

Automated Malware and Exploit Data Collection Tool Documentation

version 1.0

Software Practicum Team 3

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Welcome to Automated Malware and Exploit Data Collection Tool's documentation!

src

Entities package

Submodules

Entities.Entity module

```
class Entities.Entity.Entity
```

```
    Bases: abc.ABC
```

```
    abstract dictionary ()
```

```
        Converts an entity object to a dictionary.
```

```
    abstract objectFromDictionary (dict)
```

```
        Creates an object from a dictionary. :param dict: Dictionary containing the object information
```

Entities.Exploit module

```
class Entities.Exploit.Exploit (name="", type="", download_link="")
```

```
    Bases: Entities.Entity.Entity
```

```
    dictionary ()
```

```
        Generates a dictionary for the Exploit object :return: A dictionary with Exploit's data
```

```
    objectFromDictionary (dict)
```

```
        Creates an Exploit object from a dictionary. :param dict: A dictionary containing the Exploit's data :return: An Exploit object
```

Entities.NetworkSettings module

```
class Entities.NetworkSettings.NetworkSettings (network_name="", network_type="", ip_address="", auto_config=True)
```

```
    Bases: Entities.Entity.Entity
```

```
    dictionary ()
```

```
        Generates a dictionary for the NetworkSettings object :return: A dictionary with NetworkSettings' data
```

```
    objectFromDictionary (dict)
```

```
        Creates an NetworkSettings object from a dictionary. :param dict: A dictionary containing the NetworkSettings' data :return: A NetworkSettings object
```

Entities.Program module

```
class Entities.Program.Program (name="", location="")
```

```
    Bases: Entities.Entity.Entity
```

```
    dictionary ()
```

```
        Generates a dictionary for the Program object :return: A dictionary with Program's data
```

objectFromDictionary (dict)

Creates an Program object from a dictionary. :param dict: A dictionary containing the Program's data :return: A Program object

Entities.Provision module

```
class Entities.Provision.Provision (name="", provision_type='shell')
```

Bases: **Entities.Entity.Entity**

dictionary ()

Generates a dictionary for the Provision object :return: A dictionary with Provision's data

objectFromDictionary (dict)

Creates a Provision object from a dictionary. :param dict: A dictionary containing the Provision's data :return: A Provision object

setShellCommand (command)

Sets a new command to be executed as part of the provisioning :param command: Bash command intended for provisioning a virtual machine

Entities.Response module

```
class Entities.Response.Response (response="", reason="", status="", task_id="", body="")
```

Bases: **Entities.Entity.Entity**

dictionary ()

Generates a dictionary for the Response object :return: A dictionary with Response's data

objectFromDictionary (dict)

Creates a Response object from a dictionary. :param dict: A dictionary containing the Response data :return: A Response object

setBody (body)

Sets the body of a request. :param: String containing the request's body

setReason (reason)

Sets success/fail reason of a request. :param reason: String containing the request's reason

setResponse (response)

Sets the response of a request. :param response: String containing the request's response

setStatus (status)

Set the status of a request. :param status: String containing the request's status

setTaskID (task_id)

Sets the task ID of a request. :param task_id: String containing the request's task id

Entities.Scenario module

```
class Entities.Scenario.Scenario (scenario_name)
```

Bases: **Entities.Entity.Entity**

addVM (vm)

Adds a new virtual machine to this scenario :param vm: Object which carries the virtual machine data

dictionary ()

Generates a dictionary for the Scenario object :return: A dictionary with Scenario's data

objectFromDictionary (dict)

Creates a Scenario object from a dictionary. :param dict: A dictionary containing the Scenario's data :return: A Scenario object

setExploit (exploit)

Sets the exploit info for this scenario :param exploit: Object which carries the exploit info

setVulnerability (vulnerability)

Sets the vulnerability info for this scenario :param vulnerability: Object which carries the vulnerability info

Entities.VirtualMachine module

```
class Entities.VirtualMachine.VirtualMachine (name="", box='generic/alpine37', os="",
base_memory='1024', processors='2', is_attacker=False, shared_folders='./vmfiles', '/sharedfolder', uuid=")
```

Bases: **Entities.Entity.Entity**

addSharedFolder (hostPath, guestPath)

Adds the shared folder between the host and the guest :param hostPath: String with the host path :param guestPath: String with the guest path

dictionary ()

