HP Continuous Delivery Automation

Release Notes

Software version: 1.20, April, 2013

This document provides an overview of HP Continuous Delivery Automation (HP CDA) for Release 1.20. It contains important information not included in the manuals or in online help.

In This Version

HP Continuous Delivery Automation (HP CDA) provides a model-driven approach to DevOps collaboration, automation of application deployment, and monitoring. HP CDA enables customers to focus on their core applications and to drive business values while reducing costs, risks, and time to perform provisioning and deployment tasks. Core HP CDA features include:

- Modeling the application and infrastructure configuration to deliver infrastructure-as-code for deployment and provisioning
- Full artifact version control, role-based access, application lifecycle management, and Definitive Software Library (DSL)
- Application deployment management using configurable tool options
- Infrastructure provisioning management across hybrid environments
- Embedded monitoring deployment in conjunction with application deployment

For more information about supported hardware and software, refer to the *HP Continuous Delivery Automation Platform and Software Support Matrix*, available at: **http://h20230.www2.hp.com/selfsolve/manuals**

Documentation Updates

The first page of this document contains the following identifying information:

- Version number, which indicates the software version
- Publish date, which changes each time the document is updated

To check for recent updates or to verify that you are using the most recent edition, visit the following URL:

http://h20230.www2.hp.com/selfsolve/manuals

Installation Notes

Installation requirements, as well as instructions for installing HP Continuous Delivery Automation, are documented in the *HP Continuous Delivery Automation Installation and Configuration Guide* provided in Adobe Acrobat (`.pdf`) format. The document file is included on the product's electronic media under the following folder:

- **cda-iso-1.20\CDA 1.20\Documentation**

Contents

Known Problems, Limitations and Workarounds

General

HP recommends following Microsoft security best practices.

QCCR1M6497 HP recommends following Microsoft security best practices.

Description	HP recommends that you configure the Microsoft Windows Server system running HP CDA 1.20 as per Microsoft security best practices, as well as your organization's security policies and processes.
Workaround	Please refer to the link below. **Secure Windows Server** http://technet.microsoft.com/en-us/library/dd548350%28v=ws.10%29.aspx

CDA models only support Unix Shell and Windows PowerShell scripting tools

QCCR1M2347 Executed script common component does not specify interpreter to run script

Description	In the Executed script component of the layer workflow (for both Platform and Application Layer workflows), HP CDA currently supports only shell scripts on Linux/Unix platforms and PowerShell scripts for Microsoft Windows.
Workaround	Ensure that deployment scripts written in the Executed Script component of Application and Platform software layer workflows are shell scripts for Linux/Unix platforms and PowerShell scripts for the Windows platform.

HP CDA installation on Korean Linux platform successful, but cannot start service

QCCR1M7423 L10N The latest MR build can be successfully installed On KO linux platform, but the service cannot be started

Description	The latest HP CDA build can be installed on the Korea Linux platform, but the service cannot be started.

Workaround	This issue is encountered when the random number generator module is not present on the Linux system.
	To install and configure the module:
	1. Install the random number generator:
	`yum install rng-tools`
	2. After installation, edit the `/etc/rc.d/rc.local` file by locating the following statement:
	`# way how to increase entropy for /dev/random, entropy is fetched from /dev/urandom. It is not so solid but it work for Oracle`

	And adding the following information: `/sbin/rngd -r /dev/urandom -o /dev/random -t 55` 3. Restart the system.

When password encryption is enabled in HP CDA 1.10, the Installation wizard is blocked during upgrades

QCCR1M7200 Upgrade to CDA 1.20 initiated through CLI if Password encryption is enabled on CDA1.10

Description	If Password Encryption was enabled for an HP CDA1.10 installation, then the installation wizard is blocked when you attempt to upgrade to HP CDA 1.20. Users receive the message: "Com.hp.systinet.comfiguration.pe.PasswordEncryptionException.Required password encryption passphrase missing, please specify it as the password.encrytion.passphrase Java property."
Workaround	Enter the following CLI command to launch the Installer: `java - jar installer.jar –passphrase <passphrase provided during CDA1.10 installation>`

Unable to get the details of a server group name using Unicode characters even though the server group has been added successfully

QCCR1M6109 CLI - I18N: Not able to get the details of server group, named with Unicode characters though the server group is added successfully

Description	In the HP CDA CLI only, server group details are not listed when you use the `get` option, despite the fact that the server group has already been added successfully.
Workaround	Only use the List option to view server details.

