

## 2.1.0 (build 281)

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### Special Notes

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- This is 2.1 alpha 1 release, only very limited tests on it.
- Some spotlights:
  - Manage existing cluster through "Cluster Management\Import Cluster"
- 16 new features are added, and 39 bugs are fixed till this release.

### New Features

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- [VSM-355](#) there are some used disk paths list in the data path field and journal dik path field on page 'add new osd'
- [VSM-90](#) Monitor Status page improvements.
- [VSM-96](#) UI responsiveness
- [VSM-98](#) Server Configuration Change.
- [VSM-352](#) servermgmt page autorefrush too frequent
- [VSM-372](#) narrow the attack surface from VSM to Openstack cluster
- [VSM-373](#) at adding new OSD page, expect to list device name like /dev/sdd1 instead of pci bus address.
- [VSM-140](#) Ceph Development (Epic 6): Prototype Calamari/VSM dashboard implementation
- [VSM-88](#) On monitor status page, report what server each monitor is running on.
- [VSM-15](#) VSM-backup prompt info not correct
- [VSM-242](#) Allow user to modify ceph.conf outside VSM
- [VSM-124](#) [CDEK-1852] VSM | adding possibility to manipulate ceph values in cluster.manifest file
- [VSM-4](#) Average Response Time" missing in dashboard Overview panel "VSM Status" section.
- [VSM-159](#) add issue reporting tool
- [VSM-184](#) add automated script to help deploy VSM on multiple nodes
- [VSM-156](#) add sanity check tool to help identify potential issues before or after deployment

### Resolved bugs

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- [Key Summary](#)
- [VSM-321](#) no upstart mechanism used for ubuntu when controlling ceph service
- [VSM-336](#) On Dashboard, even no cluster is created, the VSM version and uptime should be displayed
- [VSM-24](#) [CDEK-1661] VSM Dashboard | Manage Servers | Reset server status - works not correctly.
- [VSM-365](#) Creating Cluster stucks at ceph.conf creation when running VSM on CentOS 7.1
- [VSM-19](#) CDEK-1613] VSM | Reset Server Status button - return Error:Network error
- [VSM-379](#) Trace back in browser when using reset server status action buttons
- [VSM-381](#) run diamond through service instead of current process launching
- [VSM-378](#) Performance data is retrieved from outside nodes
- [VSM-374](#) the down server is not reflected in VSM
- [VSM-375](#) Malformed JSON in 'Integrate Cluster' function
- [VSM-366](#) the password for openstack access is shown as plain text
- [VSM-312](#) vsm-node sets node status="Need more IP" if a Monitor only node does not have a cluster IP address..
- [VSM-367](#) can't create cluster at public cloud environment
- [VSM-368](#) The default password is not following the same password policy to include uppercase and digitals.
- [VSM-369](#) Change password: "!" doesn't support in password even prompt message says OK
- [VSM-224](#) Controller node error in /var/log/httpd/error\_log - constantly ongoing messages [error] <Response [200]>
- [VSM-244](#) Internal server error when installing v1.1
- [VSM-179](#) keep ceph.conf up to date when executing "remove server" operations.
- [VSM-176](#) SSL certificate password is stored in a plain text file
- [VSM-193](#) hard-coded cluster id
- [VSM-177](#) wrong /etc/fstab entry for osd device mount point
- [VSM-239](#) with automatic deployment, the execution is blocked at asking if start mysql service
- [VSM-166](#) clustermanifest sanity check program gives incorrect advice for authkeys
- [VSM-121](#) Storage node unable to connect to controller although network is OK and all setting correct

