1 CheatSheet: VMware Nimbus

VMWARE

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- PDF Link: cheatsheet-nimbus-A4.pdf, Category: VMware
- Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-nimbus-A4
- \bullet Related posts: Prometheus CheatSheet, Nagios CheatSheet, #denny-cheatsheets

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1.1 Nimbus Basic

Name	Summary
Nimbus	VMware's internal vSphere based cloud written in Ruby
Nimbus Cloud	Nimbus cloud contains a lot of ESX hosts. Nimbus Pods can seen as data centers.
Nimbus Pod	It is created during a vSphere setup, after setup, it contains one VC and associated ESX hosts.
Nimbus Site	Each site is a separate Nimbus cloud with all of its peripherals. Currently we have: SC and WDC
nimbus-ctl	Ruby CLI for vmomi client
All nimbus tools	/mts/git/bin/nimbus*

https://raw.githubusercontent.com/dennyzhang/cheatsheet.dennyzhang.com/master/cheatsheet-nimbus-A4/nimbus.png

1.2 vsphere resource

Name	Summary
Data center	
Resource pool	
VM folder	
Host group	
vcs	
dvs	

1.3 Nimbus CLI

Name	Summary
List Testbed	/mts/git/bin/nimbus-ctltestbed list
List all VMs of one testbed	/mts/git/bin/nimbus-ctltestbed list \$testbed_name
Destroy a testbed/VM $$	<pre>/mts/git/bin/nimbus-ctltestbed kill \$testbed_name</pre>
Extend lease of a testbed	<pre>/mts/git/bin/nimbus-ctllease 5testbed extend-lease \$testbed_name</pre>
List ip of all VMs	/mts/git/bin/nimbus-ctl ip
Choose nimbus location	NIMBUS_LOCATION=wdc /mts/git/bin/nimbus-ctl ip
Specify nimbus userid	USER=someusername /mts/git/bin/nimbus-ctl list
List all snapshot	NIMBUS=\${POD} /mts/git/bin/nimbus-ctl -testbed list-snapshot
Take snapshot for a testbed	NIMBUS=sc-prd-vc012 /mts/git/bin/nimbus-ctl -outputPath=\$HOME screenshot denny-snapsho
Take snapshot for a testbed	$NIMBUS = \$\{POD\} / mts/git/bin/nimbus-ctl - testbed - snapshotIncludeMemory - snapshot \$snapshot - snapshot - snapshotIncludeMemory - snapshot - snapshot - snapshotIncludeMemory - snapshot - snapsh$
Take snapshot for a vm	$NIMBUS = \$\{POD\} / mts/git/bin/nimbus-ctl - snapshotIncludeMemory - snapshot \$snapshotname + snapshotNemory - snapshot - snapshotNemory - snapshotNemory - snapshot - snapshotNemory - snapshot - snapshotNemory - snapshot - snapshotNemory - snapshotNemory - snapshot - snapshotNemory - snapshot - snapshotNemory - snapshot - snapshotNemory - snapshotNemory - snapshot - snapshotNemory - snapshot - snapshotNemory - snapshotNe$
Revert all snapshot	NIMBUS=\${POD} /mts/git/bin/nimbus-ctl -testbed -snapshot \$snapshotname revert-snapshot \$
Reference	Gitlab: nimbus
Reference	CheatSheet: VMware Govmomi, CheatSheet: VMware Nimbus

1.4 Deploy Workload In Nimbus

Name	Summary
Nimbus testbed spec file	A json/ruby spec file to setup on-demand nimbus testbed.
List Supported VM Templates	/mts/git/bin/nimbus-genericdeploylist
Deploy with a spec file	/mts/git/bin/nimbus-testbeddeploytestbedSpecRubyFile testbed_iscsi.rbrunl
Deploy NSX Manager	/mts/git/bin/nimbus-nsxmdeploylease 7nsxBuild ob-7946221 nsxm-ob-7946221-
Deploy NSX Controller	/mts/git/bin/nimbus-nsxcdeploylease 7nsxBuild ob-7946221 nsxc-ob-7946221-
Deploy NFS with 1 mount point	/mts/git/bin/nimbus-nfsdeploydisk 134217728mountPoint /storage-1 cbrc-nfs
Deploy: 1 vcva, 2 ESX, 2 iscsi	Sample: testbed-iscsi.rb
Deploy: 1 vsan	Sample: testbed-vsan.rb
Deploy Concourse	Sample: Deploy a Concourse Instance on Nimbus
Reference	Link: TestbedSpec, Demo: Deploy Your First Nimbus Testbed
Reference	Link: Logic of part of Nimbus-testbeddeploy code

