



Resolved Issues and Caveats

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CML 1.5 Resolved Issues

- VM Maestro
 - VIRLDEV-1849: Attempt to preserve node names during a Copy/Paste operation. (reported by user Stuart Weickgenant)
 - VIRLDEV-3628: **Close all > console port connections** is not closing respective terminal views.
 - VIRLDEV-3903: GraphML export is producing corrupt files in at least some cases.
 - VIRLDEV-3946: In the **File > Export wizard**, disable the Finish button until a valid destination path is set.
 - VIRLDEV-4098: Validation of topology files stops with an error if the .virl file is not valid UTF-8.
 - VIRLDEV-4409: Limit the number of terminals a user can open at once. Prevents the user from opening more than 25 terminal with a "connect all" action. The limit can be modified in **File > Preference > Terminal > Cisco Terminal**.
 - VIRLDEV-4678: Fix "Snap to grid."
 - VIRLDEV-4681: When user creates a live packet capture, it is sometimes created with the wrong port number.
 - VIRLDEV-4736: Permit https protocol in the **File > Preferences > Web Services** page. (Note that the CML server does not support running the webservices over HTTPS in CML 1.5. This fix simply removes the restriction that prevented the use of an HTTPS URL in the web services preferences page in the UI.)
 - VIRLDEV-5205: Fix "SSH via Jumphost" when connecting to a node that's running on a cluster compute node.
 - VIRLDEV-5419: Provide menu action to add new, unconnected interfaces to a node. (requested by CLN forum member weaverjohnk and several others)
 - VIRLDEV-5420: Change label for bound_port extension in Properties view.

- VIRLDEV-5683: Default state of the Show Annotations toolbar button indicates that annotations should be shown, but they are not. (reported by CLN forum member eantowne1)
- VIRLDEV-5709: Do not permit a site with no members. If all nodes are removed from a site, remove the site from the topology.
- UWM
 - VIRLDEV-4768: Improve rosh terminal functions
 - VIRLDEV-4816: Improve raw REST error message reported in UWM when launching with Maintenance Mode on
 - VIRLDEV-5075: Maintenance mode switch/toggle in UWM
 - VIRLDEV-5234: Change of public controller IP is not handled OK
 - VIRLDEV-5307: When checking a node, the buttons are still disabled
 - VIRLDEV-5368: Bad error when clicking Upgrade while sysconfig is run
 - VIRLDEV-5380: Dead link to OpenVPN guide
 - VIRLDEV-5393: UWM sysconfig should be aware of public IP/port change
 - VIRLDEV-5454: Management port option fails for simulation with jumphost
 - VIRLDEV-5514: System Console option missing in System tools on mobile view
 - VIRLDEV-5630: When redirecting to a form, the values are not remembered in some cases
 - VIRLDEV-5739: Sysconfig recap needs to list sections of fields too.
 - VIRLDEV-5832: UWM shouldn't report versions as null
 - VIRLDEV-5932: Rehost does Not prompt customer to reboot
 - VIRLDEV-5974: Seeing job failures after updating passwords,ports and primary project
 - VIRLDEV-5988: UWM: Show traffic graph alignment is overlapping and also data is not flowing
 - VIRLDEV-5993: **VM Control** > **Nodes** table missing blue icon on node building
 - VIRLDEV-5994: Expanded submenu is overlaid by page content
 - Enhancements related to System Configuration changes
 - VIRLDEV-5399: Avoid rehost and package installs by sysconfig
 - VIRLDEV-5536: Switch checkboxes to enabled/disabled switches
 - VIRLDEV-5521: Width of the progress bars should be constant
 - VIRLDEV-5542: Consistent sysconfig button labels and highlighting
 - VIRLDEV-5558: Flat network configuration redesign
 - VIRLDEV-5611: Add a question mark for hovering instead of the tooltip
 - VIRLDEV-5563: Allow disabling upgrades/sysconfig to other admins.
 - VIRLDEV-5599: Implement sysconfig Cisco section