Generates a dictionary for the Virtual Machine object :return: A dictionary with Virtual Machine data

enableGUI (isVisible)

Enables the GUI for this virtual machine :param isVisible: Boolean to enable or disable the GUI in a virtual machine

objectFromDictionary (dict)

Creates a VirtualMachine object from a dictionary. :param dict: A dictionary containing the VirtualMachine's data :return: A VirtualMachine object

setBaseMemory (base_memory)

setName (name)

Sets the name for this virtual machine :param name: String with the virtual machine name

setNetworkSettings (network_settings)

Sets the network settings for this virtual machine :param network_settings: Object which carries the network settings data

setOS (os)

Sets the OS for this virtual machine :param os: String with the virtual machine OS

setProvision (i, provision)

Sets the provision for this virtual machine :param provision: Object which carries the provision data

Entities.Vulnerability module

```
class Entities.Vulnerability.Vulnerability (name="", type="", cve_link="", download_link=")
```

Bases: **Entities.Entity.Entity**

dictionary ()

Generates a dictionary for the VulnerabilityInfo object :return: A dictionary with VulnerabilityInfo data

objectFromDictionary (dict)

Creates a Vulnerability object from a dictionary. :param dict: A dictionary containing the Vulnerability's data :return: A Vulnerability object

Module contents

MainServer module

MainServer.addBoxByName ()

MainServer.addBoxByOVAFile ()

MainServer.createExploit (exploit_name)
Creates a new scenario which includes the folders and the scenario JSON file :param scenario_name: String with the scenario name :return: True if the new scenario was successfully created

MainServer.createScenario (scenario_name)
Creates a new scenario which includes the folders and the scenario JSON file :param scenario_name: String with the scenario name :return: True if the new scenario was successfully created

MainServer.createVulnerability (vulnerability_name)
Creates a new scenario which includes the folders and the scenario JSON file :param scenario_name: String with the scenario name :return: True if the new scenario was successfully created

MainServer.deleteExploit (exploit_name)
Edits a current scenario with a JSON file :param exploit_name: String with the scenario name :return: True if the scenario has been successfully edited, otherwise False

MainServer.deleteFile (file_name)

MainServer.deleteScenario (scenario_name)
Edits a current scenario with a JSON file :param scenario_name: String with the scenario name :return: True if the scenario has been successfully edited, otherwise False

MainServer.deleteVulnerability (vulnerability_name)
Edits a current scenario with a JSON file :param vulnerability_name: String with the scenario name :return: True if the scenario has been successfully edited, otherwise False

MainServer.editExploit ()
Edits a current scenario with a JSON file :param scenario_name: String with the scenario name :return: True if the scenario has been successfully edited, otherwise False

MainServer.editScenario ()
Edits a current scenario with a JSON file :param scenario_name: String with the scenario name :return: True if the scenario has been successfully edited, otherwise False

MainServer.editVulnerability ()
Edits a current scenario with a JSON file :param scenario_name: String with the scenario name :return: True if the scenario has been successfully edited, otherwise False

MainServer.getAvailableBoxes ()
Gets the available boxes in the Vagrant context :return: A list of string with the available boxes

MainServer.getExploit (exploit_name)
Gets the scenario as a JSON file :param exploit_name: String with the scenario name :return: JSON file with the scenario info

MainServer.getExploits ()
Gets the available scenarios :return: A list of strings with the available scenarios

MainServer.getFileList ()

MainServer.getScenario (scenario_name)
Gets the scenario as a JSON file :param scenario_name: String with the scenario name :return: JSON file with the scenario info

MainServer.getScenarios ()
Gets the available scenarios :return: A list of strings with the available scenarios

MainServer.getSystemInfo ()

MainServer.getTaskStatus (task_id)

Requests the status of an ongoing task from the VagranServer :param task_id: Task ID given by Celery :return: a json response that denotes the status of the task

`MainServer.getVulnerabilities ()`

Gets the available scenarios :return: A list of strings with the available scenarios

`MainServer.getVulnerability (vulnerability_name)`

Gets the scenario as a JSON file :param vulnerability_name: String with the scenario name :return: JSON file with the scenario info

`MainServer.removeBoxByName ()`

`MainServer.runVagrantUp (scenario_name)`

Executes the vagrant up command for each machine in the scenario :param scenario_name: String with the scenario name :return: True if the vagrant up commands were successfully executed

