

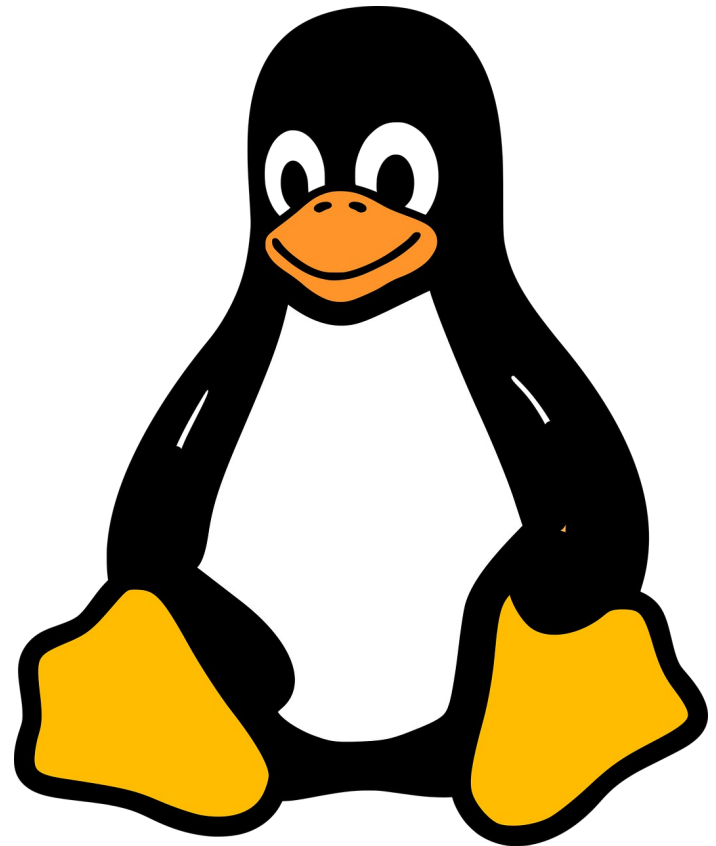
# HackerFrogs Afterschool Linux OS Operations Intro