- CML Core
 - VIRTDEV-5121: Health check for differences between grains and viri.ini
 - VIRTDEV-5294: SSH to coreos need not always be closed
 - VIRTDEV-5303: Investigate whether we can clear openstack_id for confirmed absent nodes/ports/networks
 - VIRTDEV-5308: Protect against slow docker registry
 - VIRTDEV-5325: Add CML iptables rules to prevent accidental filtering of traffic between network addresses that overlap with the docker0 default network range. (reported by user David Prall)
 - VIRTDEV-5355: viri_health_status - error loading json
 - VIRTDEV-5373: OpenVPN must use FLAT subnet for client IP range
 - VIRTDEV-5381: STD strips whitespace in initial configuration
 - VIRTDEV-5382: SystemD ntp service doesn't kill ntpd sometimes
 - VIRTDEV-5408: Move MySQL IP to binding to loopback only to prevent MySQL failures and make system start up more robust.
 - VIRTDEV-5415: Provide workaround for MAC clashes with multiple CML installs on same flat segment. (See Caveats section below.)
 - VIRTDEV-5490: Could not acquire a DHCP address when deployed on an ESXi server with multiple networks. We now boot with no interfaces up, and each interface is raised one-at-a-time to test for public-access and determine the management interface.
 - VIRTDEV-5491: Fix operations that fail when running a simulation that has an ampersand (&) in the simulation name.
 - VIRTDEV-5895: Badly-formatted error message on simulation port pool exhausted
 - VIRTDEV-6001: Docker registry uses default network after Flat1 configuration
 - VIRTDEV-6049: Fix slow CSR1000v performance with Kernels 4.3 and later. Disabled dynamic halt-polling by setting halt_poll_ns_grow=0 option for the kvm module.
 - VIRTDEV-6103: Handle recent CPU vulnerabilities by updating to kernels with KPTI. <https://wiki.ubuntu.com/SecurityTeam/KnowledgeBase/SpectreAndMeltdown>
 - VIRTDEV-6117: Bind Redis only to localhost.
- Clusters
 - VIRTDEV-5068: Setting link parameters is not working when running a simulation on a cluster.
 - VIRTDEV-5110: Cluster: Updating OpenStack password on controller is not updating corresponding configuration on compute nodes
 - VIRTDEV-5155: Cluster: Disabling cluster/individual compute nodes is not working as expected
 - VIRTDEV-5164: Rework with cluster configuration process.
 - VIRTDEV-5231: Setting link parameters has no impact on that link on cluster server -- part 2

- VIRLDEV-5562: Replace UWM Cluster configurations

Caveats

Component	Bug ID	Notes
ANK	VIRLDEV-4878	<p>IOSvL2 generated config inconsistent. In IOS (XE, XR, NX-OSv) we have (or equivalent):</p> <pre>username cisco privilege 15 secret cisco line vty 0 4 login local</pre> <p>this is missing in the IOSvL2 configuration and might cause automation tools to fail if they assume that logging in using 'cisco/cisco' gives them automatic privilege level 15 ('enabled') access.</p> <p>Workaround: Add the configuration manually, if needed.</p>
ANK	VIRLDEV-4739	<p>ANK creates an exception when trying to generate a VRF configuration for NX-OSv and NX-OSv 9000: "Error generating network configurations: 'dict' object has no attribute 'vrf'. More information may be available in the debug log." This is a known limitation in ANK.</p> <p>Workaround: None.</p>
BBE	VIRLDEV-5159	<p>The browser based editor might occasionally generate invalid CML files. This has been observed with large topologies (hundreds of nodes). In such a case, the CML server refuses to start the topology.</p> <p>Workaround: Double check the generated links or use VM Maestro.</p>
BBE	VIRLDEV-3730	<p>Topology is not loading in browser based editor when remote .virl file option is selected. Files can be located on Git or via an arbitrary URL.</p> <p>Workaround: Save the file locally first.</p>
BBE	VIRLDEV-6066	<p>The Browser-Based Editor (BBE) does not support IOS XRv 9000 nodes. If a topology uses an IOS XRv 9000 node, attempting to open the topology in the BBE results in a blank page. No topology is shown on the canvas.</p> <p>Workaround : Use VM Maestro if you need to use IOS XRv 9000 nodes.</p>

