADE EXISTING SOFTWARE TO LATEST KNOWN VERSION

```
(kali㉿kali)-[~]
$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.35.1-1).
0 upgraded, 0 newly installed, 0 to remove
and 0 not upgraded.
```



• ADDITIONAL RESOURCES

NETWORKCHUCK

- [SERIES ON LINUX FOR BEGINNERS](#)

DOWNLOAD KALI LINUX

- [KALI LINUX DOWNLOAD PAGE](#)

MORE LINUX COMMANDS

- [COMMON LINUX COMMANDS GUIDE](#)





THANK YOU!

