



Introduction to Cyber Security

An essential practice for protecting digital systems.

What is cyber security?

Cyber security involves protecting systems, networks, and data from digital attacks.

It includes implementing policies and practices to prevent unauthorized access and cyber threats.

Top 10 Most Notorious Hackers Of All Time In This Internet World

① Kevin Mitnick

Social engineering expert

② Adrian Lamo

Responsible for high-profile security breaches

③ Albert Gonzalez

Mastermind behind the largest data breaches in history

④ Robert Tappan Morris

Created the first computer worm

Introduction To Networking

An overview of the fundamental concepts and principles of networking.

OSI MODELS

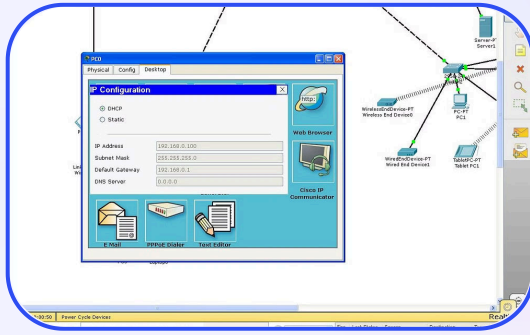
Layers of Communication

Defines the process of how data is transmitted over a network.

Standardization

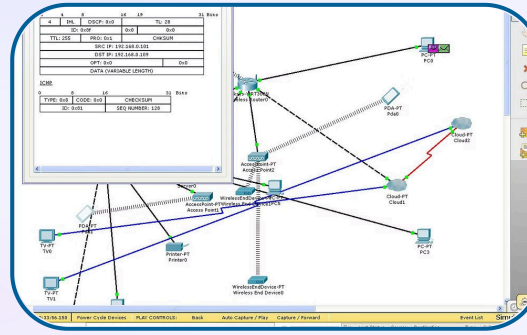
Allows for seamless communication between different types of computer systems.

DASHBOARD OF CISCO PACKET TRACER



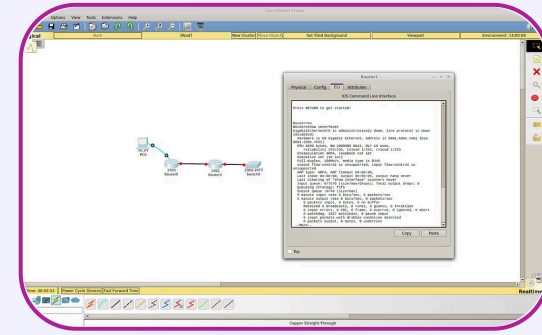
Workspace Layout

The dashboard consists of workspace area for network design and configuration.



Simulation Tools

Various simulation tools for testing network scenarios and configurations.



Device Library

Extensive device library with routers, switches, and other network components.

What is Python

Python is a high-level, interpreted programming language known for its simplicity and readability.

DATA TYPES IN PYTHON

- **Integer:** Represents whole numbers
- **Float:** Represents decimal numbers
- **String:** Represents text
- **List:** Represents a collection of items

Top 10 Web Application Security Risks

1 Injection

Unvalidated user input to execute unauthorized commands.

2 Broken Authentication

Improperly managed logins and sessions can lead to unauthorized access.

3 Sensitive Data Exposure

Improperly protected sensitive data, leading to security breaches.

Conclusion and Key Takeaways

Key points to remember from the presentation.