PICOCTF

INTRODUCTION

Commands to Know

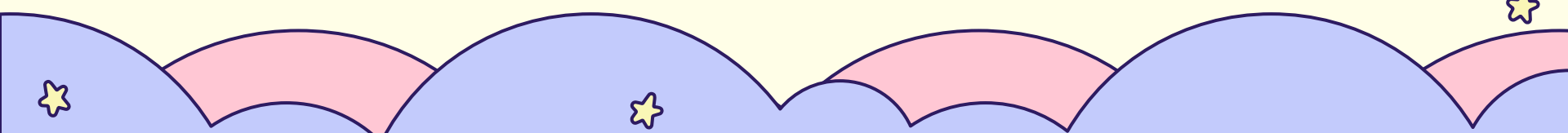| Linux command	Description	Linux command example
cd	Change directory with a specified path	cd */path/directory1*
clear	Clear the screen	clear
cp	Copy file(s)	cp */path1/file1 /path2/file1*
diff	Compare the contents of files	diff *file1 file2*
exit	Log out of Linux	exit
grep	Find a string of text in a file	grep "word or phrase" *file1*
head	Display beginning of a file	head *file1*
less	View a file	less *file1*
ls	List contents of a directory	ls */path/directory1*
mv	Move file(s) or rename file(s)	mv */path1/file1 /path2/file2*
mkdir	Create a directory	mkdir *directory*
rm	Delete file(s)	rm *file1*
rmdir	Remove a directory	rmdir *directory*
tail	Display end of a file	tail *file1*
tar	Store, list or extract files in an archive	tar *file1*
vi	Edit file(s) with simple text editor	vi *file1*

Basics

Link - https://picoctf.org/

Created by Carnegie Mellon University

- (Will have to create a **FREE** account in order to use)

Binary Search - Quick Basics

- List or Array has to be in order
- Checks midpoint
- If lower disregard right half, if higher disregard left half
- Repeated Algorithm until number is found

Binary Search CTF

- Practice > Search By Name > "Binary Search"
- Launch Instance and your Terminal, WSL, Etc.
- Type in given SSH followed by the password and then trust the SSH
- You have number of guesses so be strategic !! limited (10 guesses)
- If you guess number you'll be given flag to enter on PicoCTF to complete level for your profile

Magikarp Ground Mission

- Practice > Search By Name > "Magikarp Ground Mission"
- Purpose is to get comfortable with your linux commands
- Find the flag needed to complete the level by moving to different directories and examining the contents of the files
- Add this to the front of the flag you found when submitting answer
  - picoCTF{xxsh_0ut_0f_\/\/4t3r_

WebDecode

- Practice > Search By Name > "WebDecode"
- This CTF takes your web exploitation skills to the test
- Inspect the website and try and find the flag
- It may or may not be encrypted...
- Use this website if it is encrypted - https://gchq.github.io/CyberChef/