Made by Moeez Javed

How to Install and Use RustScan on Kali Linux

Introduction to RustScan

RustScan is a modern, fast, and efficient port scanner built using the Rust programming language. It is designed to be significantly faster than traditional port scanners by leveraging parallelism and optimizing system resources. RustScan can quickly identify open ports and seamlessly integrate with other tools like Nmap for advanced scanning and service detection.

Key features of RustScan include:

- Ultra-fast scanning using parallel execution.
- Ability to scan the entire 65,535 ports range efficiently.
- Easy integration with Nmap for detailed service enumeration.
- Supports both IPv4 and IPv6 addresses.
- Open-source and actively maintained by the community.

✅ 1. Update and Upgrade Your System

Ensure your system is up-to-date:

sudo apt update && sudo apt upgrade -y

✅ 2. Install Rust (If Not Installed)

If Rust is missing, install it:

sudo apt install curl -y
curl --proto '=https' --tlsv1.2 -sSf https://sh.rustup.rs | sh

Set Rust to your environment:

source $HOME/.cargo/env

rustup default stable

✅ 3. Download and Install RustScan (Deb Package Method)

This method works best for Kali Linux:

Download the .deb package:

Wget
https://github.com/RustScan/RustScan/releases/download/2.2.2/rustscan_2.2.2_amd64.deb

Install the package:

sudo dpkg -i rustscan_2.2.2_amd64.deb

Fix dependencies if needed:

sudo apt --fix-broken install

✅ 4. Verify the Installation

Check if RustScan is successfully installed:

rustscan --version

✅ 5. Run a Test Scan

Example scan of a local IP address:

rustscan -a 192.168.100.84 --range 1-65535

rustscan -a cust.edu.pk --range 1-65535

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Tasks:

✅ RustScan Tasks:

Update and upgrade your Kali Linux system.

Install Rust and verify the installation.

Download and install RustScan using the .deb **package.**

Perform a full port scan on 127.0.0.1**.**

Scan the domain cust.edu.pk **for open ports.**

Save the scan results of 192.168.1.1 **to a text file.**

Use RustScan with Nmap to perform a service version scan on 192.168.1.1**.**

Scan only ports 21**,** 22**, and** 3306 **on a local IP.**

Perform a fast port scan on the subnet 192.168.1.0/24**.**

Find open web ports (80, 443, 8080) on 192.168.1.1**.**

Report submission, you are required to appear for a viva till Wednesday 11:00am
Venue: B Block, 3rd Floor