Localized Date and Time formats not displaying correctly

QCCR1M6918 I18N: Date and time formats are not according to the locale on which CDA is installed

Description	If an English language build of HP CDA is installed on non-English platforms, the Date and Time are not displayed using the local format.
Workaround	For date and time formats to reflect local format, install a local build of the product.

Applications

SA job status remains "In Progress" even when Deployment fails

QCCR1M3398 SA job status should be Failed in SA NGUI when Deployment Failed

Description	In some scenarios the overall job status shown in SA NGUI is incorrect for a failed job, while it is reported correctly in the CDA UI. For example, a CDA-triggered SA deployment job fails and CDA

	displays the "Failed" status correctly, but in the SA NGUI the overall status is shown as "In Progress".
Workaround	For a CDA-triggered job, verify the status in the CDA UI.

When using HTTPS as an external source, store passwords using a full URL string or the wildcard character *

QCCR1M6522 Document that using https as external source; user has to store password with full URL string or use wildcard *

Description	Application deployment fails when a software artifact specifies HTTPS as an external URL.
Workaround	To add the password for an HTTPS link: 1. Navigate to the Administrator > Overview tab. On the right side of the window, click **Saved Passwords**. 2. Click **Add username/password** and enter *either*: o The full URL string o The wildcard character * .

Application deployment status is “Success” even when application deployment fails

QCCR1M3318 Chef Issue: Deployment succeeds and application start fails with DeploymentException: Unable to complete deployment

Description	When an application deployment fails, the status displays “Success.” Then, when the user subsequently attempts to start the application, it fails and shows an exception.
Workaround	All executed scripts run with Chef must explicitly return non-zero return codes on failure.

Platforms

Ports configured in Platform software connections are not enabled in the HPCS-provisioned security group

QCCR1M6493 Port configured in platform software connections is not enabled in HPCS provisioned security group

Description	Ports configured in platform endpoints and connections are not opened in the security group of provisioned HP Cloud Service hosts.
Workaround	Manually open the ports in security group after provisioning.

Monitors

Unable to apply monitoring tools for a deployed application

QCCR1M2128 Not able to apply monitoring tools for the deployed application

Description	HP CDA does not support addition of or modification to monitoring tools for an application that is already deployed.
Workaround	Un-deploy the application, assign the required monitoring policies, and then re-deploy the application.

Cannot add a monitor definition to the same policy with multiple parameter definitions

QCCR1M3219 Can't have two monitors with the same definition in a policy multiple times with different parameters (e.g., two URL monitors)

Description	You cannot add a monitor definition to the same policy with multiple parameter definitions. For example, the URL latency monitor that takes the URL as the parameter cannot be defined in the same policy with multiple URL parameters.
Workaround	There are two possible workarounds. 1. The user could create multiple monitor definitions, each with "hard-coded" URL values. Because they are separate monitor definitions, they can be included in the same monitoring policy. 2. The user could use separate monitoring policies for each monitor definition parameter value (for example, one for each URL parameter value).

Deployment of the same HP SiteScope policy to the same target directory by two or more HP SiteScope systems is not supported

QCCR1M2299 Multiple SiteScopes can create non-unique exceptions when processing events

Description	Deployment of the same HP SiteScope policy to the same target directory from two or more HP SiteScope systems generates an exception.
Workaround	You can avoid this problem by deploying the monitors of each HP SiteScope installation to different target directories.

