Contribution ID: **17**   Type: **Paper presentation**

Improving Network Security Using DD-WRT as a Solution for SOHO Routers

Friday 22 September 2023 09:40 (20 minutes)

Improving Network Security Using DD-WRT as a Solution for SOHO Routers

Timofte Edi Marian
"Ștefan cel Mare"University
Suceava, Romania
edi.timofte@usm.ro

Balan Doru
"Ștefan cel Mare"University
Suceava, Romania
dorub@usv.ro

Abstract—Securing the IT infrastructure in today's digital age against cyber-attacks has become vital, one of the most used robust solutions for cyber security being a DD-WRT solution. This article focuses on DD-WRT as a security solution for a TP-Link AC1750 router, model Archer C7. In this article, we will explore deploying DD-WRT on a network as a basic solution, followed by an analysis of port scanning and vulnerabilities. We will also examine the ways in which DD-WRT help increase network security by installing additional functionality such as VPN, firewall, and other applications. We will study how an implemented DD-WRT solution will prevent cyber-attacks and vulnerability scans, also referring to research studies conducted to date. This paper provides a starting point for understanding the role of DD-WRT in enhancing IT security against cyber threats.

Author: TIMOFTE, Edi ("Ștefan cel Mare"University)

Co-author: Mr BALAN, Doru ("Ștefan cel Mare"University)

Presenter: TIMOFTE, Edi ("Ștefan cel Mare"University)

Session Classification: Session C

Track Classification: Networking in Education and Research