SERVERMARK™

Virtual Desktop Infrastructure

Command Line Guide

Updated August 27, 2018 for use with
Servermark v1.0.19

Installation

When installing the Servermark controller using a command line the following options are available.

```
ServermarkVdi-setup.exe [options]
```

Command	Description
/installpath=<install path>	Defines the install path, default is C:\Program Files (x86) \UL\ServermarkVdi
/quiet /silent	Silent install, display no user interface
/force	Force install
/install	Installs the product (Default)
/uninstall	Uninstalls the product

⚠ Running the installer while using elevated permissions can cause the application to function incorrectly. Please avoid running the installer with elevated permissions until prompted.

Usage

Run the program from a command line:

```
ServermarkVdiCmd.exe [options]
```

Options

The parameters to an option can be given either with a space in between:

`--out myresult.servermarkvdi-result`

or with an equal sign:

`--out=myresult.servermarkvdi-result`

Command	Description
`-d=‹benchmark.smvdef›` `--definition=‹benchmark.smvdef›`	Specifies the benchmark definition XML file that defines the tests and settings to be used. See description below on benchmark definition files.
`-i=‹file.servermarkvdi-result›` `--in=‹file.servermarkvdi-result›`	Load the given result file. To be used in conjunction with --export to export the result file as xml.
`-o=‹file.servermarkvdi-result›` `--out=‹file.servermarvdik-result›`	Save the benchmark results to the given result file.
`--export ‹file›`	Export the benchmark results to the given XML file.
`--log ‹file›`	Save benchmark progress log to . Logging does not affect scores. If this option is not used, the last 1000 lines of logging are saved to the default location: C:\Users*username*\Documents\ServermarkVdi\Log\Servermark.log
`--debug-log`	Enable per workload debug logging. Log files for each workload run are saved to: C:\Users*username*\Documents\ServermarkVdi\Log
`--register=‹benchmark product key›`	Register Servermark VDI with the given key.
`--list-product-keys`	List all Servermark VDI product keys.
`--unregister`	Unregister all Servermark VDI keys.

`--unregister=<benchmark product key>`	Unregister given Servermark VDI key.
`-h` `--help`	Prints the available command line options.
`--trace`	Verbose logging

Examples

These examples assume that there is a settings file `my_vdi.smvdef` in the default folder "`C:\Program Files (x86)\UL\ServermarkVdi`" which contains the necessary updated settings, and that the user has write permissions to the same directory.

Run Servermark VDI benchmark

Run Servermark VDI benchmark.

```
ServermarkVdiCmd.exe --definition=my_vdi.smvdef
```

Run Servermark VDI benchmark with verbose logging.

```
ServermarkVdiCmd.exe --definition=my_vdi.smvdef --trace
```

Definition XML files

Servermark comes with example definition files that you should modify to set up and run a benchmark. By default, these definition files can be found in:

`C:\Program Files (x86)\UL\ServermarkVdi`

Command	Description
`smv_universalvdibenchmark.smvdef`	Run Servermark Universal VDI benchmark
`smv_vmwarevdibenchmark.smvdef`	Run Servermark VMware VDI benchmark

Definition XML examples

Servermark Universal VDI benchmark example definition file

```xml
<?xml version="1.0" encoding="utf-8"?>
<benchmark>
  <application_info>
    <selected_workloads>
      <selected_workload name="ServermarkVdiUniversalDefault"/>
    </selected_workloads>
  </application_info>
  <settings>
    <setting>
      <name>clients</name>
      <value>[{ "host" : "localhost", "port" : "10002" }]</value>
    </setting>
    <setting>
      <name>workload</name>
      <value>pcmark10_productivity</value>
    </setting>
    <setting>
      <name>duty_cycle</name>
      <value>100</value>
    </setting>
      <setting>
      <name>limit_passing</name>
      <value>1500</value>
    </setting>
    <setting>
      <name>log_types</name>
      <value>["console"]</value>
    </setting>
    <setting>
      <name>log_level</name>
      <value>1</value>
    </setting>
  </settings>
</benchmark>
```

Servermark VMware VDI benchmark example definition file

```xml
<?xml version="1.0" encoding="utf-8"?>
<benchmark>
```

```
<application_info>
  <selected_workloads>
    <selected_workload name="ServermarkVdiVMwareDefault"/>
  </selected_workloads>
</application_info>
<settings>
  <setting>
    <name>workload</name>
    <value>pcmark10_productivity</value>
  </setting>
  <setting>
    <name>duty_cycle</name>
    <value>100</value>
  </setting>
  <setting>
    <name>server_address</name>
    <value>https://10.12.13.14/sdk</value>
  </setting>
  <setting>
    <name>server_username</name>
    <value>username</value>
  </setting>
  <setting>
    <name>server_password</name>
    <value>password</value>
  </setting>
    <setting>
    <name>server_entry_point</name>
    <value>datacenterName</value>
  </setting>
  <setting>
    <name>template_name</name>
    <value>templateName</value>
  </setting>
    <setting>
    <name>limit_passing</name>
    <value>1500</value>
  </setting>
    <setting>
    <name>run_timeout</name>
    <value>1800</value>
  </setting>
    <setting>
    <name>port</name>
    <value>10002</value>
  </setting>
    <setting>
    <name>epsilon_percent</name>
    <value>5</value>
  </setting>
    <setting>
```

```
    <name>warmup_seconds</name>
    <value>60</value>
  </setting>
  <setting>
    <name>log_types</name>
    <value>["console"]</value>
  </setting>
  <setting>
    <name>log_level</name>
    <value>1</value>
  </setting>
  </settings>
</benchmark>
```

VDI definition file settings

Benchmark	Parameter	Description
Universal	clients	This is a list of Servermark clients. You can use IPv4, IPv6 and hostnames to specify a client. { "host" : "localhost", "port" : "10002" } - A Servermark client
VMware	server_address	Address for VMware server
VMware	server_username	Username for logging at VMware
VMware	server_password	Password for logging at VMware
VMware	server_entry_point	Name of the datacenter
VMware	template_name	Name of the template
VMware	run_timeout	Maximum time allowed for receiving a score from the virtual machine, seconds
VMware	epsilon_percent	Represents the degree to which the

		result of a whole benchmark conforms to the correct value. Accuracy. Percentage
VMware	warmup_seconds	Warm up phase. Window time for starting the workload on the virtual machine
Universal & VMware	workload	Workload available: pcmark10_essentials pcmark10_productivity pcmark10_digitalcontentcreation pcmark10_gaming pcmark8_work2.0
Universal & VMware	duty_cycle	Number of active virtual machines. Integer number between 0 and 100
Universal & VMware	limit_passing	Minimum score for passing the round. PCMark 10 Essentials = 4100 PCMark 10 Productivity = 4500 PCMark 10 Digital Content Creation = 3000 PCMark 10 Gaming = 1500 PCMark 8 Work 2.0 (Conventional) = 2200
Universal & VMware	log_types	Default value, ["console"]
Universal & VMware	log_level	Default value, 1, verbosity disabled. Optional value, 2, verbosity enabled.