

ctys-attribute

Manage attributes of plugins, VMs, and PMs.

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1 NAME

ctys-attribute - Manage attributes of plugins, VMs, and PMs.

2 SYNTAX

ctys-attribute

```
[--attribute-create[=<position>]]
[--attribute-delete[=<occurrence>]]
[--attribute-replace[=<occurrence>]]

(
[
  --attribute-keyonly
  --attribute-name=<attr-name>
|
(
[
  --attribute-name=<attr-name>
  --attribute-value-new=<attr-val-list>
|
[
  --attribute-name=<attr-name>
  --attribute-value-new=<attr-val-list>
  --attribute-value-old=<attr-val-list>
]
)
)

[-d <debug-level>]
[-h]
[-H <help-options>]
[--list]
[-t <session-type>]
[-V]
[-X]
<file-name-list>

<attr-val-list>:=<attr-val>[%<attr-val-list>]

<file-name-list>:=<file-name>[ <file-name-list>]

<occurrence>:=(
  first|last|all
  #nr
)
#nr=1-9999999

          default:=first

<position>:=(
  top|bottom
  #line
)
```

```
#line=1-9999999
default:=top
```

3 DESCRIPTION

ATTENTION: This document is under development, therefore just a temporary pre-release, which may change in future versions. The software is alpha-release.

ctys-attribute provides the management of runtime attributes for dynamic and persistent plugins, VMs, and PMs. The attributes of the persistent data are utilized for the handling of machine information for selection, inventory management, and execution.

The current version supports **offline-modification** only. The **cacheDB** has to be updated either by new automated scan or by manual modification. Both may be extended in new versions.

The file is either scanned for specific attributes, or just a new attribute value assignment is inserted. Therefore various types of attribute syntaxes from the various supported namespaces are recognized. The following namespaces are currently supported:

Namespace	Syntax	VM-Config	Applicable Tools
ctys-configuration	ctys	'#@#'-prefixes	ctys-attribute, ctys-groups,
			ctys-macros, ctys-scripts,
			Text-Editor
QEMU/KVM	ctys	'#@#'-prefixes	ctys-attribute, Text-Editor
shell	bash	variables	ctys-attribute, Text-Editor
VirtualBox conf-files+repository 1.)	VBoxManage,XML	call parameters	ctys-attribute, Text-Editor,
			VBoxManage, VirtualBox-GUI
VMware conf-files+repository 2.)	vmx	keywords	ctys-attribute, Text-Editor,
			Vmware-GUI
Xen conf-files	Python	variables	ctys-attribute, Text-Editor

Table 1: Supported Attribute Namespaces

- 1.) Not all keywords are supported yet.
Native OEM tools are required in addition.
- 2.) The repository is not supported yet.
Native OEM tools are required in addition.

4 OPTIONS

-attribute-create=<position>

Create a new entry, this is done without recognition of presence. For sequential scan the position could be provided for order-priority.

-attribute-delete=<occurrence>

Delete an entry, for sequential scan the position could be provided for order-priority.

-attribute-keyonly

Creates a key only, an attribute without an assigned value.

-attribute-name=<attr-name>

The name of the attribute to be modified.

-attribute-value-new=<attr-val-list>

The list of new attributes to be set.

-attribute-value-old=<attr-val-list>

The list of old attributes to be replaced. Missing attributes are ignored.

-d <debug-level>

Same as ctys.

-directory=<directory>

Directory for storage of created configuration files.

-h|help|help

Print help, refer to "-H" for additional information.

-H <help-option>

The extended help option is based on system interfaces for display of manpages, PDF and HTML documents. This comprises the man pages and installed manuals.

For additional help refer to the documents or type **ctys -H help**.

-list

The list of present attributes.

-t <session-type>

The session type the VM has to be created for. Currently **QEMU** (for QEMU and KVM on x86), **VMW**, **VBOX**, and **XEN** are supported. Each defines a common set of parameters with additional specific variations.

-V

Version.

-X

Terse.

5 ARGUMENTS

<file-name-list> : List of files to be modified.