Cloud Administration Dashboard, Cloud Installation Dashboard, and Cloud Connector

User cannot terminate a project topology when that topology is in a failed state

QCCR1M 7301 Trying to terminate a topology that is in Failed state throws HTTP 409 error

Description	Within Project > Topology, when a user selects the Terminate Topology action for a topology that is in a failed state (State = Failed), an error message is displayed with an HTTP 409 error message.
Workaround	Users should not attempt to perform this action. The Terminate Topology action is *only* meant for topologies in an active state (State = Active). If a user inadvertently invokes this action, he or she should dismiss the error message.

After applying a proposal for HP CDA and HP CSA, changes to the values in the HP CDA Cloud Installation Dashboard UI do not show up in HP CDA and/or HP CSA

QCCR1M 7242 Changing the values in Admin UI after applying proposal for either CDA or CSA won't reflect in respective configuration

Description	Changing the values in the HP CDA Cloud Installation Dashboard UI after applying a proposal for HP CDA and HP CSA does not ultimately show up in HP CDA and/or HP CSA.
Workaround	After applying a proposal for HP CDA and HP CSA, changes to the values in the HP CDA Cloud Installation Dashboard UI are not supported. HP CDA and HP CSA bar clamps are the wrapper for their respective installers, and late-changing values in the Cosmos UI will not be applied, as the Installer is invoked only *once* to install. Users must use the HP CDA/CSA UI to make any subsequent changes.

Service definition causes truncation and subsequent provisioning failure

QCCR1M 7298 Resource pool Add Service Version gets truncated and the Launch instance from skyline failed to find the load balance service definition in resource pool

Description	In Project -> Resource Pools -> Edit Service Definitions, users can edit values for a service's Version field. These values are being truncated. For example, values that appear like floating point numbers 1.0 and 23.0 are turned into 1 and 23, respectively. This causes subsequent provisioning against that Resource Pool to potentially fail.
Workaround	The problem is in a core library that is used to pass data between services. Therefore, users can avoid this situation by entering a version number as something other than a floating point number. For example, instead of entering 1.0, the user should start the version number with a lowercase "v" (for example, v1.0).

Importing documents using the Import Document button fails

QCCR1M 7284 Imported infrastructure design doc from previous export fails on provision with {"statusCode": 500, "message": "internal error, "details": "template cannot be null or empty"}

Description	On the Project: Documents panel, there is an Import Document button. If the user uses this button to import an Infrastructure Design document, it's possible that the document will not work and the launch of that document will fail. Essentially, users can import an Infrastructure Design document without realizing that it's not portable across clouds.
Workaround	Infrastructure Design documents are *not* portable across clouds. A user cannot export an Infrastructure Design document in one cloud and then import it into another cloud. A warning message notifies users about this situation.

Creating a volume that appears to be within size limits fail

QCCR1M 6128 Create Volume of a size that appears to be acceptable fails, but still lists in the Volume table

Description	When a user creates a volume of a size that appears to be within the Volume Quotas, the system displays a message that the volume was created, but the volume was not created successfully.

Workaround	1. If you are logged in as an Administrator, Nova returns all volumes. When you attempt to create a new volume through the dashboard, you may see in Volume Quotas there are no volumes available to create. In this case, log out and log back in as a User rather than an Administrator. 2. System admin needs to create a pool for volumes that is larger than what is specified in the limit; OR 3. Reduce the size of the volume limit to match or be smaller than what is actually available on the disk.

Operating systems fail to appear for server group components in an infrastructure

QCCR1M 6134 CDA - Platform > Designer tab, OS list not listed in the Assigned Capabilities in HW&OS tab

Description	Operating systems are not shown for server group components in an infrastructure. When you display the platform Designer and access server group properties, operating systems are not listed.
Workaround	Create an infrastructure based on a specific HP Cloud Connector resource binding document. Then set the operating system. To set the operating system, follow the process (documented in HP CDA online help) to use platform Designer to update an infrastructure template's hardware and operating systems.

Access to HPCS or external image upload fails if Cloud Connector and Domain Controller are on the same node

QCCR1M 7078 Access to HPCS or Image Upload from external world fails if Quasar and Nova-Controller are on the same node

Description	Configuring external (public/internet) access to Controller node fails if Cloud Connector and Domain Controller are on the same node.