Class:  
Linux OS Operations

Workshop Number:  
AS-LIN-00

Document Version:  
1.75

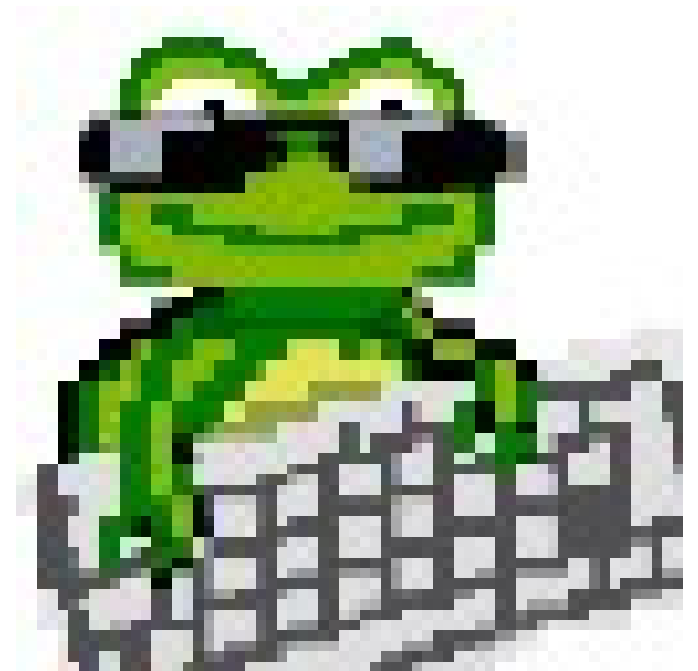
Special Requirements:  
None



# Welcome to HackerFrogs Afterschool!

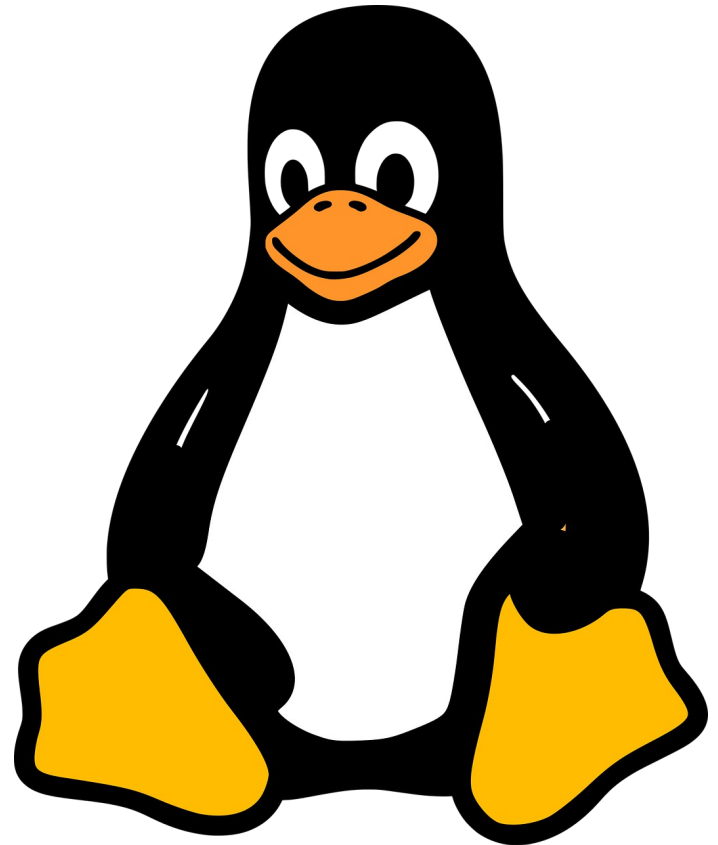
HackerFrogs Afterschool is a cybersecurity program for learning beginner cybersecurity skills across a wide variety of subjects.

This is the intro to  
Linux OS operations.



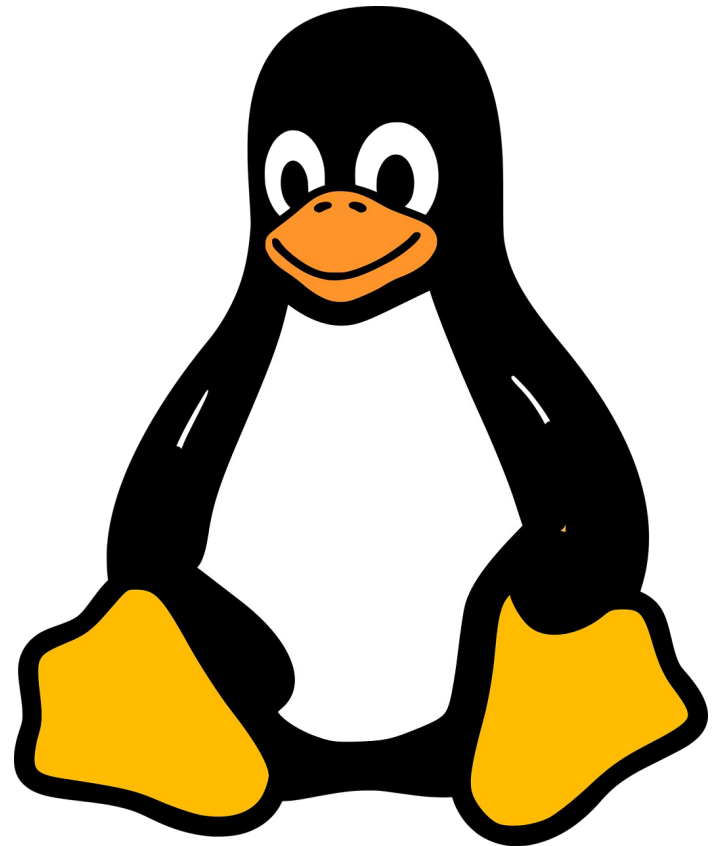
# What is Linux?