6 EXAMPLES

1. List XEN configuration file:

```
ctys-attribute --list tst01.conf
```

2. List CTYS configuration file:

```
ctys-attribute --list tst01.ctys
```

3. Deactivate a from ENUMERATE:

```
ctys-attribute \
--attribute-keyonly \
--attribute-create=TOP \
--attribute-name=MAGICID-IGNORE \
tst01.conf
```

4. Activate for ENUMERATE:

```
ctys-attribute \
--attribute-keyonly \
--attribute-delete=TOP \
--attribute-name=MAGICID-IGNORE \
tst01.conf
```

```
ctys-attribute \
--attribute-keyonly \
--attribute-create=TOP \
--attribute-name=MAGICID-VMW \
tst01.conf
```

5. Replace all values of an attribute in XEN configuration file:

```
ctys-attribute \
--attribute-name='kernelbase' \
--attribute-replace=ALL \
--attribute-value-new="/nboot1" \
tst01.conf
```

6. Replace string in all values of an attribute in XEN configuration file:

```
ctys-attribute \
--attribute-name='kernelbase' \
--attribute-replace=ALL \
--attribute-value-new="/nboot1" \
--attribute-value-old="/boot" \
tst01.conf
```

7. Replace string in **FIRST** value of an attribute in XEN configuration file:

```
ctys-attribute \
--attribute-name='kernelbase' \
--attribute-replace=FIRST \
--attribute-value-new="/nboot1" \
--attribute-value-old="/boot" \
tst01.conf
```

8. Replace string in **LAST** value of an attribute in XEN configuration file:

```
ctys-attribute \
--attribute-name='kernelbase' \
--attribute-replace=LAST \
--attribute-value-new="/nboot1" \
--attribute-value-old="/boot" \
tst01.conf
```

9. Replace string in **2.** value of an attribute in CTYS configuration file:

```
ctys-attribute \
--attribute-name='kernelbase' \
--attribute-replace=2 \
--attribute-value-new="/nboot1" \
--attribute-value-old="/boot" \
tst01.conf
```

10. Replace all values of an attribute in CTYS configuration file:

```
ctys-attribute \
--attribute-name='WRAPPERCALL' \
--attribute-replace=ALL \
--attribute-value-new=""123"" \
tst01.ctys
```

11. Create new attribute value assignment in CTYS configuration file:

```
ctys-attribute \
--attribute-create=TOP \
--attribute-name='NEWATTR' \
--attribute-value-new=""123"" \
tst01.ctys
```

12. Create new attribute value assignment in CTYS configuration file:

```
ctys-attribute \
--attribute-create=BOTTOM \
--attribute-name='NEWATTR' \
--attribute-value-new=""123"" \
tst01.ctys
```

13. Create new attribute value assignment in CTYS configuration file:

```
ctys-attribute \
--attribute-create=15 \
--attribute-name='NEWATTR' \
--attribute-value-new=""123"" \
tst01.ctys
```

14. Delete first occurrence of an attribute in CTYS configuration file:

```
ctys-attribute \
--attribute-delete \
--attribute-name='NEWATTR' \
tst01.ctys
```

or

```
ctys-attribute \
--attribute-delete=1 \
--attribute-name='NEWATTR' \
tst01.ctys
```

15. Delete ALL occurrences of an attribute in CTYS configuration file:

```
ctys-attribute \
--attribute-delete=ALL \
--attribute-name='NEWATTR' \
tst01.ctys
```

7 EXIT-VALUES

0: OK: Result is valid.

1: NOK: Erroneous parameters.

2: NOK: Missing an environment element like files or databases.

8 SEE ALSO

ctys specifications

ctys-machine-states(7)

ctys executables

ctys-createConfVM(1) ,
ctys-cloneVM(1)

ctys plugins PMs

ctys-PM(1)

VMs

KVM(1) , *ctys-QEMU(1)* , *ctys-VBOX(1)* , *ctys-VMW(1)* , *ctys-XEN(1)*

HOSTS

ctys-CLI(1) , *ctys-RDP(1)* , *ctys-VNC(1)* , *ctys-X11(1)*

9 AUTHOR

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<<https://github.com/unifiedsessionsmanager>>



10 COPYRIGHT

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