Python – FreeRADIUS Server Configuration Software Documentation



It has evolved with the development and python programming language for the Linux operating system. The purpose of the configuration of the FreeRADIUS server program easily and quickly perform.

To get a grasp of what FreeRADIUS is, it would help to firstly understand what the concept RADIUS stands for:

RADIUS: RADIUS (the acronym for Remote Authentication Dial In User Service') it is a protocol devised to perform the AAA (authentication, authorization, accounting) i.e. performing the management of identification verification, providing the permissions and users' data accounting, for those users who provide remote access to other networks. The protocol was developed in 1991 by the manufacturer Livingstone to verify identification and to follow up accounting and was later implemented as a standard by IETF (Internet Engineering Task Force). With its perfect support and wide usage it is being used by ISPs (Internet Service Providers) and establishments to manage access to Internet, Intranet, wireless network and integrated e-mail services.

At the application level RADIUS is a server / client protocol which uses UDP (User Datagram Protocol) for transmission. They are densely used for network access like RAS (Remote Access Server) and network gateways VPN (Virtual Private Network) servers. They, basically, have three functions:

ID verification of users before providing access to the network The authentication of these users or devices for certain services Keeping an account of the usage data of these services FreeRADIUS: FreeRADIUS is a modular, rich in features, highly efficient in performance version, or model, of the RADIUS protocol mentioned above. The FreeRADIUS which is open source code software can run under various operating systems (AIX, Cygwin, FreeBSD, HP-UX, Linux, MAC OS-X, NetBSD, OpenBSD, Solaris gibi). With its multiple AAA servers, it has wide range applications that provide service to millions of users. The server supports LDAP (Lightweight Directory Access Protocol), SQL(Structured Query Language) and other database types and has been operating with EAP (Extensible Authentication Protocol) since 20001 and PEAP (Protected Extensible Authentication Protocol) and EAP-TTLS (EAP-Tunneled Transport Layer Security) since 2003. Currently, the FreeRADIUS supports all ID authentication protocols and data bases.

The FreeRADIUS whose 2.0.0 version was released at the beginning of 2008 has its latest version, 2.1.6, since its release in September 2009.

Note: The program is required to run as the root user with sudo authority. Apart from this freeradus server software must be installed.

Video: https://www.youtube.com/watch?v=BP8PxMf8yUk

FreeRAIUS · http://freeradius.org/

Wikipedia: https://en.wikipedia.org/wiki/FreeRADIUS

Source Code (GitHub): https://github.com/ismailtasdelen/Python-FreeRADIUS-Server-Configuration-Software