1 CheatSheet: VMware Nimbus

VMWARE

Updated: April 9, 2019

- 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

File me Issues or star this repo.

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 Nimbus CLI

Name	Summary
List Testbed	/mts/git/bin/nimbus-ctltestbed list
Destroy a testbed/VM $$	/mts/git/bin/nimbus-ctltestbed kill \$testbed_name
Extend lease of a testbed	/mts/git/bin/nimbus-ctllease 5testbed extend-lease \$testbed_name
List ip of all VMs	/mts/git/bin/nimbus-ctl ip
Take VM snapshot	NIMBUS=sc-prd-vc012 /mts/git/bin/nimbus-ctloutputPath=\$HOME screenshot denny-snaps
Reference	CheatSheet: VMware Govmomi, CheatSheet: VMware Nimbus

1.3 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: 1 vcva, 2 ESX, 2 iscsi	Sample: testbed-iscsi.rb
Deploy Concourse	Sample: Deploy a Concourse Instance on Nimbus
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
Reference	Link: TestbedSpec, Demo: Deploy Your First Nimbus Testbed
Reference	Link: Logic of part of Nimbus-testbeddeploy code

1.4 nimbus tools

```
-bash-4.1$ ls -lt /mts/git/bin/nimbus*
-rwxr-xr-x 1 syncer mts
                            137 Dec 10 17:27 /mts/git/bin/nimbus-nsx-auto-edge-deploy
                            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
-rwxr-xr-x 1 syncer mts
                                        2018 /mts/git/bin/nimbus-racetrack
                            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
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            133 Jan 4
                                        2018 /mts/git/bin/nimbus-post-deployer-def
-rwxr-xr-x 1 syncer mts
                             128 Dec 20
                                        2017 /mts/git/bin/nimbus-ldap-dump-pg
```

```
-rwxr-xr-x 1 syncer mts
                             144 Nov 20
                                        2017 /mts/git/bin/nimbus-ucp-deploy
-rwxr-xr-x 1 syncer mts
                             609 Aug 20
                                        2017 /mts/git/bin/nimbusvc-base
-rwxr-xr-x 1 syncer mts
                             139 Aug 17
                                        2017 /mts/git/bin/nimbus-setup-master
                             192 Jul 3 2017 /mts/git/bin/nimbus-testbed-clone
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             141 Jul 3 2017 /mts/git/bin/nimbus-vca-wanopt-deploy
                             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
-rwxr-xr-x 1 syncer mts
                            3394 Dec 16
                                        2016 /mts/git/bin/nimbus-vropsloginsight-test-launcher
-rwxr-xr-x 1 syncer mts
                             205 Oct 31 2016 /mts/git/bin/nimbus
-rwxr-xr-x 1 syncer mts
                             185 Oct 31
                                        2016 /mts/git/bin/nimbus-testbeddeploy
                             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
-rwxr-xr-x 1 syncer mts
                             125 Oct 30
                                        2016 /mts/git/bin/nimbus-ldap-dump
-rwxr-xr-x 1 syncer mts
                             135 Sep 27
                                        2016 /mts/git/bin/nimbus-failure-investigate
                             145 Aug 31 2016 /mts/git/bin/nimbus-fiaasco-deploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             127 Jun 8
                                        2016 /mts/git/bin/nimbus-srm-install
-rwxr-xr-x 1 syncer mts
                             134 Jun 8
                                        2016 /mts/git/bin/nimbus-srmtestbed-deploy
-rwxr-xr-x 1 syncer mts
                             138 Jun 7
                                        2016 /mts/git/bin/nimbus-vca-cgw-deploy
                             134 May 13 2016 /mts/git/bin/nimbus-vcsa-inbox-upgrade
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             148 May 4 2016 /mts/git/bin/nimbus-one-cloud-esxdeploy
                                        2016 /mts/git/bin/nimbus-one-cloud-vcvadeploy
-rwxr-xr-x 1 syncer mts
                             148 May 4
-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
-rwxr-xr-x 1 syncer mts
                             131 Feb 2 2016 /mts/git/bin/nimbus-quick-pod-setup
-rwxr-xr-x 1 syncer mts
                             130 Jan 28 2016 /mts/git/bin/nimbus-upgrade-ciswin
-rwxr-xr-x 1 syncer mts
                             136 Jan 22 2016 /mts/git/bin/nimbus-vrdeploy
-rwxr-xr-x 1 syncer mts
                             142 Dec 23 2015 /mts/git/bin/nimbus-vcopsdeploy
                             138 Dec 23
                                        2015 /mts/git/bin/nimbus-vcg-deploy
-rwxr-xr-x 1 syncer mts
-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
-rwxr-xr-x 1 syncer mts
                             149 Nov 9 2015 /mts/git/bin/nimbus-vrops-deploy
                             145 Nov 3 2015 /mts/git/bin/nimbus-nsxcdeploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             142 Nov 3 2015 /mts/git/bin/nimbus-nsxmdeploy