1.5 nimbus tools

```
-bash-4.1$ ls -lt /mts/git/bin/nimbus*
                            137 Dec 10 17:27 /mts/git/bin/nimbus-nsx-auto-edge-deploy
-rwxr-xr-x 1 syncer mts
                            133 Nov 19 22:32 /mts/git/bin/nimbus-nsxTsrm-deploy
-rwxr-xr-x 1 syncer mts
                             129 Nov 19 22:32 /mts/git/bin/nimbus-vmip-retrive
-rwxr-xr-x 1 syncer mts
                            129 Sep 29 2018 /mts/git/bin/nimbus-tbspec-search
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            134 Aug 16 2018 /mts/git/bin/nimbus-srmphoton-deploy
                            125 Jul 20 2018 /mts/git/bin/nimbus-racetrack
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            134 Jun 13 2018 /mts/git/bin/nimbus-srm-vr-jenkin-job
-rwxr-xr-x 1 syncer mts
                            127 Jun 13 2018 /mts/git/bin/nimbus-vr-deploy
                            133 Jan 4 2018 /mts/git/bin/nimbus-post-deployer-def
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            128 Dec 20 2017 /mts/git/bin/nimbus-ldap-dump-pg
                            144 Nov 20 2017 /mts/git/bin/nimbus-ucp-deploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            609 Aug 20 2017 /mts/git/bin/nimbusvc-base
                            139 Aug 17 2017 /mts/git/bin/nimbus-setup-master
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            192 Jul 3 2017 /mts/git/bin/nimbus-testbed-clone
                            141 Jul 3 2017 /mts/git/bin/nimbus-vca-wanopt-deploy
-rwxr-xr-x 1 syncer mts
                            144 Jun 12
                                        2017 /mts/git/bin/nimbus-worker-deploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts 33791680 Jan 30 2017 /mts/git/bin/nimbus_recommend
                           3394 Dec 16 2016 /mts/git/bin/nimbus-vropsloginsight-test-launcher
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            205 Oct 31 2016 /mts/git/bin/nimbus
                            185 Oct 31 2016 /mts/git/bin/nimbus-testbeddeploy
-rwxr-xr-x 1 syncer mts
                            185 Oct 31 2016 /mts/git/bin/nimbus-test-launcher
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            185 Oct 31 2016 /mts/git/bin/nimbus-vcqa-launcher
                            125 Oct 30
                                        2016 /mts/git/bin/nimbus-ldap-dump
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            135 Sep 27
                                        2016 /mts/git/bin/nimbus-failure-investigate
-rwxr-xr-x 1 syncer mts
                            145 Aug 31
                                        2016 /mts/git/bin/nimbus-fiaasco-deploy
                            127 Jun 8
                                        2016 /mts/git/bin/nimbus-srm-install
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            134 Jun 8
                                        2016 /mts/git/bin/nimbus-srmtestbed-deploy
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-rwxr-xr-x 1 syncer mts
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                            134 May 13 2016 /mts/git/bin/nimbus-vcsa-inbox-upgrade
-rwxr-xr-x 1 syncer mts
                            148 May 4 2016 /mts/git/bin/nimbus-one-cloud-esxdeploy
-rwxr-xr-x 1 syncer mts
                            148 May 4 2016 /mts/git/bin/nimbus-one-cloud-vcvadeploy
-rwxr-xr-x 1 syncer mts
                            132 Mar 31 2016 /mts/git/bin/nimbus-post-config-hdrs
                            127 Mar 2 2016 /mts/git/bin/nimbus-vum-install
-rwxr-xr-x 1 syncer mts
                            131 Feb 2 2016 /mts/git/bin/nimbus-quick-pod-setup
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            130 Jan 28 2016 /mts/git/bin/nimbus-upgrade-ciswin
                            136 Jan 22 2016 /mts/git/bin/nimbus-vrdeploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            142 Dec 23 2015 /mts/git/bin/nimbus-vcopsdeploy
                            138 Dec 23
-rwxr-xr-x 1 syncer mts
                                        2015 /mts/git/bin/nimbus-vcg-deploy
-rwxr-xr-x 1 syncer mts
                            127 Dec 9
                                        2015 /mts/git/bin/nimbus-post-config
-rwxr-xr-x 1 syncer mts
                            155 Nov 21
                                        2015 /mts/git/bin/nimbus-hostdsim-deploy
                            149 Nov 9
                                        2015 /mts/git/bin/nimbus-vrops-deploy
-rwxr-xr-x 1 syncer mts
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                                     3
                                        2015 /mts/git/bin/nimbus-nsxcdeploy
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-rwxr-xr-x 1 syncer mts
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-rwxr-xr-x 1 syncer mts
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                             144 Aug 2 2015 /mts/git/bin/nimbus-sampledeploy
-rwxr-xr-x 1 syncer mts
                             129 May 12 2015 /mts/git/bin/nimbus-testesxdeploy
-rwxr-xr-x 1 syncer mts
                             138 May 12 2015 /mts/git/bin/nimbus-testesxdeploy-launcher
                             155 Apr 24
-rwxr-xr-x 1 syncer mts
                                         2015 /mts/git/bin/nimbus-powercli-install
                             146 Apr 23
                                         2015 /mts/git/bin/nimbus-network-deploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             142 Apr
                                     8 2015 /mts/git/bin/nimbus-uiplatform-vamiui-test-run
-rwxr-xr-x 1 syncer mts
                             714 Mar 24
                                        2015 /mts/git/bin/nimbus-rvc
-rwxr-xr-x 1 syncer mts
                             148 Mar 16 2015 /mts/git/bin/nimbus-mobagent-deploy
                             142 Mar 16 2015 /mts/git/bin/nimbus-fakepmdeploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             146 Feb 18 2015 /mts/git/bin/nimbus-vra-deploy