Component	Bug ID	Notes
STD	VIRLDEV-4877	<p>With CML 1.3, the product is restricted to a single project and user. This change manifests in two areas:</p> <ol style="list-style-type: none"> 1. removal of 'Add' and 'Import' buttons for project and user creation 2. ability to run simulations of multiple projects at the same time <p>This change is in line with the positioning of the 'personal edition' where the product is designed to be used by individuals ('single user').</p>
STD	VIRLDEV-4468	<p>In situations with low free disk space, CML core software upgrades might fail. This is also dependent on the size of the configured Cinder file (block storage for VM images). The default for that file is 20GB.</p> <p>Workaround: Ensure that enough disk space is available.</p>
STD	VIRLDEV-5042	<p>Very large topologies between 100 and 300 nodes might misbehave when leaving ANK configuration generation parameters at default which produces huge topology files due to generation of a full iBGP mesh. This can manifest in:</p> <ul style="list-style-type: none"> • timeouts while waiting for ANK to generate the topology • errors when displaying configuration differences in VM Maestro • errors when downloading the resulting topology file in VM Maestro or in UWM • runtime errors where nodes might not be coming up or put too much strain on system resources due to unrealistic configurations. <p>Example: A 300 node topology with default ANK settings will produce $300 \times 300 = 90,000$ iBGP configurations for the topology which will result in a $\gg 10$MB topology file.</p> <p>Workaround: If ANK configuration generation is required, it is suggested to use valid constraints like multiple ASs, route reflectors and other means to split the simulation domain into more manageable chunks.</p> <p>Note that even if you are not using ANK to generate full configurations, it is still possible to generate IP addresses and default accounts but not full configurations by running ANK in "infrastructure only" mode. In the UI, click on the topology background, and set the "Infrastructure Only" property to true in the topology's AutoNetkit page in the Properties view before invoking ANK to Build Initial Configurations.</p>
STD	VIRLDEV-4345	<p>Connecting to statically assigned console ports is slow when accessing these ports in fast sequence (as with SecureCRT opening a set of ports at the same time).</p> <p>Workaround: Manually open the ports in sequence.</p>
STD	VIRLDEV-4588	<p>Docker image names cannot contain upper case letters.</p> <p>Workaround: Use lower case image names</p>

Component	Bug ID	Notes
STD	VIRLDEV-4710	<p>The rules governing the effective name of an LXC image are not consistent between creation, modification, and use in the simulation. The name is produced as a combination of the owning project, subtype name, and version suffix set by the user when the image is created. The use of subtype name can be overridden by the subtype definition's <code>baseline_image</code> attribute, usually to make use of a different subtype's installed images by that subtype.</p> <p>Workaround: Do not set this property for custom LXC subtypes. It is also recommended that an LXC image, when being added, is not marked for use by a specific project, and that the <code>Modify container</code> function is not used to alter the suffix of the name.</p>
STD	VIRLDEV-4819	<p>Machines with high CPU count might require a different amount of database and front-end processes to be able to deal with requests.</p> <p>Symptoms of the issue can be:</p> <ul style="list-style-type: none"> • failed sim starts • failed UWM dialogs dealing with node resources or simulations <p>By default, the values are set for small machines which should be fine for CMLrsonal edition. CML has the ability to adjust these settings based on built-in empirical values which are applied whenever a rehost is run.</p> <p>Alternatively, run <code>' salt-call -linfo state.sls openstack.worker_pool '</code> or use the <code>vir1_setup</code> script, menu item 'Maintenance → 3 Reset OpenStack worker pools'.</p>
STD	VIRLDEV-5326	<p>Docker by default creates SNAT / MASQUERADING iptables entries for the default docker0 bridge. This can interfere with simulation network traffic when used IPv4 networks are overlapping.</p> <p>The default 172.17.0.0/16 masquerading entry has been removed. However, there is at least one entry left for the Docker registry with a /32 address which cannot be used in any simulation.</p> <p>Workaround: Don't use the 172.17.0.0/16 network whenever possible. Check the masqueraded IP addresses currently in use by the local registry by typing <code>sudo iptables -L -v -tnat</code></p> <p>Example (excerpt):</p> <pre>0 0 MASQUERADE tcp -- any any 172.17.0.2 172.17.0.2 tcp dpt:5000</pre>

