

VMware Server Module

Introduction

This module has been created to enable Avalanche to create and control virtual machines on target hosts.

Requirements

This module required VMware server (tested with version 1.0.4 build-56528) to be installed and configured on the machine it will be deployed on.

Architecture of the VMware module

TODO: Add class diagram

The VMware module consists of three important parts.

First of all the core: The VMWareVixLibrary class, which is the interface used to wrap the native library of the VMware VIX API into Java code using JNA (Java Native Access API). The wrapper class will be accessed directly only by the VMWareCommunicator class.

The VMWareServerManager exposes the remote interface of the VMware module. It controls the VMware server and the virtual machines using the communicator class.

The third part is the VMWareMessageListener, which is a component of its own which listens for XMPP-messages and converts them into call to the VMWareServerManager. The listener is the communication interface to remote applications but allows the VMware module itself to run independently.

Components of a virtual machine

Each virtual machine is stored in a separated folder. This is done for convenience reasons.

You can find the list of files which make up a virtual machine here:

http://www.vmware.com/support/ws5/doc/ws_learning_files_in_a_vm.html