- [VSM-123](#) Storage node will not be able to contact controller node to install if http proxy set
- [VSM-171](#) [CDEK1672] VSM\_CLI | list shows Admin network in Public IP section
- [VSM-168](#) [CDEK1800] VSM\_CLI | remove mds - doesn't update vsm database
- [VSM-236](#) no way to check manifest correctness after editing them
- [VSM-233](#) console blocks when running automatic installation procedure
- [VSM-260](#) the `checknetwork in servermanifest` will be wrong when it has a single network card
- [VSM-33](#) negative update time in RBD list
- [VSM-51](#) Install Fails for VSM 0.8.0 Engineering Build Release
- [VSM-113](#) [CDEK-1835] VSM | `/var/log/httpd/error_log` - constantly ongoing messages [error] <Response [200]>
- [VSM-29](#) vsm-agent process causes high i/o on os disk
- [VSM-216](#) Add storage group requires at least 3 nodes
- [VSM-26](#) [CDEK-1664] VSM | Not possible to replace node if ceph contain only 3 nodes.
- [VSM-207](#) can't assume eth0 device name
- [VSM-230](#) when presenting pool to openstack, cache tiering pools should be listed.

## Known issues

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- [VSM-393](#) When importing cluster, if there is no OSD and MON sections, the import will fail

## 2.0.0 (build 216)

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## Special Notes

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- This is the 2.0 final release, which includes both Ubuntu 14 and CentOS 7 packages.
- 16 new features are added, and 33 bugs are fixed till this release.

## New Features

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- [VSM-342](#) support ceph upgrade on centos 7
- [VSM-88](#) On monitor status page, report what server each monitor is running on.
- [VSM-162](#) need to support typical openstack deployment with multiple cinder/nova/glance instances beside current all-in-one mode
- [VSM-246](#) a separate tool to help make a node ready for addition into cluster
- [VSM-307](#) the operator expects to upgrade ceph cluster
- [VSM-309](#) Disk identification: the operator expects to identify physical location of failed disks for replacement
- [VSM-327](#) Dashboard: it's required to have summary for device capacity status to show if full
- [VSM-358](#) Support normal user instead of root to install vsm
- [VSM-355](#) there are some used disk paths list in the data path field and journal dik path field on page 'add new osd'
- [VSM-352](#) servermgmt page autorefrush too frequent
- [VSM-346](#) Add complete set of Juno features in Horizon; pluggable settings, etc.
- [VSM-341](#) expect to have some utilities to help make automation tests.
- [VSM-291](#) The operator expects to present pools to multiple openstack clusters or regions
- [VSM-331](#) it's necessary to monitor device utilization from dashboard
- [VSM-339](#) Configuration Management: as more and more features are added, and different scenarios require different settings, configuration is required.
- [VSM-337](#) Upgrade: expect to upgrade from 1.0 to 2.0

## Resolved bugs

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- [VSM-312](#) vsm-node sets node status="Need more IP" if a Monitor only node does not have a cluster IP address..
- [VSM-17](#) [CDEK-1608] User can remove himself, but after command execution he is not automatically log out
- [VSM-329](#) Remove Monitors button in Manage Servers hangs when Monitor node also has MDS daemon
- [VSM-274](#) a new user logged in vsm and can delete himself
- [VSM-362](#) there are a lot of "in-Up" log in apache error log
- [VSM-364](#) when remove one monitor without MDS co-located, the operation keeps running and no end.
- [VSM-359](#) get smart info inaccurate
- [VSM-363](#) if removing a monitor where the MDS is co-located, after finished, the status has changed to "available" instead of "active".