Component	Bug ID	Notes
STD	VIRLDEV-5360	<p>When configuring 'logging console' in cases where neither the Jumphost nor the LXC Management node are available (e.g. off), configuration extraction may fail due to unexpected output as the extraction mechanism is falling back to use theconsole.</p> <p>Also, configuration extraction might fail when consoles are opened via UWM.</p> <p>Workaround: Don't configure any logging on the console and / or don't turn off the management LXC / Jumphost. Don't have consoles open via UWM when extracting configurations.</p>
STD	VIRLDEV-5365	<p>When the local time of the host computer that runs the VM is in a timezone >0 (e.g. east of Greenwich), NTP might step the clock back at system start which might confuse STD and therefore results in a licensing issue due to invalid time.</p> <p>Workaround: Restart STD/UWM using <code>sudo salt-call -linfo state.sls virll.restart</code></p>
STD	VIRLDEV-5387	<p>NTP does not sync under certain circumstances. If this happens, please contact the Cisco Technical Assistance Center (TAC).</p> <p>Workaround: Restart NTPd using <code>sudo systemctl restart ntp</code>, check with <code>ntpq -p</code>.</p> <p>Sometimes, it was sometimes necessary to kill the ntpd process manually:</p> <pre>sudo systemctl stop ntp killall ntpd sudo systemctl start</pre>

Component	Bug ID	Notes
STD	VIRLDEV-6250	<p>In version 1.5.145, the CML back end does not respect the <code>vir1_local_ip</code> setting when reporting its IP address in web service responses.</p> <p>Background : You would use <code>vir1_local_ip</code> if you're running your CML server behind a firewall that does NAT. While you can configure VM Maestro's web services to use the CML server's public IP address, the web services responses from the back end will reference the CML server's primary interface's (private) IP address. One symptom is that VM Maestro will be able to launch a simulation, but then it will be unable to telnet to the devices in the simulation because it's trying to connect to CML server's private IP address. (You will also see the CML server's private IP address in the Connect to... menus in VM Maestro when you right-click on a node in a running simulation.) To solve this problem in earlier CML 1.3, you could set the <code>vir1_local_ip</code> property to the CML server's public IP address. In web service responses, the CML server would use the value of the <code>vir1_local_ip</code> property instead of its primary interface's IP address.</p> <p>How to check? The <code>vir1_local_ip</code> property has never been exposed in the UWM's System Configuration pages. If you are not sure whether you're using the <code>vir1_local_ip</code> property, you can check:</p> <ul style="list-style-type: none"> • Log in to the CML server's console (SSH to the system or open the Console in VMware). • Run the following commands <pre data-bbox="781 1136 1344 1192">crudini --get /etc/virl/virl-core.ini DEFAULT vir1_local_ip crudini --get /etc/virl/virl.cfgi DEFAULT vir1_local_ip</pre> <ul style="list-style-type: none"> • If those commands return no output at all, then you are <i>not</i> using <code>vir1_local_ip</code>, • If those commands return one or more lines that include the <code>virl_core_ip</code> property, then you are using the <code>vir1_local_ip</code> feature. <p>Workaround : None. If you need to use this setting, do NOT upgrade to CML 1.5 at this time. Cisco is planning to release a bug fix update to the 1.5 release to address this problem. Once that update is available, you will be able to upgrade to 1.5 without losing the functionality provided by the <code>vir1_local_ip</code> property.</p>