Workaround	This workaround is applicable for the Cloud Infrastructure where the Domain Controller and Compute Region Controller services share the same Controller Node.
	
	Regardless of public network environment set up through Cloud Administration Node, you need to provide additional interface to Controller that has direct access to an external (internet) network in the following scenarios:
	
	• Scenario 1. You are setting up Cloud environment to be able to provision instances on HP Cloud Services.
	• Scenario 2. You want to Upload Images in your Private Cloud directly from external web URL.
	
	To set up external access to your Controller Node:
	
	1. Power OFF the Controller node.
	2. Add another Network Interface Card to the Controller Node that has direct external access to the internet.
	3. Power ON the node.
	4. Run the following command to remove the existing default gateway:
	
	`route delete -net 0.0.0.0 gw <Public Network Gateway as defined in Cloud Installation Dashboard>`
	
	For example:
	`route delete -net 0.0.0.0 gw 10.1.128.10`

	5. Run the following command to request DHCP IP on eth3 (assuming the newly-added interface is detected as `eth3` and this network issues DHCP addresses): For example: `dhclient eth3` 6. Make steps 4 and 5 part of the boot sequence; otherwise, these configurations will be lost upon the next reboot of the controller node.

Integrations with HP CDA

Multi-tenancy is not supported in ALM

QCCR1M7414 CDA_ALM Integration: ALM supports only CDA > Default Domain and Does not support Multi Tenancy

Description	The ALM-CDA integration does not support multi-tenancy.
Workaround	For ALM-CDA configurations, use the CDA default (system) domain.

CSA publishing does not accept predefined Boolean values

QCCR1M 6518 CSA publishing does not accept predefined Boolean values

Description	Publishing Boolean parameters with custom true and false values fails when used with CDA-CSA integration for Platform Software or Applications. Publishing of Platform and Applications from CDA to CSA will succeed, however subscriptions from CSA to CDA will fail.
Workaround	Boolean parameters for Platform Software or Applications when used with CDA-CSA integration: • Will work only when the Boolean parameter value = "true" / "false" (lowercase) • Doesn't work with the current default Values "True" / "False" • Doesn't work with any custom values such as "Value true" / "Value false" or any other

Connection from HP ALM to HP CDA fails when the same or a new HP CDA Server is added in HP ALM

QCCR1M7241 ALM - CDA : ALM service has to be re started each time , whenever new CDA instance is pointed from ALM

Description	This issue presents when an HP CDA server has already been added to HP ALM Performance Center on the Lab Management tab, and then either of the following occurs: • The same HP CDA server is deleted and then re-added. • A different HP CDA server is added. Symptom: A failure message appears. Primary Software Components: HP ALM, HP CDA. Failure Message: “ALM failed to connect to the CDA server. Please contact your system administrator.” Probable Cause: A possible caching issue in a third-party component of HP ALM.

Workaround	Perform the following steps in the HP CDA user interface when logged in as an administrator user: 1. Click the Administration tab to open the Administration Home window. 2. On the Administration menu, choose Configuration to open the Configuration window, and then click the **System Settings** tab. 3. In the Name text box, enter "`shared.usermanagement.database.lwsso.issueCookie`" to search for that system setting. 4. Click the **Edit** icon to edit the system setting, set the value to "false," and then save the setting.

The parameter {server.hostname} returns different values during Provisioning and Deployment in HPCS

QCCR1M6597 Parameter {server.hostname} returns different values at provisioning and deployment times in HPCS deployments

Description	When deploying platform software (for example, the Diagnostic Probe), the hostname provided by HP CDA (such as "${server.hostname}") during provisioning is different from the hostname provided by HP CDA when deploying application software to these provisioned hosts. In the case of HP Diagnostics, this can cause problems deploying thresholds for monitoring the application software because the probe names are derived from hostnames.
Workaround	The workaround depends on the platform software being used (for example, whether hostnames are used to configure it when applications are deployed). In the case of HP Diagnostics, you can edit the Platform Software Deploy workflow to simply use `${server.ipaddress}` instead of `${server.hostname}`. To implement the workaround: 1. From the Platform tab, click **Browse Software**. 2. Select the Diagnostics probe software and go to the Workflows tab. 3. In the Deploy workflow you will see several steps. One of the last steps will have "`application.server.hostname`" as an input component parameter. Edit this parameter to refer to `${server.ipaddress}`.