- [VSM-319](#) performance monitor error when restart vsm processes on controller
- [VSM-322](#) there are exceptions when request vsm dashboard
- [VSM-330](#) When upgrading from Firefly to Giant, the upgrade complains missing python-rados package
- [VSM-360](#) No servers list after newly installed with errors " Permission denied: '/tmp/crushmap'"
- [VSM-332](#) sometimes diamond service start failed
- [VSM-333](#) Error: "Activation of org.freedesktop.secrets timed out", when installing with 2.0 beta 1
- [VSM-345](#) remove server error: no pemssion to stop osd service
- [VSM-348](#) deploy agent node after vsm cluster has been created, the token in .token file is invalid
- [VSM-361](#) when one osd is full, the dashboard doesn't mark one osd is full
- [VSM-347](#) When clicking on "add new osd" at device management, a server error page pops up
- [VSM-353](#) changed the password of current user,an error page pops up
- [VSM-336](#) On Dashboard, even no cluster is created, the VSM version and uptime should be displayed
- [VSM-343](#) can't create cache tier with latest code
- [VSM-344](#) after a few times install, clean-up, reinstall, we have seem some "eaddrinuse" errors on starting rabbitmq
- [VSM-357](#) 'add new disk':if data disk and journal disk is in the different partitions of the same disk, the opearation will be unsuccessful
- [VSM-350](#) no response when get latency performance on dashboard
- [VSM-351](#) ceph upgrade on ubuntu unsuccess
- [VSM-356](#) I got warning info means that the number of pg in each osd is too large after upgrade ceph from a lower version to hammar
- [VSM-354](#) when 'create cluster' page opened,other pages still can be opened
- [VSM-349](#) click 'create cluster',I got the tip:there are some zones no monitor created
- [VSM-340](#) Manifest: even using the same token generated from agent-token, server\_manifest still complains connection error
- [VSM-328](#) Dashboard: when one disk is full, the warning message is not showing correctly
- [VSM-338](#) Upgrade: current ceph upgrade requires all agent nodes have internet connections, which normally is not true.
- [VSM-334](#) upgrade: when set hammer url, then click "submit", the final ceph version is still firefly.
- [VSM-335](#) The version on UI only shows 2.0.0, but no build number

## Known issues

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## 2.0.0 (build 163)

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## Special Notes

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- this is a 2.0 beta 1 release, still plenty of changes in this release, and we did some initial tests on it.
- 15 new features are added, and 41 bugs are fixed till this release.

## New Features

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- [VSM-135](#) CentOS 6.5 and 7.0 Support
- [VSM-296](#) Show performance on the dashboard
- [VSM-4](#) Average Response Time" missing in dashboard Overview panel "VSM Status" section.
- [VSM-159](#) add issue reporting tool
- [VSM-156](#) add sanity check tool to help identify potential issues before or after deployment
- [VSM-15](#) VSM-backup prompt info not correct
- [VSM-124](#) [CDEK-1852] VSM | adding possibility to manipulate ceph values in cluster.manifest file
- [VSM-242](#) Allow user to modify ceph.conf outside VSM
- [VSM-184](#) add automated script to help deploy VSM on multiple nodes
- [VSM-103](#) Support a Single Keystone Instance in OpenStack Environments
- [VSM-303](#) Adjust the UI like openstack dashboard
- [VSM-54](#) On OSD Status page: Provide filter option to only display OSDs that are not up and in
- [VSM-190](#) Add disks to cluster
- [VSM-220](#) Operator expects to know what's happending inside ceph cluster through performance counters
- [VSM-134](#) Ubuntu 14.X Support