`MainServer.testPing (scenario_name, source, destination)`

Tests network connectivity between two virtual machines :param scenario_name: String with the scenario name :param source: Source virtual machine :param destination: Destination virtual machine :return:

`MainServer.uploadFile ()`

`MainServer.vagrantCommand (scenario_name, machine_name, command)`

Managers package

Submodules

Managers.ConfigManager module

`class Managers.ConfigManager.ConfigManager`

Bases: `object`

`mongoURL ()`

Sets the machine's URL running the MongoDB database. :return: MongoDB's URL string

`redisURL ()`

Sets the machine's URL running Redis. :return: Redis' URL string

`uploadURL ()`

Sets the machine's URL running the upload cloud. :return: Upload's URL string

`vagrantURL ()`

Sets the machine's url running vagrant. :return: Vagrant's URL string

Managers.DatabaseManager module

`class Managers.DatabaseManager.DatabaseManager`

Bases: `object`

`addExploitsToDB ()`

Pre-populates the database with exploits. :return: None

`addScenariosToDB ()`

Pre-populates the database with scenarios. :return: None

`addVulnerabilitiesToDB ()`

Pre-populates the database with vulnerabilities. :return: None

`deleteExploit (exploit_name)`

Deletes a exploit from the database. :param exploit_name: Exploit's name string :return: Deleted document's id

deleteScenario (scenario_name)

Deletes a scenario from the database. :param scenario_name: Scenario's name string :return: Deleted document's id

deleteVulnerability (vulnerability_name)

Deletes a vulnerability from the database. :param vulnerability_name: Vulnerability's name string :return: Deleted document's id

editExploit (exploit_json)

Edits an exploit in the database. :param exploit_json: JSON file containing the exploit's data :return: Modified document's id

editScenario (scenario_json)

Edits a scenario in the database. :param scenario_json: JSON file containing scenario's data :return: Modified document's id

editVulnerability (vulnerability_json)

Edits a vulnerability in the database. :param vulnerability_json: JSON file containing the vulnerability's data :return: Modified document's id

getExploit (exploit_name)

Gets an exploit from the database. :param exploit_name: Exploit's name string :return: A list containing the exploit data

getExploitNames ()

Gets the exploits names from the database. :return: A list containing the exploits' names

getExploits ()

Gets the exploits stored in the database. :return: A list containing the stored exploits' data

getScenario (scenario_name)

Gets a specific scenario from the database. :param scenario_name: Scenario's name string :return: A list containing the scenario retrieved from the database

getScenarioNames ()

Gets the scenario's names. :return: A list containing the scenarios names

getScenarios ()

Gets the scenarios from the databases. :return: A list containing scenarios in the database

getVulnerabilities ()

Gets the vulnerabilities stored in the database. :return: A list containing the stored vulnerabilities' data

getVulnerability (vulnerability_name)

Gets a vulnerability from the database. :param vulnerability_name: Vulnerability's name string :return: A list containing the vulnerability's data

getVulnerabilityNames ()

Gets the vulnerabilities names from the database. :return: A list containing the vulnerability's names

insertExploit (exploit_json)

Inserts a scenario in the database. :param exploit_json: JSON file containing the exploit's data :return: Inserted document's id

insertScenario (scenario_json)

Inserts a scenario into the database. :param scenario_json: Scenario's JSON file to be inserted :return: Inserted document's id

insertVulnerability (vulnerability_json)

Inserts a vulnerability in the database. :param vulnerability_json: JSON file containing the vulnerability's data :return: Inserted document's id

Managers.ExploitManager module

```
class Managers.ExploitManager.ExploitManager
(db_manager=<Managers.DatabaseManager.DatabaseManager object>)
  Bases: object

  deleteOne (exploit_name)
    Deletes an exploit from the database. :param exploit_name: Exploit's name string :return: Response object
    containing the status of the request

  editOne (exploit_json)
    Edits a current scenario with a JSON file :param exploit_json: JSON file with the exploit's data :return: Response
    object containing the status of the request

  getAll ()
    Gets the available exploits :return: Response object containing the status of the request

  getOne (exploit_name)
    Gets the scenario as a JSON file :param exploit_name: Exploit's name string :return: Response object
    containing the status of the request

  newEmpty (exploit_name)
    Creates a new exploit which includes the folders and the exploit JSON file :param exploit_name: String with the
    exploit name :return: Response object containing the status of the request
```