                             146 Oct 26 2015 /mts/git/bin/nimbus-vnimbus-deploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             125 Sep 8 2015 /mts/git/bin/nimbus-debug-esx
                             144 Aug 2
                                        2015 /mts/git/bin/nimbus-sampledeploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             129 May 12
                                        2015 /mts/git/bin/nimbus-testesxdeploy
                                        2015 /mts/git/bin/nimbus-testesxdeploy-launcher
-rwxr-xr-x 1 syncer mts
                             138 May 12
-rwxr-xr-x 1 syncer mts
                             155 Apr 24
                                        2015 /mts/git/bin/nimbus-powercli-install
-rwxr-xr-x 1 syncer mts
                             146 Apr 23
                                        2015 /mts/git/bin/nimbus-network-deploy
                             142 Apr 8
                                        2015 /mts/git/bin/nimbus-uiplatform-vamiui-test-run
-rwxr-xr-x 1 syncer mts
-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
-rwxr-xr-x 1 syncer mts
                             142 Mar 16
                                        2015 /mts/git/bin/nimbus-fakepmdeploy
-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
                             138 Jan 28 2015 /mts/git/bin/nimbus-vsmdeploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             140 Jan 28 2015 /mts/git/bin/nimbus-vcdeploy-cat
                             138 Jan 28 2015 /mts/git/bin/nimbus-vcvadeploy
-rwxr-xr-x 1 syncer mts
-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
-rwxr-xr-x 1 syncer mts
                             138 Jan 28
                                        2015 /mts/git/bin/nimbus-pdp-deploy
                             147 Jan 28 2015 /mts/git/bin/nimbus-physical-esxdeploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             152 Jan 28
                                        2015 /mts/git/bin/nimbus-loginsightdeploy
                                        2015 /mts/git/bin/nimbus-fsdeploy
-rwxr-xr-x 1 syncer mts
                             136 Jan 28
-rwxr-xr-x 1 syncer mts
                             138 Jan 20
                                        2015 /mts/git/bin/nimbus-ovfdeploy
-rwxr-xr-x 1 syncer mts
                             142 Jan 20 2015 /mts/git/bin/nimbus-iscsideploy
                                         2015 /mts/git/bin/nimbus-esxdeploy-ob
-rwxr-xr-x 1 syncer mts
                             168 Jan 12
-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
-rwxr-xr-x 1 syncer mts
                            138 Dec 29 2014 /mts/git/bin/nimbus-nfsdeploy
-rwxr-xr-x 1 syncer mts
                            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
                            140 Jul 30 2014 /mts/git/bin/nimbus-uiplatform-icui-test-run
-rwxr-xr-x 1 syncer mts
                            139 Jul 30 2014 /mts/git/bin/nimbus-uiplatform-vui-test-run
-rwxr-xr-x 1 syncer mts
                            119 Jul 19 2014 /mts/git/bin/nimbus-ctl
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            129 Jul 19 2014 /mts/git/bin/nimbus-hostdsim-kill
                            127 Jul 19 2014 /mts/git/bin/nimbus-nimbussetup
-rwxr-xr-x 1 syncer mts
                            121 Jul 19 2014 /mts/git/bin/nimbus-touch
-rwxr-xr-x 1 syncer mts
                            132 Jul 18 2014 /mts/git/bin/nimbus-hostdsim-prepare
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            124 Jul 18 2014 /mts/git/bin/nimbus-test-esx
                            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
-rwxr-xr-x 1 syncer mts
                            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
                            133 May 29 2014 /mts/git/bin/nimbus-hostclient-deploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            130 May 29 2014 /mts/git/bin/nimbus-ngc-run-testng
                            137 May 29 2014 /mts/git/bin/nimbus-uiplatform-run-testng
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            133 May 29 2014 /mts/git/bin/nimbus-vcd-supportbundle
                            128 May 29 2014 /mts/git/bin/nimbus-vcva-upgrade
-rw-r--r-- 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            133 May 29 2014 /mts/git/bin/nimbus-vc-windows-deploy
-rwxr-xr-x 1 syncer mts
                            133 May 29 2014 /mts/git/bin/nimbus-vsm-supportbundle
-rwxr-xr-x 1 syncer mts
                            137 May 19 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
                            155 Apr 21 2011 /mts/git/bin/nimbus-vim-cat-launcher
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            130 Feb 18 2011 /mts/git/bin/nimbus-clui
                            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
-rwxr-xr-x 1 syncer mts
                            143 Feb 18 2011 /mts/git/bin/nimbus-vc
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                            130 Jan 11 2011 /mts/git/bin/nimbusvc-clui
                            127 Jan 11 2011 /mts/git/bin/nimbusvc-vcdeploy
-rwxr-xr-x 1 syncer mts
```