## Resolved bugs

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- [VSM-318](#) "remove osd" doesn't work
- [VSM-325](#) Monitor: negative update time shown on monitor status when removing an monitor.
- [VSM-269](#) Smart info doesn't work in Device mgmt.
- [VSM-324](#) Monitor: inconsistent monitor number on Monitor status page when removing one monitor
- [VSM-326](#) UI: the progress indicator is not showing at the center of screen but the top-left
- [VSM-323](#) Installer: when installing diamond on each agents, there are a lot of File or Folder not found issues
- [VSM-306](#) when executing buildvsm on ubuntu, the script complains no vsm user created
- [VSM-263](#) The pie chart in "Storage Group Status" page is disappeared.
- [VSM-320](#) if installing from a node instead of the controller, the installation will be stopped at missing deployrc
- [VSM-176](#) SSL certificate password is stored in a plain text file
- [VSM-230](#) when presenting pool to openstack, cache tiering pools should be listed.
- [VSM-26](#) [CDEK-1664] VSM | Not possible to replace node if ceph contain only 3 nodes.
- [VSM-51](#) Install Fails for VSM 0.8.0 Engineering Build Release
- [VSM-236](#) no way to check manifest correctness after editing them
- [VSM-29](#) VSM-agent process causes high i/o on os disk
- [VSM-216](#) Add storage group requires at least 3 nodes
- [VSM-33](#) negative update time in RBD list
- [VSM-113](#) [CDEK-1835] VSM | /var/log/httpd/error\_log - constantly ongoing messages [error] <Response [200]>
- [VSM-179](#) keep ceph.conf up to date when executing "remove server" operations.
- [VSM-177](#) wrong /etc/fstab entry for osd device mount point
- [VSM-233](#) console blocks when running automatic installation procedure
- [VSM-239](#) with automatic deployment, the execution is blocked at asking if start mysql service
- [VSM-166](#) *clustermanifest sanity check program gives incorrect advice for authkeys*
- [VSM-207](#) can't assume eth0 device name
- [VSM-224](#) Controller node error in /var/log/httpd/error\_log - constantly ongoing messages [error] <Response [200]>
- [VSM-121](#) Storage node unable to connect to controller although network is OK and all setting correct
- [VSM-244](#) Internal server error when installing v1.1
- [VSM-123](#) Storage node will not be able to contact controller node to install if http proxy set
- [VSM-171](#) [CDEK1672] VSM\_CLI | list shows Admin network in Public IP section
- [VSM-168](#) [CDEK1800] VSM\_CLI | remove mds - doesn't update vsm database
- [VSM-193](#) hard-coded cluster id
- [VSM-260](#) the *checknetwork in servermanifest* will be wrong when it has a single network card
- [VSM-317](#) the update time in MDS block is empty
- [VSM-249](#) can not open dashboard and get the debug information "Invalid block tag: 'horizon\_nav'"
- [VSM-299](#) when after installed vsm, but no ceph cluster deployed, there is still show 3 storage groups
- [VSM-310](#) with Firefox, for all tables, the vertical separator between the first and second column gets disappeared
- [VSM-313](#) the logo is disappeared when running on IE 11
- [VSM-314](#) there is no progress indicator when an operation is not returned.
- [VSM-316](#) the button style in "device management" page is different from others.
- [VSM-311](#) The blocks in dashboard are exceed out of the width of heading
- [VSM-315](#) "add server" doesn't work in alpha 2

## Known issues

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- [VSM-332](#) sometimes diamond service start failed
- [VSM-330](#) When upgrading from Firefly to Giant, the upgrade complains missing python-rados package

## 2.0.0 (build 149)

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## Special Notes

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- this is a 2.0 alpha 2 release, we did some initial tests on it.
- 29 new features are added, and 47 bugs are fixed till this release.

## New Features

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- [VSM-63](#) Filter/Identify OSDs that are not up and in
- [VSM-61](#) Openstack Prod release alignment with VSM
- [VSM-55](#) Paginate OSD pages
- [VSM-10](#) VSM1.0 -[CDEK-1190] VSM "Create cluster" cannot select storage nodes or monitor
- [VSM-304](#) Support to present pool to Openstack Juno All in one
- [VSM-282](#) current installer scripts only support ip address based, it's also required to support host name based
- [VSM-256](#) current logic enforces 3 replicas, something's user may require to loose or tighten the enforcement.
- [VSM-257](#) reorganize functions inside installer to make it's possible to install controller or agent separately
- [VSM-243](#) the "create cluster" button doesn't take in effect after click on ubuntu 14
- [VSM-235](#) make scripts can support both rpm and deb packages
- [VSM-222](#) It's necessary to import a VSM created cluster by VSM itself.
- [VSM-221](#) upgrade vsm dependent openstack packages to junio
- [VSM-212](#) request to support ceph hammer release
- [VSM-209](#) support multiple subnets
- [VSM-189](#) "Add Server" progress
- [VSM-163](#) server\_manifest does not check for local host in /etc/hosts
- [VSM-154](#) Request to have a new column on storage-group-status page to have number of OSD's in each storage group.
- [VSM-143](#) On OSD Status page, limit to 100 OSDs per page
- [VSM-144](#) On OSD Status page, sort OSDs by status, server, % capacity used
- [VSM-130](#) OpenStack Juno Support
- [VSM-94](#) Implement Pass-through Parameters
- [VSM-85](#) Storage Group Status improvements
- [VSM-89](#) Full OS disk indication
- [VSM-84](#) Improved server status reporting
- [VSM-83](#) Restart stopped monitor
- [VSM-69](#) Override default PG per OSD value
- [VSM-73](#) Zone monitor warning
- [VSM-46](#) overlay vsm with existing ceph cluster
- [VSM-23](#) Create User UI should prompt more information