Like Windows and MacOS, Linux is a computer operating system (OS). However, unlike Windows and MacOS, Linux is free, and open-source, which means its source code can be viewed (and potentially modified) by anybody.



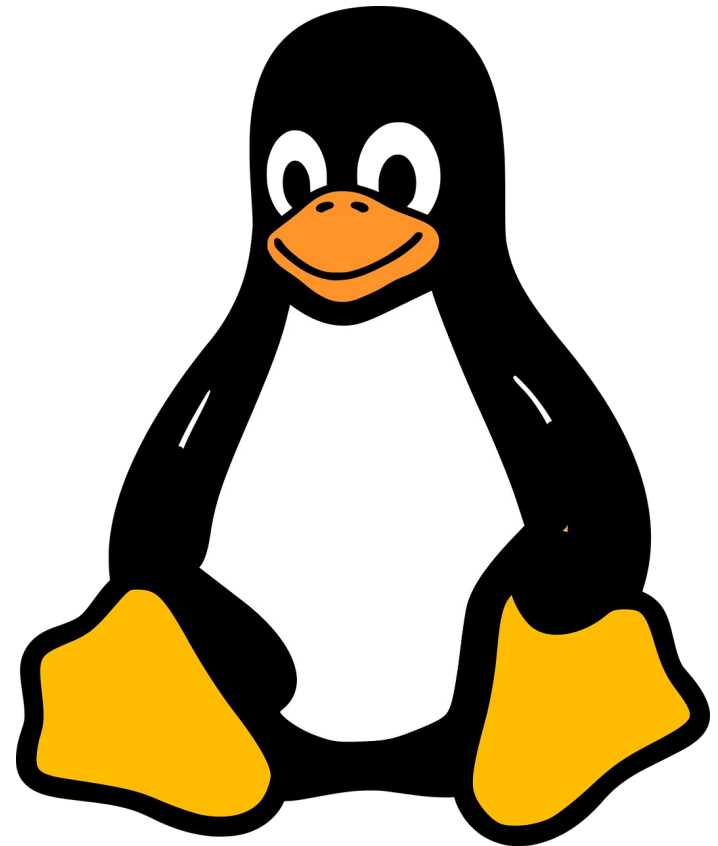
# What is Linux?

Linux is a modular OS, which means that software components can be very easily added, updated or removed to fit the user's needs.



# What is Linux?

This has led to the development of different distributions (variations) of Linux that cater to different groups of users.



# What is Linux?

Specifically,  
Cybersecurity-oriented  
distributions of Linux exist,  
which are ideal for  
cybersecurity student use.



# Why Learn Linux for Cybersecurity?

- Linux is easily accessible to students, since it's free
- Many cybersecurity tools / software are available to Linux users, most of which are free
- Cybersecurity-oriented distributions of Linux are readily available

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# What are CTFs?

HackerFrogs  
Afterschool classes  
prefer to incorporate  
CTF games into  
classes for a more  
interactive  
experience, but  
what are CTFs?



# What are CTFs?

Cybersecurity Capture The Flag (CTF) games are training exercises where the goal of the exercise is to “capture the flag” through use of cybersecurity skills.



# What are CTFs?

In this context,  
“capture” means to  
gain access to a file  
or other resource,  
and “flag” refers to  
a secret phrase  
or password.



# PicoCTF

The CTF game we will be playing to learn basic Linux skills is called PicoCTF. It's a well-known education platform with challenges across many different cybersecurity disciplines.



# PicoCTF

In order to participate in picoCTF challenges, we will need a registered account on the website. We can signup at the following link:

<https://play.picoctf.org/register>

# What's Next?

In the next HackerFrogs Afterschool Linux OS workshop, we'll start learning Linux commands with PicoCTF.





# Until Next Time, HackerFrogs!

