



INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT AKURDI, PUNE

Cloud-Based Honeypot Deployment for Advanced Threat Intelligence and Cyber Defense

GROUP NO: 15

Abhishek Sanjeevkumar Agre (233402) Nitin Janardan Ingle (233425)

PROJECT GUIDE

CENTRE COORDINATOR

Mr. Kartik Awari

MR. ROHIT PURANIK





Strengthening Cybersecurity with T-POT Honeypot: An In-Depth Exploration

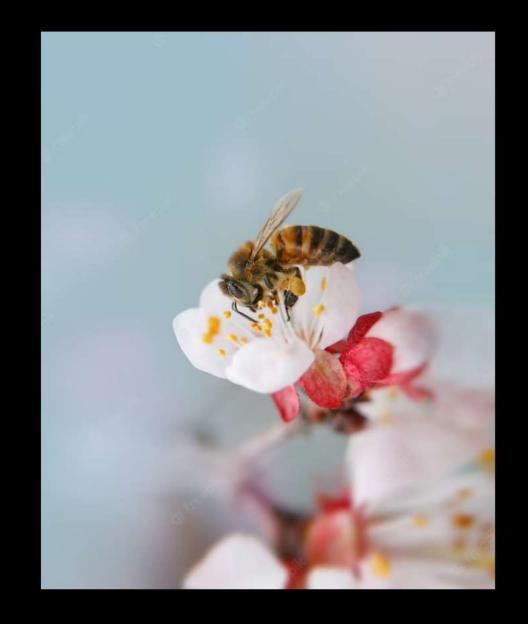


Introduction

Strengthening Cybersecurity with T-POT Honeypot: An In-Depth Exploration. This presentation aims to provide an overview of how T-POT honeypot can help in strengthening cybersecurity. The presentation will cover the basics of honeypots, types of honeypots, and how T-POT honeypot is different from others.

What are Honeypots?

Honeypots are decoy systems that are designed to attract attackers and help in detecting and analyzing their activities. They can be used to gather intelligence on attackers, their tactics, and their tools. Honeypots can be categorized into two types: production honeypots and research honeypots.





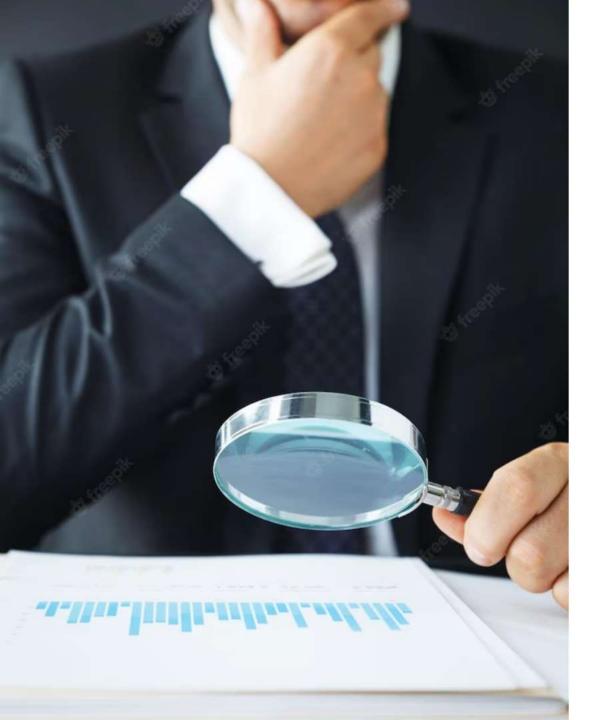
Types of Honeypots

There are several types of honeypots including low-interaction honeypots, high-interaction honeypots, and hybrid honeypots. Low-interaction honeypots emulate a limited number of services and are easy to deploy. High-interaction honeypots emulate complete systems and are more complex to deploy. Hybrid honeypots combine the features of both low and high-interaction honeypots.

What is T-POT Honeypot?

T-POT honeypot is an open-source honeypot platform that combines multiple honeypot technologies into a single platform. It is designed to be easy to deploy and manage, and provides a comprehensive view of attackers' activities. T-POT honeypot includes a range of tools for detecting, analyzing, and responding to attacks.