## Resolved bugs

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- [VSM-305](#) presenting pool should keep backward compatibility, say working with junio, icehouse, havana
- [VSM-300](#) if no cluster is created, when open "server management"/"manage servers", the UI becomes messy
- [VSM-298](#) on dashboard, when adding new monitors, the monitor block doesn't update accordingly
- [VSM-297](#) on dashboard, the storage group balls have no data
- [VSM-293](#) wrong version of vsm displayed in the dashboard
- [VSM-295](#) the installation fails at downloading dependent packages if http proxy is required
- [VSM-292](#) the background of tool tip is not clear to view
- [VSM-286](#) present pools to openstack again after you have presented pools, the attach status is always starting
- [VSM-285](#) present multi pools to openstack cinder, the cinder.conf is not complete
- [VSM-287](#) messy login window if accessing https:///dashboard
- [VSM-284](#) at cluster status monitor, it's expected to provide complete summary instead the partial information from dashboard
- [VSM-283](#) after restart ceph cluster, the osd tree becomes messy
- [VSM-280](#) "Internal Server Error" when click on "Data Device Status"
- [VSM-278](#) after I add a server by clicking 'add server', the osd tree become messy
- [VSM-279](#) click 'restart osd' or 'restore osd', the osd tree will become messy
- [VSM-281](#) on dashboard, the cluster status like "warning" shouldn't be clickable
- [VSM-276](#) Allow agent to be deployed on nodes where no ceph role assigned
- [VSM-277](#) click on "add storage group" will trigger "something went wrong" error on UI
- [VSM-272](#) on OS with newer rabbitmq version like 3.4, message queue can't be accessed
- [VSM-273](#) "Import Error name Login" received when try to login to web console
- [VSM-275](#) the overview page is messy with Firefox
- [VSM-270](#) reinstall the keystone when deploy the vsm
- [VSM-266](#) Dashboard UI correction
- [VSM-265](#) Click Manage VSM/"Add/Remove User"/"Change Password", no page shows up
- [VSM-264](#) on "PG Status" page, the text layout is messy.

- [VSM-267](#) The logo is not fully shown.
- [VSM-268](#) Can't create EC pool
- [VSM-262](#) when clicking on "device management", the page shows "something went wrong"
- [VSM-258](#) wrong dependencies url
- [VSM-259](#) script 'vsm-agent' missing LSB tags and overrides
- [VSM-253](#) A lot of buttons is invalid such as "addmonitor", "removemonitor", "addserver", "removeserver", "restore osd", "remove osd" and so on
- [VSM-254](#) the successful tip boxes can't shut down such as "Success: Successfully created storage pool: "
- [VSM-255](#) when creating ceph cluster with one zone defined, the ceph cluster keeps in health\_warn status
- [VSM-252](#) Most of the interface's auto refresh function is invalid
- [VSM-251](#) after clicked clusterManagement->create cluster->create cluster, there is not mds created.
- [VSM-250](#) Error when packing
- [VSM-245](#) error creating cluster
- [VSM-231](#) VSM | Not possible to choose the machines during cluster creation
- [VSM-229](#) Error state displayed on green color
- [VSM-225](#) VSM Creates Very Small pgnum and pg.num Size for EC Pool
- [VSM-218](#) on centos 7, the web layout is messy
- [VSM-195](#) if no cluster initialized, the UI shouldn't knock at 'manage servers'.
- [VSM-194](#) User experience: OSD Status and Manage Devices.
- [VSM-180](#) When a cluster is destroyed and recreated, VSM controller increments the cluster id (aka database rowid)
- [VSM-153](#) after clicked vsm->settings->update, there is no successful tip
- [VSM-68](#) Verify there are enough discrete servers and/or zones to support a VSM requested replication level
- [VSM-5](#) KB used in "Pool status" panel not consistent with "ceph df" in backend

## Known issues

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- [VSM-313](#) the logo is disappeared when running on IE 11

## 2.0.0 (build 123)

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## Special Notes

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- this is alpha 1 release for 2.0, which is not well verified yet, just for early preview.