Managers.FileManager module

```
class Managers.FileManager.FileManager
  Bases: object

  createMachineFolders (scenario_json)
    Creates a folder for each machine in the scenario :param scenario_json: String with the scenario name :return:
    True if machine folders are created successfully

  createSaltFiles (scenario_json)
    Creates the salt files per each machine in a scenario. :param scenario_json: JSON containing the scenario data
    :return: Response object containing request info

  createSaltStackFolder (scenario_json)
    Creates a folder for each machine in the scenario :param scenario_json: String with the scenario name :return:
    True if machine folders are created successfully

  createScenarioFolders (scenario_json)
    Creates a scenario folder with the JSON, Exploit, Vulnerability and Machines subfolders :param scenario_json:
    String with the scenario name :return: True if the scenario is created successfully

  createSharedFolders (scenario_json)
    Creates the shared folder within a scenario. :param scenario_json: JSON containing the scenario data :return:
    Response object containing request info

  createVagrantFiles (scenario_json)
    Creates a vagrant file per machine in a scenario. :param scenario_json: JSON containing the scenario data
    :return: Response object containing request info

  deleteScenariosFolder (scenario_name)
    Deletes not used scenario folders. :param scenario_name: Scenario name as a string :return: None

  getCurrentPath ()
    test Gets the project folder path :return: String with the project path
```

getExploitJSONPath (exploit_name)

Gets exploit JSON path. :param exploit_name: Exploit name to search :return: Exploit path

getExploitsPath ()

Gets the exploits folder path :return: String with the exploit project path

getScenarioJSONPath (scenario_name)

Gets scenario JSON path inside a machine. :param scenario_name: Scenario name string :return: JSON path folder

getScenariosPath ()

Gets the scenarios folder path :return: String with the scenarios project path

getVulnerabilityJSONPath (vulnerability_name)

Gets vulnerability JSON path. :param vulnerability_name: Vulnerability name to search :return: Vulnerability path

purgeMachines (scenario_name, safe_machines)

Deletes machines that no longer exist within the scenario. :param scenario_name: Scenario name as a string :param safe_machines: Collection containing machines that must remain within the scenario :return: None

Managers.ScenarioManager module

```
class                                     Managers.ScenarioManager.ScenarioManager
```

```
(db_manager=<Managers.DatabaseManager.DatabaseManager object>)
```

Bases: **object**

deleteOne (scenario_name)

Deletes one scenario from the database. :param scenario_name: Scenario's name string :return: Response object containing the status of the request

editOne (scenario_json)

Edits a current scenario with a JSON file :param scenario_json: JSON file with the new scenario :return: Response object containing the status of the request

getAll ()

Gets the available scenarios :return: Response object containing the status of the request

getOne (scenario_name)

Gets the scenario as a JSON file :param scenario_name: String with the scenario name :return: Response object containing the status of the request

newEmpty (scenario_name)

Creates a new scenario which includes the folders and the scenario JSON file :param scenario_name: String with the scenario name :return: Response object containing the status of the request

scenarioExists (scenario_name)

Check if a scenario exists. :param scenario_name: String with the scenario name :return: False if the scenario JSON file does not exist and the path to the JSON file if it exist

Managers.VulnerabilityManager module

```
class                                     Managers.VulnerabilityManager.VulnerabilityManager
```

```
(db_manager=<Managers.DatabaseManager.DatabaseManager object>)
```

Bases: **object**

deleteOne (vulnerability_name)

Deletes a vulnerability from the database. :param vulnerability_name: Vulnerability's name string :return: Response object containing the status of the request

editOne (vulnerability_json)

Edits a current scenario with a JSON file :param vulnerability_json: JSON file new vulnerability :return: Response object containing the status of the request

getAll ()

Gets the available exploits :return: Response object containing the status of the request

getOne (vulnerability_name)

Gets the scenario as a JSON file :param vulnerability_name: Vulnerability's name string :return: Response object containing the status of the request

newEmpty (vulnerability_name)

Creates a new vulnerability which includes the folders and the vulnerability JSON file :param vulnerability_name: String with the vulnerability name :return: Response object containing the status of the request

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