-rwxr-xr-x 1 syncer mts
                             138 Feb 2 2015 /mts/git/bin/nimbus-vcddeploy
-rwxr-xr-x 1 syncer mts
                             138 Jan 28
                                         2015 /mts/git/bin/nimbus-vsmdeploy
                             140 Jan 28
                                         2015 /mts/git/bin/nimbus-vcdeploy-cat
-rwxr-xr-x 1 syncer mts
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                             138 Jan 28
                                         2015 /mts/git/bin/nimbus-vcvadeploy
-rwxr-xr-x 1 syncer mts
                             138 Jan 28
                                         2015 /mts/git/bin/nimbus-psadeploy
-rwxr-xr-x 1 syncer mts
                             141 Jan 28 2015 /mts/git/bin/nimbus-vcbench-deploy
                             138 Jan 28 2015 /mts/git/bin/nimbus-pdp-deploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             147 Jan 28 2015 /mts/git/bin/nimbus-physical-esxdeploy
-rwxr-xr-x 1 syncer mts
                             152 Jan 28
                                         2015 /mts/git/bin/nimbus-loginsightdeploy
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                             138 Jan 20 2015 /mts/git/bin/nimbus-ovfdeploy
-rwxr-xr-x 1 syncer mts
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                                         2015 /mts/git/bin/nimbus-iscsideploy
-rwxr-xr-x 1 syncer mts
                             168 Jan 12 2015 /mts/git/bin/nimbus-esxdeploy-ob
-rwxr-xr-x 1 syncer mts
                             146 Jan 6 2015 /mts/git/bin/nimbus-genericdeploy
-rwxr-xr-x 1 syncer mts
                             138 Jan 6 2015 /mts/git/bin/nimbus-esxdeploy
                             138 Dec 29
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                             130 Aug 6
                                         2014 /mts/git/bin/nimbus-ovftool-deploy
-rwxr-xr-x 1 syncer mts
                             132 Aug 4 2014 /mts/git/bin/nimbus-docker-ovfdeploy
-rwxr-xr-x 1 syncer mts
                             140 Jul 30
                                         2014 /mts/git/bin/nimbus-uiplatform-icui-test-run
                             139 Jul 30 2014 /mts/git/bin/nimbus-uiplatform-vui-test-run
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                             119 Jul 19 2014 /mts/git/bin/nimbus-ctl
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                             129 Jul 19 2014 /mts/git/bin/nimbus-hostdsim-kill
-rwxr-xr-x 1 syncer mts
                             127 Jul 19 2014 /mts/git/bin/nimbus-nimbussetup
                             121 Jul 19 2014 /mts/git/bin/nimbus-touch
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             132 Jul 18
                                        2014 /mts/git/bin/nimbus-hostdsim-prepare
                             124 Jul 18 2014 /mts/git/bin/nimbus-test-esx
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             127 Jul 17
                                         2014 /mts/git/bin/nimbus-config-util
-rwxr-xr-x 1 syncer mts
                             121 Jul 3
                                         2014 /mts/git/bin/nimbus-vmserial
                             135 Jun 19
                                         2014 /mts/git/bin/nimbus-vc-upgrade-and-test
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             129 May 29
                                         2014 /mts/git/bin/nimbus-h5-run-testng
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                             133 May 29
                                         2014 /mts/git/bin/nimbus-hostclient-deploy
-rwxr-xr-x 1 syncer mts
                             130 May 29
                                         2014 /mts/git/bin/nimbus-ngc-run-testng
-rwxr-xr-x 1 syncer mts
                             137 May 29
                                         2014 /mts/git/bin/nimbus-uiplatform-run-testng
-rwxr-xr-x 1 syncer mts
                             133 May 29
                                         2014 /mts/git/bin/nimbus-vcd-supportbundle
-rw-r--r-- 1 syncer mts
                             128 May 29
                                         2014 /mts/git/bin/nimbus-vcva-upgrade
-rwxr-xr-x 1 syncer mts
                             133 May 29
                                         2014 /mts/git/bin/nimbus-vc-windows-deploy
                             133 May 29
                                         2014 /mts/git/bin/nimbus-vsm-supportbundle
-rwxr-xr-x 1 syncer mts
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                                         2014 /mts/git/bin/nimbus-analyze-supportbundle
-rwxr-xr-x 1 syncer mts
                             128 May 14
                                         2014 /mts/git/bin/nimbus-physical-ctl
-rwxr-xr-x 1 syncer mts
                             134 Aug 14
                                         2013 /mts/git/bin/nimbus-autoinstalls
                             202 Apr 22
                                         2013 /mts/git/bin/nimbus-legacy-rvc
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             155 Apr 21
                                         2011 /mts/git/bin/nimbus-vim-cat-launcher
-rwxr-xr-x 1 syncer mts
                             130 Feb 18
                                         2011 /mts/git/bin/nimbus-clui
-rwxr-xr-x 1 syncer mts
                             147 Feb 18
                                         2011 /mts/git/bin/nimbus-ddt-esx
-rwxr-xr-x 1 syncer mts
                             107 Feb 18 2011 /mts/git/bin/nimbus-rlui
                                         2011 /mts/git/bin/nimbus-vc
-rwxr-xr-x 1 syncer mts
                             143 Feb 18
-rwxr-xr-x 1 syncer mts
                             130 Jan 11
                                         2011 /mts/git/bin/nimbusvc-clui
```