Component	Bug ID	Notes
STD	VIRLDEV-5415	<p>Multiple CML instances should not be connected to the same FLAT/FLAT1 network segment as MAC address clashes can occur for IOSv-L2 VMs in that case due to MAC address handling for those VMs.</p> <p>Workaround: If you would like to run multiple CML installations on the same FLAT segment, and you would like to run simulations using the FLAT management setting, set the decimal value for the new configuration key to a different value for each installation that shares the FLAT segment:</p> <pre>sudo crudini --set /etc/vir/vir/core.ini orchestration first_mgmt_mac_byte \$((0x5a)) sudo service vir-std restart</pre> <p>The '\$((0x5a))' is translated by bash into 90. The default is 94 (0x5e).</p> <p>Constraints on the value of first_mgmt_mac_byte:</p> <ul style="list-style-type: none"> • Due to product constraints, the value must be an integer between 1 and 255. • Due to MAC address rules, it should be an even number and <i>not</i> divisible by 4, which indicates a local unicast MAC address (see https://en.wikipedia.org/wiki/MAC_address#Universal_vs._local).
STD	VIRLDEV-6187	<p>Default cluster network settings are not configurable in a non-cluster installation. A cluster (internal) network is used and configured on interface br4 of all CML hosts, with a /24 subnet that defaults to 172.16.10.0/24. In case that default network is being used in the customer's network, and the CML host needs to interact with hosts in this network, the user should be allowed to change the default cluster network even in a non-cluster installation.</p> <p>Workaround : Configure the CML installation as a cluster with zero compute nodes. It will effectively function as a standalone installation, but it will permit you to customize the cluster network configuration settings.</p>
Live Vis	VIRLDEV-5085	<p>In LiveVis, when selecting the 'Clear Log' option a pop-up message might include a "Prevent this page from opening additional dialogs". If the user selects that option may prevent the system from collecting further log messages. This is a known issue and it is also browser dependent.</p> <p>Workaround: Do not select this option when offered by the browser.</p>

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Live Vis	VIRLDEV-4899	<p>Downloading the Syslog as CSV from within Live Vis is not working on Safari and results in a page error. This is a known limitation with the Safari browser.</p> <p>Workaround: Use a different browser like Firefox or Chrome.</p>
Live Vis	VIRLDEV-4898	<p>Extracting configurations from a running topology within Live Visualization is not working as expected when using Safari. The document returned is shown as XML text, rendered in the browser and is not offered to 'save' into the Downloads folder. This is a known limitation.</p> <p>Workaround: Use a different browser like Firefox or Chrome or save the resulting XML text manually into a .virl file.</p>
Live Vis	VIRLDEV-4698	<p>In Live Visualization, NX-OSv interfaces are listed twice in the interface table, one time showing IP, other showing None. When retrieving the interface table from an NX-OSv device, some entries show twice in the output. This is only cosmetic and might cause a spurious extra line being drawn.</p>
Live Vis	VIRLDEV-4223	<p>Live Visualization might not work properly when changing the UWM port. UWM offers the ability to change it's listening port from 19400 to another port. When doing so, this might have side effects in Live Visualization.</p> <p>Workaround: Do not change the UWM port.</p>
Live Vis	VIRLDEV-4202	<p>The overlay menu button to switch among different overlays might get blocked after updating Live Vis Web server port. In UWM, it is possible to change the Live Vis Web server port from 19402 to a different port. This might result in a blocked overlay menu button (not showing any entries). The image below illustrates the correct menu behavior whereas when broken, the entire drop down part of the menu is missing.</p> <p>Workaround: None</p>
Live Vis	VIRLDEV-4695	<p>In Live Visualization, the 'Physical Live' Overlay does not correctly show physical links for XRv nodes. This is a known defect.</p> <p>Workaround: None</p>
Live Vis	VIRLDEV-4306	<p>IOS XRv 9000 is not fully supported in Live Visualization.</p> <p>Workaround: None</p>
Live Vis	VIRLDEV-4922	<p>In Live Visualization, the 'Collect Log' action fails for NX-OSv.</p> <p>Workaround: None</p>

