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
- 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 |
| $Destroy\ a\ testbed/VM$ | /mts/git/bin/nimbus-ctltestbed kill \$testbed_name |
| 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 | $NIMBUS = \$\{POD\} / mts/git/bin/nimbus-ctl - snapshotIncludeMemory - snapshot \$snapshotname - snapshot \$snapshotname - snapshotNemory - snapshot - snapshotNemory - sna$ |
| 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
                            138 Jun 7
                                        2016 /mts/git/bin/nimbus-vca-cgw-deploy
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             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
-rwxr-xr-x 1 syncer mts
                            138 Dec 23
                                        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
-rwxr-xr-x 1 syncer mts
                             145 Nov
                                     3
                                        2015 /mts/git/bin/nimbus-nsxcdeploy
                             142 Nov 3 2015 /mts/git/bin/nimbus-nsxmdeploy
-rwxr-xr-x 1 syncer mts
```

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-rwxr-xr-x 1 syncer mts
                             146 Oct 26
                                        2015 /mts/git/bin/nimbus-vnimbus-deploy
-rwxr-xr-x 1 syncer mts
                             125 Sep 8
                                        2015 /mts/git/bin/nimbus-debug-esx
-rwxr-xr-x 1 syncer mts
                             144 Aug 2 2015 /mts/git/bin/nimbus-sampledeploy
                             129 May 12 2015 /mts/git/bin/nimbus-testesxdeploy
-rwxr-xr-x 1 syncer mts
-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
                                         2015 /mts/git/bin/nimbus-vcvadeploy
-rwxr-xr-x 1 syncer mts
                             138 Jan 28
-rwxr-xr-x 1 syncer mts
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                                        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
-rwxr-xr-x 1 syncer mts
                             136 Jan 28
                                         2015 /mts/git/bin/nimbus-fsdeploy
-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
-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
                                         2014 /mts/git/bin/nimbus-nfsdeploy
-rwxr-xr-x 1 syncer mts
-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
-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
-rwxr-xr-x 1 syncer mts
-rwxr-xr-x 1 syncer mts
                             119 Jul 19 2014 /mts/git/bin/nimbus-ctl
-rwxr-xr-x 1 syncer mts
                             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
-rwxr-xr-x 1 syncer mts
                             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
-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
-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 esx_supportbundle hostdsim_supportbundle genericvm_supportbundle workervm_supportbundle workervm_supportbundle workervm_supportbundle samplevp_support 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 vropsvm

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
                               Days to extend the lease by
-1, --lease=<f>
                               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. -M, --clearMemReservation Clear memory reservation. This option only works with --clear-reservation. -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

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

Testbed Deployment Options:

--context

--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
```

Sends commands to disable the firewall in the VM

Nimbus pod context

```
--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"
                                 }
                               }
--ip6AddressType
                               Type of ipv6 address (static_no_dns, static_with_dns, slaac, link_local)
                               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

--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

--vcenterBuild Build number for vcenter python
--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' --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 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

License: Code is licensed under MIT License.