-rwxr-xr-x 1 syncer mts 127 Jan 11 2011 /mts/git/bin/nimbusvc-vcdeploy

1.6 nimbus-ctl CLI Online Help

-bash-4.1\$ /mts/git/bin/nimbus-ctl --help Control VMs in the Nimbus cloud.

Usage:

nimbus-ctl [options] cmd <vm-names|testbed-name>

Commands: list tools_status tools_status host_name host-name on off kill reset destroy suspend is_on is-on ip screenshot console vc_supportbundle vc-supportbundle esx_supportbundle esx_supportbundle hostdsim_supportbundle genericvm_supportbundle genericvm_supportbundle workervm_supportbundle workervm_supportbundle samplevp_suppor vcdb_errorlogbundle vcdb-errorlogbundle vcdb_dbcopy vcdb-dbcopy vcdb_dbdump vcdb-dbdump dumpstats associated_nfsvm_supportbundle create_snapshot create_snapshot list_snapshot list_snapshot revert_snapshot revert_snapshot get-extra-cfg set_ovf_params set-ovf_params shutdown rename vropsvm_supportbundle vropsvm-supportbundle tag status is supportbundle vropsvm-supportbundle tag status is supportbundle vcdb_dbcopy vcdb_dbcopy vcdb_dbcopy vcdb_dbdump vcdb_dbdump dumpstats associated_nfsvm-supportbundle create_snapshot revert_snapshot revert_sna

VMs could be:

1. One or multiple vm names, for example:

2. Wildcards vm name, for example:

```
nimbus-ctl kill '*'  # to kill all VMs
nimbus-ctl kill '*esx*'  # to kill all VMs whose name contain 'esx'
```

To control a testbed:

1. List all testbeds

```
nimbus-ctl --testbed list
```

2. Destroy a testbed

```
nimbus-ctl --testbed kill testbed-name
```

3. Extend lease of a testbed

```
nimbus-ctl --lease 5 --testbed extend-lease testbed-name
```

Other options:

-m, --nimbus=<s>

-c, --context=<s>

-e, --excludedPod=<s>

```
-d, --debug
                               Log SOAP messages
-o, --outputPath=<s>
                               Path to put stuff in
-p, --path=<s>
                               Folder Path to search the VM
-f, --filename=<s>
                               Name of the file generated (applicable to support bundles)
-i, --file-prefix=<s>
                               Name of the file generated without the extension (applicable to support bund
-1, --lease=<f>
                               Days to extend the lease by
                               Authentication info for VM operations
-u, --username=<s>
                               Authentication info for VM operations
-a, --password=<s>
--vimUsername=<s>
                               Since VC6.0, VIM uses different credantial from VM guest, this option is use
--vimPassword=<s>
                               Since VC6.0, VIM uses different credantial from VM guest, this option is use
-b, --bora=<s>
-T, --dbType=<s>
                               This option is used to specify the DB type for the commands vcdb-logbundle a
```

