



JAVA VIRTUAL MACHINE AND JAVA SECURITY ARCHITECTURE

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Abstract

A virtual machine (VM) is a software implementation of a machine (i.e. a computer) that executes programs like a physical machine. Originally, Java was designed to run based on a virtual machine separated from a physical machine for implementing WORA (Write Once Run Anywhere), although this goal has been mostly forgotten. Therefore, the JVM runs on all kinds of hardware to execute the Java Bytecode without changing the Java execution code.

Java Virtual Machine (JVM) provides a safe place for Java programs (applets) to run in the world of the Internet. It is a machine inside a machine or it is machine at the heart of the Java platform. As matter of fact it is a machine that does not physically exist or there is no hardware implementation of this microprocessor available, but it exists only in the memory of our computers. The JVM has the main role to Java's portability because compiled Java programs run on the Java Virtual Machine. It is a platform-independent execution environment that converts Java byte code into machine language according to the operating system and executes it. It also allows you to run Java applets' inside your Web browser safely

Full text: <https://sites.google.com/a/ijrit.com/papers/home/V1I1162.pdf>