1.5 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 esx_supportbundle hostdsim_supportbundle genericvm_supportbundle genericvm_supportbundle workervm_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-snapsh get-extra-cfg set_ovf_params set-ovf-params shutdown rename vropsvm_supportbundle vropsvm-supportbundle tag s

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:
                               Log SOAP messages
-d, --debug
-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)
                               Name of the file generated without the extension (applicable to support bund
-i, --file-prefix=<s>
-1, --lease=<f>
                               Days to extend the lease by
-u, --username=<s>
                               Authentication info for VM operations
                               Authentication info for VM operations
-a, --password=<s>
--vimUsername=<s>
                               Since VC6.0, VIM uses different credantial from VM guest, this option is use
                               Since VC6.0, VIM uses different credantial from VM guest, this option is use
--vimPassword=<s>
-b, --bora=<s>
-T, --dbType=<s>
                               This option is used to specify the DB type for the commands vcdb-logbundle a
                               nimbus pod name
-m, --nimbus=<s>
                               exclusion pod for operation
-e, --excludedPod=<s>
-c, --context=<s>
                               nimbus pod context
-s, --nimbusConfigFile=<s>
                               nimbus pod config json file
-h, --snapshot=<s>
                               Name of snapshot
                               Whether to include memory dump in snapshot. This option only works with crea
-I, --snapshotIncludeMemory
-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
-K, --autoKeptOnly
                               Only kill auto-kept CAT testbed.
--hoststats
                               Dump physical host stats alongwith VM stats
--startTime=<s>
                               Start time of task or event: mm/dd/yyyy hh:mm:ss
                               End time of task or event: mm/dd/yyyy hh:mm:ss
--endTime=<s>
--nestedVmIp=<s>
                               Nested VM IP address. This option could be used to collect support bundle di
                               This option only works with --nestedVmIp.When a VM IP is specified, this opt
--osFamily=<s>
--console-option=<s>
                               Operations for 'console' command. Possible options: vnc_view, web_view, remo
-F, --outputFormat=<s>
                               Specify results format for output. Supported Formats: text, json, yaml (defau
-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.
                               CPU reservation in MHz. This option only works with --set-reservation.
-R, --cpuReservation=<i>
-y, --memoryReservation=<i>
                               Memory reservation in MB. This option only works with --set-reservation.
-M, --clearMemReservation
                               Clear memory reservation. This option only works with --clear-reservation.
```

Clear CPU reservation. This option only works with --clear-reservation. -C, --clearCpuReservation

-x, --vnicIndex=<i> The 1-based vnic index to operate on

--vxlans=<s> Comma separated list of vxlan-backed networks

trunk operation -0, --trunk0p=<s>

Run Nimbus on specified datacenter, available datacenters are ["sc", "wdc", -L, --nimbusLocation=<s>

--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

Show this message --help

nimbus-testbeddeploy CLI Online Help 1.6

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

Usage:

--user=<s>

nimbus-testbeddeploy [options]

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:

Name of the deployed dynamic worker --deployedDynamicWorkerName

--psodurl Url to monitor psod status

--resultsDir Directory to put results into (default: random in /tmp)

--resultsurl Target url to update the running result Specify which test to run by name --test

--testrunid Run id of the test

Upstream site's url to update running status --updateurl

Testbed Deployment Options:

--customizeWorker

arg	Additional arguments

This option can be used to modify testbed spec in a very generic way. You can --customizeTestbed '/esx cpuReservation=2048 memoryReservation=4096' will set reservation for

> Nodes can be selected multiple ways e.g. '/*' will select all nodes in test 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

Specify a test framework plugin to not load. This provide a way to avoid loa --excludePlugin

--existingTestbed Existing testbed to use

Type of test fails when VMs need to be kept. Valid types are FAIL, INVALID, --failureTypeToKeepVMs

--fake Fake run, won't actually deploy vms

--forceCleanTestbed If set, testbed will be destroyed. This option will override --keepVMsOnFail

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 --hoursToKeepVMs Number of hours to keep VMs after test fails. Maximum to keep VMs for 24 hou

Deploy the testbed in vxlan that is created on the fly. --isolated-testbed

If set, VMs will be kept if the test fails --keepVMsOnFailure

List all testbeds --list

--nimbusResourcePool Use a specific resource pool

--noPreparedTemplates Do not use prepared templates to speed up deployment

--noStatsDump Do not dump testbed stats no matter deployment success or fail