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Live Vis	VIRLDEV-4949	Sometimes, BGP VPNv4 links are not being drawn in Live Visualization. Workaround: None
Live Vis	VIRLDEV-4342	Large (80-300+) topologies might not render properly and perform slower than expected in Live Vis. Workaround: None
Live Vis	VIRLDEV-5035	Live Vis does not fully support NX-OSv 9000. Workaround: None
UWM	VIRLDEV-5061	Preview of a topology before launching the simulation does not render properly with certain browsers. This happens with Windows and Internet Explorer. IE is not a supported browser. Workaround: Switch to Chrome or Firefox to prevent the issue from showing.
UWM	VIRLDEV-2167	When importing projects into the system, the uwadmin password in vir.ini was out of sync with the database. To avoid this issue, the uwadmin project is skipped when importing projects into the system. Workaround: Manually change the password after importing to get the correct password into the system.
UWM	./.	When configuring networks in UWM, OpenStack Neutron networks may not be created OK when configuring the same name server twice (identical name servers) Workaround: You must choose different name servers.
UWM	VIRLDEV-6084	Some updates may fail if more than one update process is run at the same time. Workaround : Only run one update process at a time. System update processes include updates applied in the UWM pages <ul style="list-style-type: none"> • CML Server > System Configuration • CML Server > CML Software • CML Server > System Upgrade For example, do not run two separate CML Software updates at once, and do not run a CML Software update at the same time as a System Configuration change is being applied.
UWM	VIRLDEV-6097	If the maintenance mode is enabled, and the admin tries to upgrade LXC images via the CML Server > CML Software page, the upgrade will fail with an error. Workaround : disable maintenance mode before going to the CML Server > CML Software page.

Component	Bug ID	Notes
UWM	VIRLDEV-6249	<p>If you have a CML cluster controller configured with cluster enabled but no compute nodes associated with the controller, some CML Server > System Configuration changes will report job failures as part of the change. These system configuration changes are trying to push configuration changes to the cluster compute nodes without checking first whether there are any cluster compute nodes available.</p> <p>Workaround : None. If no cluster compute nodes are configured, it is safe to ignore the failure of jobs related to making changes on the compute nodes.</p>
UWM	VIRLDEV-6261	<p>In the CML Server > System Upgrade page, there is a list of packages to install in the first table. If you select all on that first table and then press the Upgrade button, the request will be denied with an HTTP 400 error.</p> <p>Workaround : This error is triggered by bad behavior of the <i>select all</i> functionality on that table. Selecting packages individually works as expected.</p>
UWM	VIRLDEV-6271	<p>When making CML Server > System Configuration changes, attempting to change the primary project name at the same time as attempting to make the other system configuration changes will cause those other system configuration changes to fail.</p> <p>Workaround : when changing the primary project, just make that one change. Once the primary project has been changed, you may return to the UWM to make the other system configuration changes.</p>
VM Maestro	VIRLDEV-4434	<p>In VM Maestro, use external browser for both ANK vis and Live Vis. We've had reports about using the internal browser for ANK and Live Visualization from within VM Maestro.</p> <p>Workaround: Use an external browser, configure as shown above.</p>
VM Maestro	./.	<p>Terminal preference for detached internal terminals - this function has been deprecated in VM Maestro 1.2.4 onwards.</p> <p>Workaround : You can manual 'tear' the terminal pane from the main VM Maestro window. Use this in conjunction with the VM Maestro preference (Cisco terminal) - "multiple tabs for one simulation".</p>
VM Maestro	VIRLDEV-3525	<p>In VM Maestro (1.2.8 build 474), the scroll bar in the Preferences > Node Subtypes dialog doesn't work properly on OS X 10.11 and newer.</p> <p>Workaround: Configure scroll bars to 'always show' in the General section of the System preferences as shown above.</p>