 $Git Hub: \ https://github.com/dennyzhang/cheatsheet.dennyzhang.com/tree/master/cheatsheet-nimbus-A4$

exclusion pod for operation

nimbus pod name

nimbus pod context

-s, --nimbusConfigFile=<s> nimbus pod config json file -h, --snapshot=<s> Name of snapshot -I, --snapshotIncludeMemory Whether to include memory dump in snapshot. This option only works with crea -t, --testbed Control testbeds instead of VMs -n, --nsx Control NSX networks -v, --vxlanDetail Show vxlan parameters -r, --hoursToKeepVM=<i> Number of hours to keep the VM after test fails. (Default: 12) -w, --allowShorten Allow hoursToKeepVM is less than lease time Only kill auto-kept CAT testbed. -K, --autoKeptOnly --hoststats Dump physical host stats alongwith VM stats Start time of task or event: mm/dd/yyyy hh:mm:ss --startTime=<s> --endTime=<s> End time of task or event: mm/dd/yyyy hh:mm:ss Nested VM IP address. This option could be used to collect support bundle di --nestedVmIp=<s> --osFamily=<s> This option only works with --nestedVmIp.When a VM IP is specified, this opt Operations for 'console' command. Possible options: vnc_view, web_view, remo --console-option=<s> Specify results format for output. Supported Formats: text, json, yaml (defau -F, --outputFormat=<s> -N, --templateName=<s> Template name. It's same as VM name if not specified -P, --templatePath=<s> Folder Path to save the template (default: /templates) --newName=<s> New vm name -g, --add-tag=<s> Tag to be added to the VM --remove-tag=<s> Tag to be removed from the VM --tag=<s> Tag to filter VMs -k, --universalNetwork Control Cross-vCenter vxLAN. This option only works with --nsx. -R, --cpuReservation=<i> CPU reservation in MHz. This option only works with --set-reservation. -y, --memoryReservation=<i> Memory reservation in MB. This option only works with --set-reservation. Clear memory reservation. This option only works with --clear-reservation. -M, --clearMemReservation -C, --clearCpuReservation Clear CPU reservation. This option only works with --clear-reservation. -x, --vnicIndex=<i> The 1-based vnic index to operate on --vxlans=<s> Comma separated list of vxlan-backed networks -0, --trunk0p=<s> trunk operation -L, --nimbusLocation=<s> Run Nimbus on specified datacenter, available datacenters are ["sc", "wdc", --silentObjectNotFoundError No exception will be raised if no vm found, will only print a log --bootOrder=<s> Comma separated list of boot devices (e.g. 'hdd,eth') --disk=<i> Additional disk size in KB. Repeat this option for as many disks you want to -D, --pvscsiDisk=<i> Additional pvscsi disk size in KB. Repeat this option for as many disks you User to which VM should be transferred --user=<s> --help Show this message

1.7 nimbus-testbeddeploy CLI Online Help

-bash-4.1\$ /mts/git/bin/nimbus-testbeddeploy --help Allocate testbeds in the Nimbus cloud.

Usage:

nimbus-testbeddeploy [options]

Notes:

1) The whole options for the command are not listed here, as they are specific to underlying deploy commands,

2) It depends on a testbed spec that which options are required. For example, if a vcva is specified in a spe

Test Run Related Options:

--deployedDynamicWorkerName Name of the deployed dynamic worker
--psodurl Url to monitor psod status
--resultsDir Directory to put results into (default: random in /tmp)
--resultsurl Target url to update the running result
--test Specify which test to run by name
--testrunid Run id of the test
--updateurl Upstream site's url to update running status

 $Git Hub: \ https://github.com/dennyzhang/cheatsheet.dennyzhang.com/tree/master/cheatsheet-nimbus-A4-like formula for the following and the following formula for the following for the following formula for the following for the following formula for the following for the following formula for the follo$

Testbed Deployment Options:

--disableFirewall

```
Additional arguments
  --arg
  --customizeTestbed
                                 This option can be used to modify testbed spec in a very generic way. You ca
                                  '/esx cpuReservation=2048 memoryReservation=4096' will set reservation for
                                  Nodes can be selected multiple ways e.g. '/*' will select all nodes in test
  --customizeWorker
                                 This option can be used to customize dynamic worker in a generic way, e.g. '
                                 use this option as many times as you need
  --disableNatAfterPostboot
                                 Disable NAT on gateway VM. It only works with --isolated-testbed option.
  --enablePingVm
                                 Enable ping vms within the testbed
  --excludePlugin
                                 Specify a test framework plugin to not load. This provide a way to avoid loa
  --existingTestbed
                                 Existing testbed to use
  --failureTypeToKeepVMs
                                Type of test fails when VMs need to be kept. Valid types are FAIL, INVALID,
  --fake
                                Fake run, won't actually deploy vms
                                 If set, testbed will be destroyed. This option will override --keepVMsOnFail
  --forceCleanTestbed
                                 Specify public IP of gateway VM. This option only works with --vxlan option.
  --gateway
                                 VC or ESX code coverage flag. E,g. --gencov esx --gencov vc will do code cov
  --gencov
                                 Specify the VC/ESX code coverage config file. Currently only needed when do E
  --gencovConfigFile
                                 Number of hours to keep VMs after test fails. Maximum to keep VMs for 24 hou
  --hoursToKeepVMs
  --isolated-testbed
                                 Deploy the testbed in vxlan that is created on the fly.
  --keepVMsOnFailure
                                 If set, VMs will be kept if the test fails
  --list
                                List all testbeds
  --nimbusResourcePool
                                Use a specific resource pool
  --noPreparedTemplates
                                 Do not use prepared templates to speed up deployment
                                 Do not dump testbed stats no matter deployment success or fail
  --noStatsDump
                                 Specify a test framework plugin to load. This provide a way to avoid loading
  --plugin
                                 Specify a location where test framework plugin are located at. This way user
  --pluginsLocation
  --runName
                                 A prefix adding to the names of vms deployed. It is required unless --list of
  --testbedName
                                 Specify the name of the testbed to deploy
  --testbedParams
                                 Additional parameters accessible in testbed's postBoot block
  --testbedSpecJsonFile
                                 Specify a json testbed spec file
  --testbedSpecRubyFile
                                 Specify a ruby testbed spec file
                                 View testbed spec definition only. Do not really deploy a testbed
  --viewSpecOnly
  --vxlan
                                 Specify a vxlan to deploy the testbed on it. The vxlan will replace public n
                                 Distribute testbed to different pods
  --xvcTestbed
VM Deployment Options:
--affinitizeTestbed
                                 Affinitize all (expect VC) VMs of the testbed to locate on same host. Be car
                                 throughput among VMs are required.
                                 Specify annotation for the VMs
  --annotation
  --bootTimeout
                                 Boot time (in sec) after which to give up if the deployed VM didn't come up.
                                 The value should be either a CAT Machine (integer), the CAT Machine name or
  --catMachine
                                 {
                                   "id": "any id",
                                   "macaddrs":["e8:39:35:ae:6a:68", "e8:39:35:ae:6a:69"],
                                   "hostname": "hostname-allocated-by-techops"
                                   "childmodel": {
                                     "ilo_hostname":"10.20.96.109",
                                     "ilo_username":"vmware";
                                     "ilo_password": "vmware123",
                                     "suite_location": "PromC"
                                   }
                                 }
  --ciswinSettingsJsonFile
                                File path for ciswin settings
  --cleanPxeDir
                                 Clean image in pxe dir
  --context
                                 Nimbus pod context
```