```
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
                                 Specify a json testbed spec file
  --testbedSpecJsonFile
  --testbedSpecRubyFile
                                 Specify a ruby testbed spec file
  --viewSpecOnly
                                 View testbed spec definition only. Do not really deploy a testbed
                                 Specify a vxlan to deploy the testbed on it. The vxlan will replace public n
  --vxlan
  --xvcTestbed
                                 Distribute testbed to different pods
VM Deployment Options:
_____
  --affinitizeTestbed
                                 Affinitize all (expect VC) VMs of the testbed to locate on same host. Be car
                                 throughput among VMs are required.
  --annotation
                                 Specify annotation for the VMs
                                 Boot time (in sec) after which to give up if the deployed VM didn't come up.
  --bootTimeout
                                 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
  --disableFirewall
                                 Sends commands to disable the firewall in the VM
  --disableTCPOffload
                                 Sends commands to change the TCP Offload in the windows VM
  --domainLocator
                                 A locator for the domain, in the format of domain://<User>:<Password>@<Domai
                                 Template of dynamic worker and worker-template by default
  --dynamicWorkerTemplate
  --enableFirewall
                                 Sends commands to enable the firewall in the VM
  --enableIPV6
                                 Enable IPv6
  --esx:force
                                 Use The --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
                                 PXE Boot the host with Linux System Resuce CD. May be used in conjunction wi
  --esx:systemRescue
                                 /dbc/pa-dbc1106/mfurman/public_html/sysrescue
                                 Wipes ALL partitions on ALL disks. Requires --force. USE WITH CAUTION
  --esx:wipeAllDisks
  --esx:wipeAndDeploy
                                 Wipe the host before deploying. Parameter is the pxeDir that will be used f
                                 Wipes VSAN disks. USE WITH CAUTION
  --esx:wipeVsanDisks
  --esxCount
                                 Number of ESX
                                 Full path of an existing isolated network's JSON result file. This allows to
  --existingIsolatedNetwork
  --existingUniversalNetwork
                                 JSON file which has existing universal vxlan spec for deploying testbed
  --forceAutoVC
                                 Force automatic determination of the VC product
  --hostdsim:noNfs
                                 Do not deploy NFS VM for Host Simulator
  --hwVer
                                 Virtual hardware version, specified as an integer (e.g. 8). Value 0 implies
  --hwimMachine
                                 The value should be either a Hwim Machine ID/UUID (format: 8-4-4-12), the
                                 {
                                   "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"
                                 }
  --ip6AddressType
                                 Type of ipv6 address (static_no_dns, static_with_dns, slaac, link_local)
  --job-delay-mins
                                 Waiting time in minute to schedule this job.
  --job-schedule-at
                                 When to schedule this job, like 2016-11-01 12:34
  --lease
                                 Lease in days
  --loginsight_ovfdesc
                                 Destination Loginsight OVF url
  --maxRuntimeHint
                                 How long the user is willing to wait (in minutes) (default: 1.5h)
  --mergeLdu
                                 Whether merging ldu
                                 Names of networks to use
  --network
                                 Type of NIC (e1000, e1000e, vmxnet3)
  --nicType
                                 Number of NICs
  --nics
                                 Specify which Nimbus pod to use by name
  --nimbus
  --nimbusConfigFile
                                 Specify the path of config file
  --nimbusLocation
                                 Run Nimbus on specified datacenter, available datacenters are ["sc", "wdc",
  --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
  --queue
                                 Schedule this job.
                                 Scheduler job TTL (in hour). (default: 1.0)
  --queue-ttl
  --remote-nimbus-root
                                 Specify Nimbus root for remote execution (e.g. execution inside dynamic work
                                 Scheduler job ID.
  --scheduler-job-id
  --scheduler-job-launched-url
                                  Url for updating scheduler job 'launched' state.
  --scheduler-job-reason
                                 The reason for scheduling a job, such as final result(INVALID, TIMEOUT) or e
  --scheduler-job-result-url
                                 Url for reporting scheduler job error.
                                 Used to specify a json file for installation parameters
  --settingsJsonFile
  --standaloneVCInstall
                                 Indicates that the standalone installer should be used (default)
                                 used to set the stress options for the ciswin firstboot
  --stress
  --stressMaxRange
                                 used to set the maximum delay range for the stress ciswin firstboot (seconds
                                 Specify the VM template to use
  --templateName
                                 Time (in seconds) after which to give up the deployment
  --timeout
                                 Deploy the testbed in Cross-vCenter vxlan. This option only works with --iso
  --universalNetwork
  --useWinVersion
                                 Specifies the base windows VM among win2008r2, win2008, win2012, win2012r2 t
  --vcCount
                                 Number of VC
  --vcvaSettingsJsonFile
                                 File path for vcva settings
                                 A locator for the domain, in the format of domain://<User>:<Password>@<Domai
  --windowsDomainLocator
Build Options:
```

--esxBoraDir

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

Bora dir of ESX