Component	Bug ID	Notes
VM Maestro	VIRLDEV-4680	Under rare circumstances, the Telnet menu is missing on a few nodes in the simulation Workaround: None
VM Maestro	VIRLDEV-4820	Occasionally, the message 'Unexpected end of input within/between OBJECT entries' can be observed in VM Maestro's <i>Simulations</i> panel. This is mostly cosmetic as it recovers automatically. Workaround: None
VM Maestro	VIRLDEV-5042	While running ANK, when clicking 'yes' on "View configuration changes dialog" the dialog disappears resulting in 'Unable to connect to Vis Server' error in console. This happens for large topologies. Workaround: None
VM Maestro	VIRLDEV-6061	If a node is part of a site when the network simulation is launched, you cannot start a traffic capture on the node. Workaround : before launching the simulation, ungroup the site. That is, select the site and select Edit > Ungroup Site from the main menu before launching a simulation with the topology.

Component	Bug ID	Notes
VM Maestro	VIRLDEV-6288	<p>Sometimes, installing a new version of VM Maestro on an OS X system that already has VM Maestro installed leads OS X to report that the application is damaged.</p> <p>Workaround:</p> <p>1) The most likely cause of that error on OS X is a combination of OS X's default security settings, lack of signing of the OS X version, and some terrible error reporting from OS X. Try this:</p> <ul style="list-style-type: none"> • Open the OS X System Preferences • Click Security & Privacy • Click General. • If necessary, click the little lock on the bottom to unlock the page. • Switch the option to say "Allow apps downloaded from" > Anywhere. • Close the Security & Privacy dialog • Now try to launch VM Maestro. • If that works, you can now go back and change your Security & Privacy setting back to their defaults. <p>Unfortunately, since Sierra, that Security & Privacy dialog no longer shows in the security preferences. In that case, your options are:</p> <ul style="list-style-type: none"> • Remove the "quarantine" attribute that may be causing the symptoms you're seeing: <ul style="list-style-type: none"> • Open the Terminal.app. • Remove the quarantine attribute: <ul style="list-style-type: none"> • <code>sudo xattr -d -r com.apple.quarantine /Applications/VMMaestro-1.5.0-510/</code> • Re-enable the install from "Anywhere" option for Sierra. <ul style="list-style-type: none"> • See http://osxdaily.com/2016/09/27/allow-apps-from-anywhere-macos-gatekeeper/ • Then follow the instructions above to run VM Maestro.

Component	Bug ID	Notes
VMs	VIRLDEV-3616	When running ASAv nodes using the bundled ASAv image, the console of the ASAv is bound to the serial port. By default, 'vanilla' ASAv images downloaded from CCO are having their console bound to the 'VGA' screen which is accessible in CML using the VNC option. However, access to the console is EITHER on the serial port OR on the VGA screen, never both. Since it is not known where the console is bound to (serial or VGA), both options are offered to the user but only one option will succeed.
VMs	VIRLDEV-5092	<p>NX-OSv / NX-OSv 9000 nodes remain UNREACHABLE and connect to monitor port doesn't connect.</p> <ul style="list-style-type: none"> NX-OSv (Titanium) nodes might not be available on the management interface. This is a reference platform issue where sometimes the Mgmt0 interface is stuck in 'down/up' state. E.g. the interface is 'admin up' but the link is indicated as 'down'. <p>Workaround: Manually issue a 'shut / no shut' sequence on the management interface of the affected node</p> <ul style="list-style-type: none"> NX-OSv 9000 nodes create unnecessary broadcast traffic on the management interface. This is a reference platform issue where NX-OSv 9000 nodes respond to frames not owned by the node which might result in a broadcast storm of IP redirect packets on the management network. <p>Workaround: Configure 'no ip directed-broadcast' on the management interface of NX-OSv 9000 nodes.</p> <ul style="list-style-type: none"> NX-OSv 9000 nodes occasionally (less than 5 in 100 launches) do not become reachable even with the aforementioned workaround. A restart of the affected node usually resolves this.
VMs	VIRLDEV-4682	<p>The subtype for Ostinato has changed between OpenStack Kilo and OpenStack Mitaka. When upgrading to CML 1.3 from 1.2 and thus staying on the OpenStack Kilo release, the Ostinato 0.8.1 image will not be used due to the mismatch in the subtype (lxc-ostinato vs. lxc-ostinato-drone).</p> <p>Workaround: Change subtype for affected nodes to 'lxc-ostinato-drone'</p>
VMs	VIRLDEV-4955	<p>IOS XRv 9000 duplicate management IP configuration. IOS XRv 9000 nodes acquire the same IP for both the XR operating system layer and its associated management interface as well as for an underlying Linux layer which uses the same 'physical' interface.</p> <p>Workaround: None</p>