Advantages of T-POT Honeypot

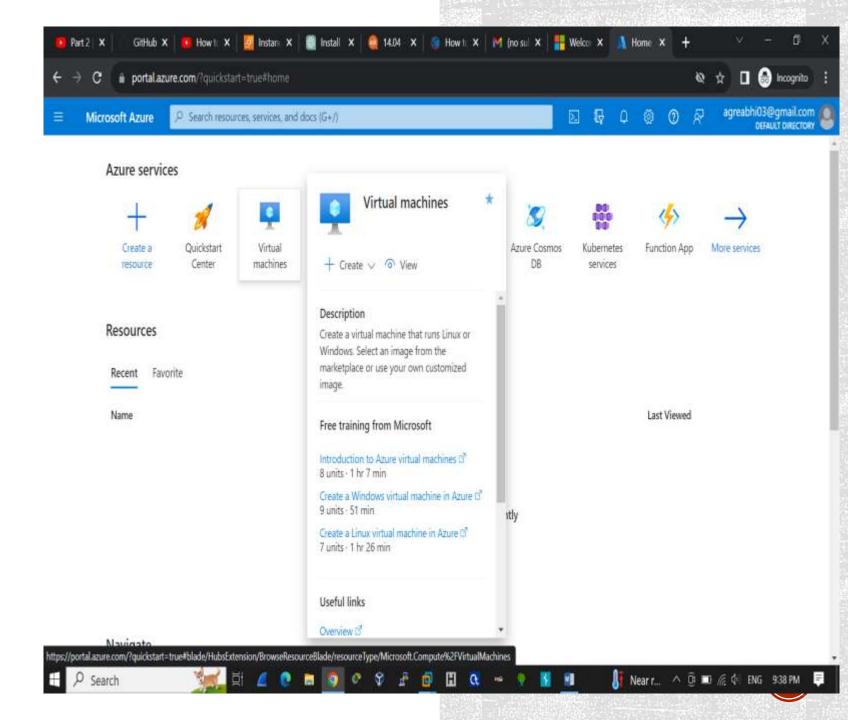
There are several advantages of **T-POT honeypot** including its ease of deployment, comprehensive view of attackers' activities, and ability to detect and respond to attacks in real-time. T-POT honeypot also provides a range of tools for analyzing and reporting on attackers' activities, which can help in strengthening cybersecurity.



Deploying T-POT in the Cloud: Step-by-Step Installation Guide

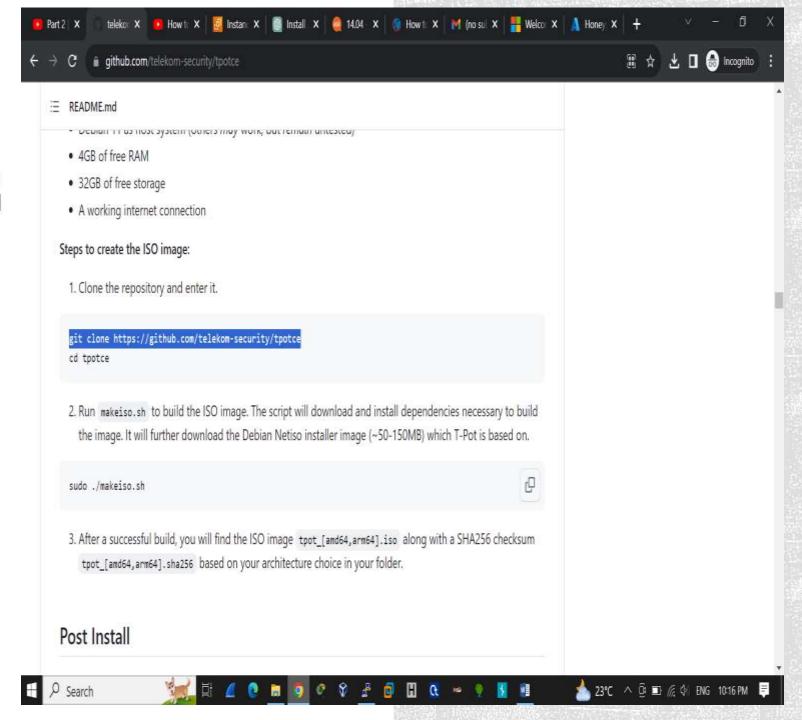
PREREQUISITES

Before starting installation process, make sure have **Cloud** account, a virtual machine running on debian