## 1.1\_1

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## Special Notes

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- this is a bugfix release for 1.1, which fixed the issues found in [VSM-242](#) ("Allow user to modify ceph.conf outside VSM"). Also adding a new script `uninstall.sh` to help uninstall VSM in the case user expects to restart installation again.

## New Features

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- [VSM-209](#) support multiple subnets

## Resolved bugs

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- [VSM-260](#) the `checknetwork in servermanifest` will be wrong when it has a single network card

## Known issues

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## 1.1

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## Special Notes

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- starting from v1.1, the vsm dependencies are maintained on [vsm-dependencies repository](#) for tracking and trouble shooting.
- starting from v1.1, an automatic deployment tool is provided to deploy whole vsm controller and agents from one placement.

## New Features

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- [VSM-156](#) add sanity check tool to help identify potential issues before or after deployment
- [VSM-159](#) add issue reporting tool
- [VSM-184](#) add automated script to help deploy VSM on multiple nodes
- [VSM-242](#) Allow user to modify ceph.conf outside VSM

## Resolved bugs

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- [VSM-4](#) Average Response Time" missing in dashboard Overview panel "VSM Status" section.
- [VSM-15](#) VSM-backup prompt info not correct
- [VSM-25](#) VSM Dashboard | Capacity of hard drives is wrong and percentage used capacity is not correct.
- [VSM-26](#) [CDEK-1664] VSM | Not possible to replace node if ceph contain only 3 nodes.
- [VSM-29](#) vsm-agent process causes high i/o on os disk
- [VSM-33](#) negative update time in RBD list
- [VSM-51](#) Install Fails for VSM 0.8.0 Engineering Build Release
- [VSM-113](#) [CDEK-1835] VSM | /var/log/httpd/error\_log - constantly ongoing messages [error] <Response [200]>
- [VSM-121](#) Storage node unable to connect to controller although network is OK and all setting correct
- [VSM-123](#) Storage node will not be able to contact controller node to install if http proxy set
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- [VSM-171](#) [CDEK1672] VSM\_CLI | list shows Admin network in Public IP section
- [VSM-176](#) SSL certificate password is stored in a plain text file
- [VSM-177](#) wrong /etc/fstab entry for osd device mount point
- [VSM-179](#) keep ceph.conf up to date when executing "remove server" operations.
- [VSM-193](#) hard-coded cluster id
- [VSM-207](#) can't assume eth0 device name
- [VSM-216](#) Add storage group requires at least 3 nodes
- [VSM-217](#) Problem with replication size on "pool" created on newly added storage group.
- [VSM-224](#) Controller node error in /var/log/httpd/error\_log - constantly ongoing messages [error] <Response [200]>
- [VSM-230](#) when presenting pool to openstack, cache tiering pools should be listed.
- [VSM-233](#) console blocks when running automatic installation procedure
- [VSM-236](#) no way to check manifest correctness after editing them
- [VSM-239](#) with automatic deployment, the execution is blocked at asking if start mysql service
- [VSM-244](#) Internal server error when installing v1.1

## Known issues

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## 1.0

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### Special Notes

For installation, please check the `INSTALL.md` on current release branch instead of the one on master branch.

### New Features

Openstack Icehouse support

### Fixed bugs

VSM-187 GUI shows always replication 3 when replicated pool is other than "Same as Primary"  
VSM-183 ct\_target\_max\_mem\_mb and ct\_target\_max\_capacity\_gb sets the same value in create cache tier  
VSM-182 add osd\_heartbeat\_grace and osd\_heartbeat\_interval to cluster.manifest  
VSM-173 Can select same storage group in create replicated pool -- which should not

#### Known issues

VSM-191 VSM does not display the replica storage group.  
VSM-192 force nonempty.  
VSM-188 Missing column in manage pool page.