Sends commands to disable the firewall in the VM

```
--disableTCPOffload
                               Sends commands to change the TCP Offload in the windows VM
                               A locator for the domain, in the format of domain://<User>:<Password>@<Domai
--domainLocator
--dynamicWorkerTemplate
                               Template of dynamic worker and worker-template by default
                               Sends commands to enable the firewall in the VM
--enableFirewall
--enableIPV6
                               Enable IPv6
                               Use The --force
--esx:force
--esx:hostprofilePath
                               Host profile path for stateless ESX
--esx:hostprofileVMLocation
                               Host profile VM location for stateless ESX
                               Startup scripts tgz file path for stateless ESX
--esx:scriptBundle
--esx:systemRescue
                               PXE Boot the host with Linux System Resuce CD. May be used in conjunction wi
                               /dbc/pa-dbc1106/mfurman/public_html/sysrescue
                               Wipes ALL partitions on ALL disks. Requires --force. USE WITH CAUTION
--esx:wipeAllDisks
                               Wipe the host before deploying. Parameter is the pxeDir that will be used f
--esx:wipeAndDeploy
--esx:wipeVsanDisks
                               Wipes VSAN disks. USE WITH CAUTION
--esxCount
                               Number of ESX
--existingIsolatedNetwork
                               Full path of an existing isolated network's JSON result file. This allows to
                               JSON file which has existing universal vxlan spec for deploying testbed
--existingUniversalNetwork
                               Force automatic determination of the VC product
--forceAutoVC
--hostdsim:noNfs
                               Do not deploy NFS VM for Host Simulator
--hwVer
                               Virtual hardware version, specified as an integer (e.g. 8). Value 0 implies
                               The value should be either a Hwim Machine ID/UUID (format: 8-4-4-12), the
--hwimMachine
                               {
                                 "id": "any id",
                                 "macaddrs":["e8:39:35:ae:6a:68", "e8:39:35:ae:6a:69"],
                                 "hostname": "hostname-allocated-by-techops"
                                 "childmodel": {
                                   "ilo_hostname":"10.20.96.109",
                                   "ilo_username":"vmware"
                                   "ilo_password":"vmware123",
                                   "suite_location": "PromC"
                                 }
                               }
                               Type of ipv6 address (static_no_dns, static_with_dns, slaac, link_local)
--ip6AddressType
                               Waiting time in minute to schedule this job.
--job-delay-mins
--job-schedule-at
                               When to schedule this job, like 2016-11-01 12:34
                               Lease in days
--lease
                               Destination Loginsight OVF url
--loginsight_ovfdesc
                               How long the user is willing to wait (in minutes) (default: 1.5h)
--maxRuntimeHint
--mergeLdu
                               Whether merging ldu
--network
                               Names of networks to use
                               Type of NIC (e1000, e1000e, vmxnet3)
--nicType
--nics
                               Number of NICs
                               Specify which Nimbus pod to use by name
--nimbus
--nimbusConfigFile
                               Specify the path of config file
                               Run Nimbus on specified datacenter, available datacenters are ["sc", "wdc",
--nimbusLocation
--noSchedulerNotification
                               Whether to send email after scheduler job finishes.
                               Deploy the testbed to OneCloud.
--oneCloud
--powershellVCInstall
                               Indicates that the powershell installer should be used
--product
                               Build product
--pxe-base-dir
                               Shared folder to save pxe image instead of user home dir
                               Schedule this job.
--queue
                               Scheduler job TTL (in hour). (default: 1.0)
--queue-ttl
                               Specify Nimbus root for remote execution (e.g. execution inside dynamic work
--remote-nimbus-root
--scheduler-job-id
                               Scheduler job ID.
                                Url for updating scheduler job 'launched' state.
--scheduler-job-launched-url
                               The reason for scheduling a job, such as final result(INVALID, TIMEOUT) or e
--scheduler-job-reason
                               Url for reporting scheduler job error.
--scheduler-job-result-url
--settingsJsonFile
                               Used to specify a json file for installation parameters
                               Indicates that the standalone installer should be used (default)
--standaloneVCInstall
```

--stress used to set the stress options for the ciswin firstboot

--stressMaxRange used to set the maximum delay range for the stress ciswin firstboot (seconds

Updated: February 1, 2020

--templateName Specify the VM template to use

--timeout Time (in seconds) after which to give up the deployment

--universalNetwork Deploy the testbed in Cross-vCenter vxlan. This option only works with --iso
--useWinVersion Specifies the base windows VM among win2008r2, win2012, win2012r2 t

--vcCount Number of VC

--vcvaSettingsJsonFile File path for vcva settings

--windowsDomainLocator A locator for the domain, in the format of domain://<User>:<Password>@<Domai

Build Options:

=========

--autodeployServerBuild Build number for autodeployServer

--build Build number
--cis_blddir Build dir for cis
--ciswinBuild Build number for ciswin
--ciswin_blddir Build dir for ciswin

--ciswindevngcBuild Build number for ciswindevngc
--cloudvmBuild Build number for cloudvm
--cloudvm_blddir Build dir for cloudvm

--cloudvmdevngcBuild Build number for cloudvmdevngc
--cloudvmngcBuild Build number for cloudvmngc
--cloudvmssoBuild Build number for cloudvmsso
--cloudvmvcopsBuild Build number for cloudvmvcops
--cloudvmvimBuild Build number for cloudvmvim

--esxBoraDir Bora dir of ESX
--esxBoraHost Bora Host for ESX
--esxBuild Build number for esx

--esxPxeDir Location of the dir for pxe config

--esx_vmtree vmtree for esx
--hbr_blddir Build dir for hbr
--hbrsrvBuild Build number for hbrsrv
--ic-clientBuild Build number for ic-client
--licensing_blddir Build dir for licensing
--logInsightBuild Build number for logInsight
--mobilityagentBuild Build number for mobilityagent