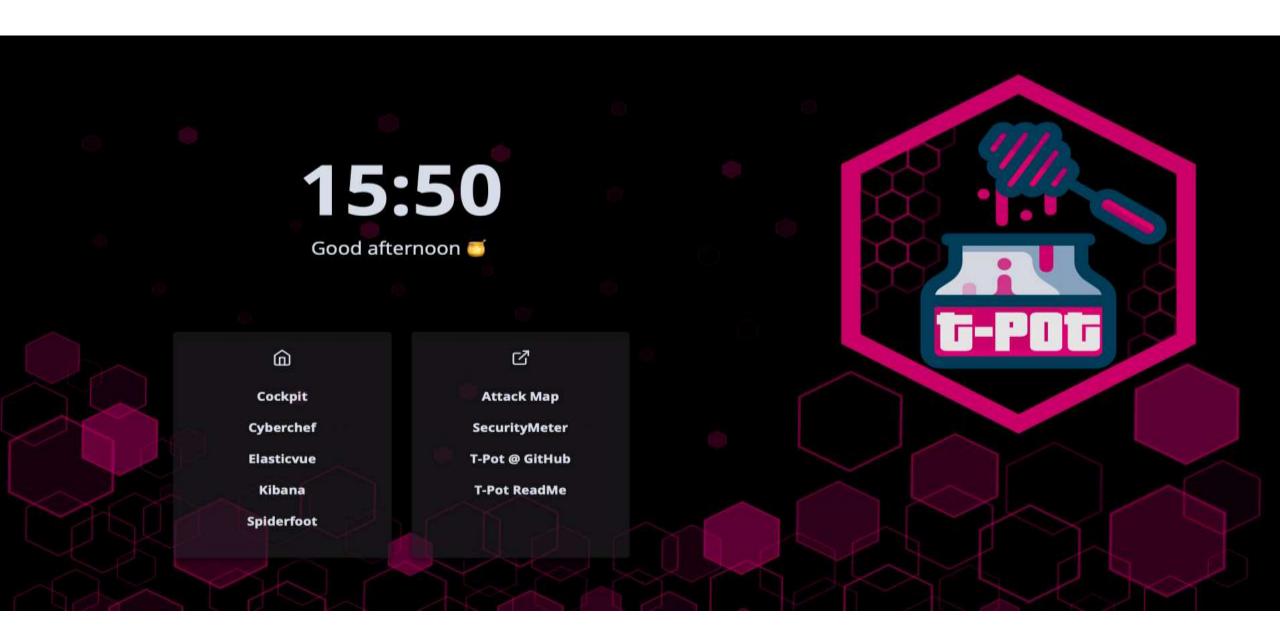


Installing T-POT

To install T-POT, you will need to clone the T-POT repository from GitHub and run the installation script. Once the installation is complete, you can access the T-POT dashboard through your web browser.



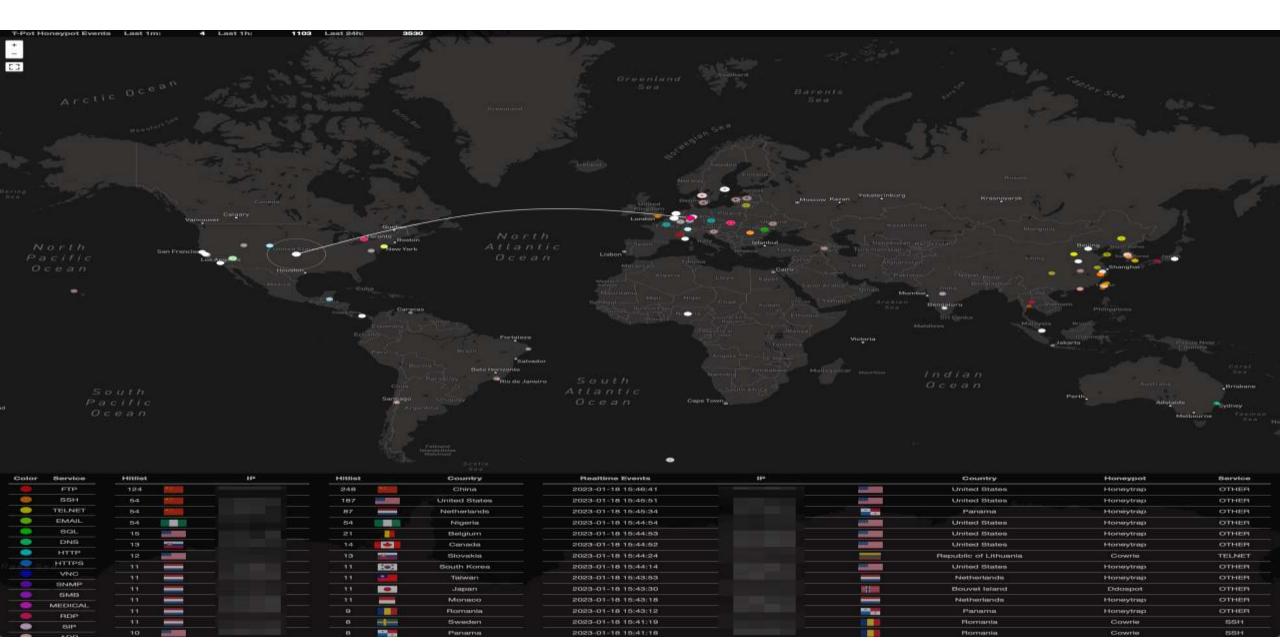
T-POT LANDING PAGE



KIBANA DASHBOARD



ATTACK MAP



SPIDERFOOT



Settings



New Scan

Scan Name

The name of this scan.