Component	Bug ID	Notes
VMs	./.	<p>IOSv 15.6(2)T - On boot-up the following (similar) message may be observed: %SYS-3-CPUHOG: Task is running for (1997)msecs, more than (2000)msecs (0/0), process = TTY Background. -Traceback= 114ECF8z 130425z 15E20Ez 15DF30z 15DD3Dz 157D75z 158A2Bz 1589BFz 159B67z 153672z 3C9740Az 3C868CEz 3C89BEFz 5125F91z 491D86Cz 492E540z - Process "Crypto CA", CPU hog, PC 0x00157D2C</p> <p>Workaround: This is cosmetic and can be ignored.</p>
	./.	<p>Versions older than of NX-OSv 9000 7.0.3.I6.1 require 8GB of memory. Starting with the I6 release, the memory footprint has been reduced to 4G.</p> <p>Workaround: When installing the image, a flavor with 4GB is created. When using an older version, make sure to create and assign the appropriate flavor which allocates 8GB of memory.</p>
	./.	<p>When IOS XRv 9000 is booting, if you enter text at the console, the boot will drop to a CLI login prompt for the admin user. This prompt prevents the pre- blocks CVAC, causing initial configuration application to be abandoned.</p> <p>Workaround : Do not open a console until the node becomes reachable, or don't enter any text into the console (not even enter to check if any output will be generated), or enter a valid pair of credentials (which are named neither cisco nor admin) as soon as the prompt appears.</p>
	VIRLDEV-6074	<p>CML has provided support for a reference platform image based on the Nexus 9k code since December 2016. This subtype for this image is NX-OSv 9000. Cisco has changed the name of this image to Nexus 9000v. CML has no Nexus 9000v subtype.</p> <p>Workaround : None. Just use the NX-OSv 9000 for Nexus 9000v images.</p>

Component	Bug ID	Notes
	VIRLDEV-6416	<p>Default NX-OSv 9000 memory allocation is not sufficient. When launching a topology simulation that uses multiple NX-OSv 9000 nodes, some of them will fail to boot.</p> <p>The "flavor" used by default for NX-OSv 9000 was changed to use 4 GB of RAM with the release of NX-OSv 9000 version 7.0.3.I6.1, but that memory allocation has proved to be too small in practice. We continue to work with the Nexus team to determine optimal default resource settings for NX-OSv 9000 and the other router VM images, and future releases of CML will increase the memory allocation for the default NX-OSv 9000 flavor.</p> <p>Workaround : If you need to use NX-OSv 9000 nodes now, we recommend replacing the NX-OSv 9000 flavor with a new flavor that has a larger memory allocation.</p> <ul style="list-style-type: none"> • Login to the UWM as the uwmadmin, and navigate to Node resources > Flavors. • Click the Delete icon in the Options column for the NX-OSv 9000 flavor to delete the default flavor. • Click the Add button to add a new flavor. • On the Create Flavor form, enter the values <ul style="list-style-type: none"> • Name: NX-OSv 9000 • RAM (MB): 6144 • Virtual CPUs: 2 • Disk (GB): 0 • Click the Create button. <p>Simulations that you launch after making this change will use the new flavor and the 6 GB memory allocation for all NX-OSv 9000 nodes.</p>