The public IP of servers provisioned on the Cloud cannot be accessed using HP CDA

QCCR1M 7306 HPCS Public IP is not a reference variable in CDA

Description	The public IP of servers provisioned on the Cloud cannot be accessed using HP CDA. In this scenario, you can only install HP OA by using Chef as a deployer plug-in. SSH will not work because HP CDA can only expose the private IP of the OA instance on the Cloud.
Workaround	The Monitor server for HP OM should be configured using HP OM's public IP and SSH key to connect OM to the cloud.

ALM unable to launch Report page during build verification

QCCR1M 2865 CDA-ALM: Launching ALM Report Page giving Error

Description	ALM is unable to launch the Report page during build verification. This occurs when ALM is accessed from any Client machine (works fine in ALM Server system

	only).
Workaround	Ensure that the ALM Server hostname does not include any hyphen or underscore characters. If the hostname includes an underscore or hyphen, then ALM must be accessed by specifying the IP address.

Enabling ICMP in Matrix operating environment template firewall does not allow for negative ports

QCCR1M 6495 Enabling ICMP in MOE template firewall does not work with HPCS due to port being 0 (-1 expected in HPCS)

Description	When you add ICMP in Matrix operating environment templates, the firewall opens the ICMP for non-negative ports only. HP Cloud Service needs ICMP to be opened for ports from -1 to -1 for the ICMP ping to work (this is required for Nagios monitoring.
Workaround	Edit the security group of the provisioned host to add ICMP from port -1 to -1.

HP Operations Manager agent will not deploy when Chef is used as the deployer plugin

QCCR1M 7234 OM Operations Agent won't deploy while using chef as a deployer plug-in

Description	When deploying the platform software "HP Operations Agent for Unix" and using Chef as the deployer, the deployment fails because the type is not mentioned in the execution script.
Workaround	Add the line: `" #!/bin/sh "` to HP Operations Agent for Unix -> Deploy -> INSTALL OPERATIONS AGENT AND CONFIGURE TO OPERATIONS MANAGER

HP CDA-OM integration installer does not use existing .jar files to start the forward event groovy script

QCCR1M 7277 CDA OM integration script should use the already existing dependent jars in OM

Description	The jar files required to start the forward groovy script are not available in a single directory, so the CDA process will not begin until unless these files are placed in the `/opt/lib` directory.
Workaround	1. Create the directory: `/opt/lib`. 2. Copy the following jar files from `/opt/OV/OMU/adminUI/lib/midas/` to `/opt/lib`: • `cp /opt/OV/OMU/adminUI/lib/midas/commons-beanutils-1.8.3.jar /opt/lib` • `cp /opt/OV/OMU/adminUI/lib/midas/commons-codec-1.4.jar /opt/lib` • `cp /opt/OV/OMU/adminUI/lib/midas/commons-collections-3.2.1.jar /opt/lib` • `cp /opt/OV/OMU/adminUI/lib/midas/commons-lang-2.5.jar /opt/lib` 3. Copy the following jar files from `/opt/OV/nonOV/OpC/java/` to `/opt/lib`: • `cp /opt/OV/nonOV/OpC/java/commons-logging.jar /opt/lib` • `cp /opt/OV/nonOV/OpC/java/groovy-all.jar /opt/lib`