--ngc_blddir Build dir for ngc

--ngcinstallerBuild Build number for ngcinstaller
--nsx-transformersBuild Build number for nsx-transformers

--nsx_blddir Build dir for nsx

--phservices_blddir Build dir for phservices

--platform-services-controllerBuild Build number for platform-services-controller

--sampleBuild Build number for sample

--serverBuild Build number of server product

--sso_blddir Build dir for sso

--suite-uiBuild Build number for suite-ui
--testware_blddir Build dir for testware
--uiplatform_blddir Build dir for uiplatform
--vcBuild Build number for vc
--vcde_blddir Build dir for vcde

--vcenter-allBuild Build number for vcenter-all
--vcenter-asanBuild Build number for vcenter-asan
--vcenter-gcc6Build Build number for vcenter-gcc6
--vcenter-python3Build Build number for vcenter-python3

--vcenter-pythonsbulld
--vcenterBuild
Build number for vcenter
--vcenterphotonBuild
Build number for vcenterphoton
--vcentersles12Build
Build number for vcentersles12
--vcenterwindowsBuild
Build number for vcenterwindows
--vcenterwindows_blddir
Build dir for vcenterwindows

--vcenterwindowsdevngcBuild Build number for vcenterwindowsdevngc

--vcloudBuild Build number for vcloud
--vcloud_blddir Build dir for vcloud
--vcops_blddir Build dir for vcops
--vcqadistBuild Build of vcqadist

--vcqetestwarezipBuild Build number for vcqetestwarezip

--vcvaBuild Build number for vcva

--vcvaBuildDir Build tree to find cloudvm OVF. e.g. ~bora/build/. Must use with --vcvaBuild --vcvaBuildType Build type (obj/release/beta). Must use with --vcvaBuildDir

--vddkBuild Build number for vddk

--vimclients-h5clientBuild Build number for vimclients-h5client
--vimclients-platformBuild Build number for vimclients-platform
--vimclients-qaBuild Build number for vimclients-qa

--vm2c_blddir Build dir for vm2c

--vmc-gatewayBuild Build number for vmc-gateway
--vmc-gateway_blddir Build dir for vmc-gateway
--vpxBuild Build number for vpx
--vpx_blddir Build dir for vpx

--vpxd-comptests-covBuild Build number for vpxd-comptests-cov --vpxd-comptestsBuild Build number for vpxd-comptests

--vpxdBuild Build number for vpxd
--vpxd_blddir Build dir for vpxd
--vraCafeBuild Build number for vraCafe
--vraSsoBuild Build number for vraSso
--vropsBuild Build number for vrops
--vsmBuild Build number for vsm

--vui-componentsBuild Build number for vui-components

--wsBuild Build number for ws --ws_blddir Build dir for ws

Other Options:

--andyPrefix Andy's Prefix
--andyProducts Andy's Products
--featureStates Feature states
--logTriggerFile Log Trigger files

--logTriggersMode Possible values are 'off', 'always' or 'onerror' Enable a named breakpoint in the nimbus code.

--noDefaultLogTriggers No default Log Triggers

--noSupportBundles Do not collect support bundles

--pxeBootOption VMKernel boot option passed to nested ESXi

--umask Set the umask for having desired permissions on file

Deprecated Options:

--blddir Build dir of a product
--cis_vmtree vmtree for cis
--ciswin_vmtree vmtree for ciswin
--cloudvm_vmtree vmtree for cloudvm
--esx_blddir Build dir for esx

--esxallBuild Build number of esxall product

--hbr_vmtree vmtree for hbr
--licensing_vmtree vmtree for licensing
--location Build location
--macaddrs MAC addresses
--ngc_vmtree vmtree for ngc

--nsx_vmtree vmtree for nsx --phservices_vmtree vmtree for phservices

--sso_vmtree vmtree for sso

--testware_vmtree vmtree for testware --uiplatform_vmtree vmtree for uiplatform --vcenterwindows_vmtree vmtree for vcenterwindows --vcloud_vmtree vmtree for vcloud vmtree for vcops --vcops_vmtree vmtree for vm2c --vm2c_vmtree --vmc-gateway_vmtree vmtree for vmc-gateway --vpx_vmtree vmtree for vpx --vpxd_vmtree vmtree for vpxd --ws_vmtree vmtree for ws

1.8 nimbus CLI Online Help

```
-bash-4.1$ /mts/git/bin/nimbus --help
Nimbus root command
-a, --help-all Recursively get help for all commands
-h, --help Show this message
```

Available subcommands:

deploy: Deploy various vms

ctl : Nimbus-ctl commands to control vms

scheduler: nimbus-scheduler commands to control scheduler jobs

1.9 More Resources

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