```
Bora Host for ESX
--esxBoraHost
--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
                               Build number for logInsight
--logInsightBuild
--mobilityagentBuild
                               Build number for mobilityagent
                               Build dir for ngc
--ngc_blddir
--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
                               Build number for sample
--sampleBuild
                               Build number of server product
--serverBuild
--sso_blddir
                               Build dir for sso
                               Build number for suite-ui
--suite-uiBuild
                               Build dir for testware
--testware_blddir
--uiplatform_blddir
                               Build dir for uiplatform
--vcBuild
                               Build number for vc
--vcde_blddir
                               Build dir for vcde
                               Build number for vcenter-all
--vcenter-allBuild
                               Build number for vcenter-asan
--vcenter-asanBuild
--vcenter-gcc6Build
                               Build number for vcenter-gcc6
                               Build number for vcenter-python3
--vcenter-python3Build
--vcenterBuild
                               Build number for vcenter
--vcenterphotonBuild
                               Build number for vcenterphoton
--vcentersles12Build
                               Build number for vcentersles12
                               Build number for vcenterwindows
--vcenterwindowsBuild
--vcenterwindows_blddir
                               Build dir for vcenterwindows
--vcenterwindowsdevngcBuild
                               Build number for vcenterwindowsdevngc
--vcloudBuild
                               Build number for vcloud
                               Build dir for vcloud
--vcloud_blddir
                               Build dir for vcops
--vcops_blddir
--vcqadistBuild
                               Build of vcqadist
--vcqetestwarezipBuild
                               Build number for vcqetestwarezip
--vcvaBuild
                               Build number for vcva
--vcvaBuildDir
                               Build tree to find cloudym OVF. e.g. ~bora/build/. Must use with --vcvaBuild
                               Build type (obj/release/beta). Must use with --vcvaBuildDir
--vcvaBuildType
--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
                               Build number for vpxd-comptests
--vpxd-comptestsBuild
--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' --nimbusBreakpoint 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 --vcops_vmtree vmtree for vcops --vm2c_vmtree vmtree for vm2c

--vmc-gateway_vmtree vmtree for vmc-gateway

--vpx_vmtree vmtree for vpx --vpxd_vmtree vmtree for vpxd --ws_vmtree vmtree for ws

1.7 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

 $\ensuremath{\mathsf{ctl}}$: Nimbus-ctl commands to control $\ensuremath{\mathsf{vms}}$

scheduler: nimbus-scheduler commands to control scheduler jobs

1.8 More Resources

License: Code is licensed under MIT License.