	• `cp /opt/OV/nonOV/OpC/java/xercesImpl.jar /opt/lib` • `cp /opt/OV/nonOV/OpC/java/xalan.jar /opt/lib` 4. Copy the following jar files from `/opt/OV/OMU/adminUI/lib/cli/` to `/opt/lib`: • `cp /opt/OV/OMU/adminUI/lib/cli/httpclient-4.1-alpha2-SNAPSHOT.jar /opt/lib` • `cp /opt/OV/OMU/adminUI/lib/cli/httpcore-4.1-alpha2-SNAPSHOT.jar /opt/lib` 5. Copy the following jar file to `/opt/lib`: `cp/opt/OV/nonOV/tomcat/b/www/webapps/sutk/cwc/js/dojo/dojox/off/demos/editor/server/lib/json-lib-1.0b2-jdk13.jar /opt/lib`. 6. Download the jar files `http-builder-0.5.1.jar` and `xml-resolver-1.2.jar` (internet) and copy them to the directory `/opt/lib`.

'Check for dependent services' action placed at wrong level

QCCR1M 7421 CDA should Place 'Check for dependent services' Action at the Root Component Level

Description	The 'Check for dependent services' action is at the wrong level. This manifests itself when you cancel a CDA subscription (using a service design published from HP CDA to HP CSA) while HP CDA is down.
Workaround	There are two possible workarounds: 1. Manually move the action (for example, you could delete from the bottom component and add it to the upper/root component) immediately after publishing the HP CDA platform. 2. Ensure that HP CDA is available and in a healthy state before cancelling an HP CSA subscription.

Contextual URL and alerts not working when the HP OM server and agents are in the HPCS Cloud

QCCR1M 7278 Contextual URL is not working when the OM server and agents are in HPCS cloud

Description	Contextual URLs and alerts are not being shown in the Application deployment. Because the matrix operating environment is providing the IP address instead of the HOSTNAME in HP CDA, the nodes provisioned from HP Cloud do not have the node name and it is not available in the server HOSTNAME reference variable in HP CDA.
Workaround	Resolve this issue by modifying the auto grant script before deploying operations agent platform software. 1. Navigate to the file `/opt/OV/contrib/OpC/autogranting/postcsad.sh`. You can use this script to modify the node name after the agent is added in to the OM node bank. 2. Add the following commands: `address=`echo $2 | awk -F= '{ print $2}'` `/opt/OV/contrib/OpC/opcchgaddr -force -label $node NETWORK_IP $address $node NETWORK_IP $address $address`  So the new content of postcsad.sh should look like the following: `#!/bin/sh`

	date >>/tmp/csad.out echo postcsad.sh : $* >>/tmp/csad.out node=`echo $1 | awk -F= '{ print $2}'` **address=`echo $2 | awk -F= '{ print $2}'`** echo Nodename = $node >>/tmp/csad.out **/opt/OV/contrib/OpC/opcchgaddr -force -label $node NETWORK_IP $address $node NETWORK_IP $address $address** /opt/OV/bin/OpC/utils/opcnode -assign_node node_name=$node net_type=NETWORK_IP group_name="SI-Deployment" >>/tmp/csad.out opclaygrp -add_lay_group node_hier=NodeBank lay_group=CDA_Nodes lay_group_label=CDA_Nodes > /dev/null /opt/OV/bin/OpC/utils/opcnode -move_nodes node_list=$node node_hier=NodeBank layout_group=CDA_Nodes /opt/OV/bin/OpC/opcsw -installed $node # /opt/OV/bin/OpC/opcragt -dist -simulate $node >>/tmp/csad.out sleep 1 /opt/OV/bin/OpC/opcragt -dist $node -highprio >>/tmp/csad.out sleep 1 /opt/OV/bin/OpC/opcragt -dist $node -highprio >>/tmp/csad.out

Support

You can visit the HP Software support web site at:

www.hp.com/go/hpsoftwaresupport

This web site provides contact information and details about the products, services, and support that HP Software offers.

HP Software online software support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and sign in. Many also require an active support contract. To find more information about support access levels, go to the following URL:

http://h20230.www2.hp.com/new_access_levels.jsp

To register for an HP Passport ID, go to the following URL:

http://h20229.www2.hp.com/passport-registration.html

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