Scan Target

The target of your scan.

Run Scan Now

3 Your scan target may be one of the following. SpiderFoot will automatically detect the target type based on the format of your input:

Domain Name: e.g. example.com

IPv4 Address: e.g. 1.2.3.4

IPv6 Address: e.g. 2606:4700:4700::1111

Hostname/Sub-domain: e.g. abc.example.com

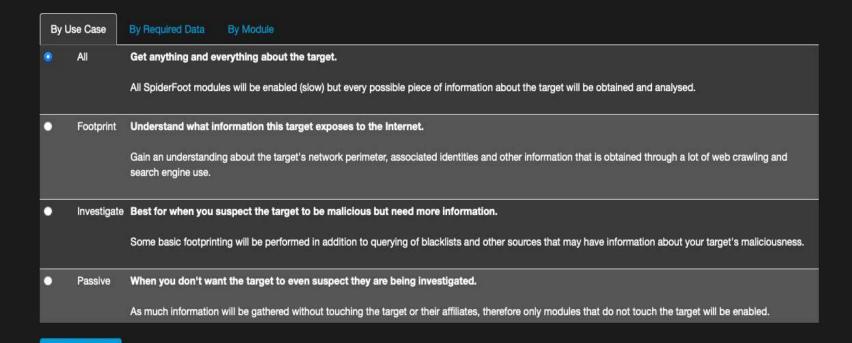
Subnet: e.g. 1.2.3.0/24

Bitcoin Address: e.g. 1HesYJSP1QqcyPEjnQ9vzBL1wujruNGe7R

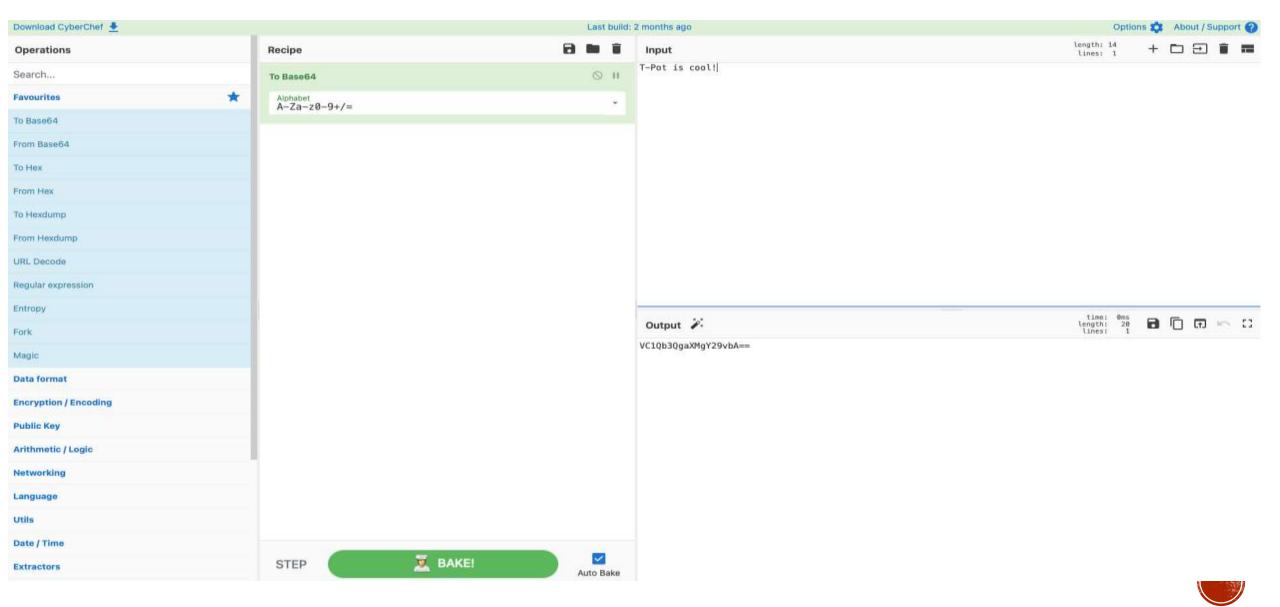
E-mail address: e.g. bob@example.com Phone Number: e.g. +12345678901 (E.164 format)

Human Name: e.g. "John Smith" (must be in quotes) Username: e.g. "jsmith2000" (must be in quotes)

Network ASN: e.g. 1234



CYBERCHEF



Conclusion

In conclusion, **T-POT honeypot** is an effective tool for strengthening cybersecurity. It provides a comprehensive view of attackers' activities and includes a range of tools for detecting, analyzing, and responding to attacks. T-POT honeypot is easy to deploy and manage, and can help in gathering intelligence on attackers' tactics and tools.

THANK YOU

