IBM Agile Lifecycle Manager
Version 2.1.0

Release Notes
30 March 2020

Note

Before using this information and the product it supports, read the information in “Notices” on page 7.

This edition applies to Version 2.1.0. of IBM® Agile Lifecycle Manager (product number 5737-E91) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. Version 2.1.0. release notes

IBM Agile Lifecycle Manager Version 2.1.0 is available on OpenShift Container Platform (OCP) 4.3 running IBM Common Services 3.2.4. Late breaking information and known limitations are described in this document.

The IBM Agile Lifecycle Manager software has been refreshed, and the documentation has been updated.

A number of new features and enhancements have been introduced in IBM Agile Lifecycle Manager Version 2.1.0.

- **Carrier Grade Resource Manager**

  A new Carrier Grade Resource Manager is provided with IBM Agile Lifecycle Manager. The new Resource Manager requires VIM drivers to integrate with virtual infrastructure and IBM Agile Lifecycle Manager Drivers to complete transitions and operations with different scripting mechanisms. This Resource Manager supports the following external drivers and functionality:

  - **Openstack VIM Driver**

    A resource manager driver to install and uninstall resource infrastructure modeled in HEAT.
  - **Ansible Lifecycle Driver**

    A resource manager driver to execute IBM Agile Lifecycle Manager operations using Ansible playbooks.
  - **SOL003 Lifecycle Driver**

    A resource manager driver to integrate directly with SOL003 compliant VNFMs.
  - **SOL003 externalized grant logic**

    Enhancements to allow SOL003 grant requests to be handled by external logic.
  - **LMCTL enhancement for Resource Manager**

    LMCTL tool enhanced to leverage IBM Agile Lifecycle Manager features.
- **Designer UI improvements**

  Usability improvements to the IBM Agile Lifecycle Manager UI.
- **Volatile properties and reconfigure lifecycle**

  Properties marked as volatile can be changed without causing a reinstall of assembly components during upgrade. A reconfigure transition is called to effect the change without leaving 'Active' state.
- **IBM Agile Lifecycle Manager microservice anti-affinity**

  Clustered IBM Agile Lifecycle Manager microservices are deployed in different compute nodes where possible.
- **Authentication and authorization**

  IBM Agile Lifecycle Manager can be configured to perform an LDAP bind using the authenticating user.

  Support for creating customized roles.

  LDAP Directory Service groups can be associated with predefined roles.
- **Additional lifecycle state and transitions to split the existing install into infrastructure and application transitions (Create & Install)**

Chapter 2. Installing the product

To install the Red Hat OpenShift Container Platform version of IBM Agile Lifecycle Manager 2.1.0, follow the instructions in the *IBM Agile Lifecycle Manager Installation and Configuration Guide*.

Chapter 3. Fixes

The following fixes have been applied to the current version.

Fixes

- Deleting an Assembly cease relationship is not performed on a second relationship.
- Scale Out is creating incorrect number of resources with devStack.
- Assembly upgrade does not update a component's property value that is mapped from a property of another component.
- Two clustered resources in a relationship are causing extra relationships to be created.
- Assembly Instance on Main GUI screen displays the next-to-last process rather than the last process when the latest process is DeleteAssembly (that is, delete in-progress or failed).
- UI: Assembly instances are not appearing in the UI after stop/start of the Nimrod pod.
- Topology API: Get Assembly "message" is returned to user instead of "localizedMessage".
- Create Assembly creates relationship for cluster without instance id number.
- Upgrade: Migrating a cluster node to a new RM causes broken dependency, scale out and duplication of nodes.
- Referenced assembly can be uninstalled, leaving an uninstallable assembly behind.
- User is able to uninstall an assembly referenced by another assembly, causing second assembly failure for state changes.
- Create Assembly Instance is stuck in-progress when there is property mapping in both directions between assembly components.
- Relationships Ceased when none exist after a failed upgrade.
- Create Assembly stuck In Progress when property references self.
- IBM Agile Lifecycle Manager UI error: Failed to connect to service at http://galileo/api/topology/assemblies.
- IBM Agile Lifecycle Manager requires restart after Kafka restart.
- Lm-configurator setting incorrect and invalid Janus properties.
- Loading assemblies becomes slow and searching becomes incorrect with a lot of instances
- post-Inactive relationships happening in parallel/after Start transition.
- UI does not accept concatenated property values.
- Processes can become "stuck" if the process cache in Daytona is significantly smaller than the number of active processes under heavy load.
- Watchtower "expired heal actions" can leave broken resource unhealed.
- Nested relationships incorrectly being recreated on upgrade regardless of if they have changed.
- Assembly with relationship from a referenced assembly fails.
- Should block attempts to change the state of referenced assemblies.
- Fix up internal validation logic.
- Properties not updated for intermediate assemblies during reconfigure transitions.
- Unable to upgrade an assembly with nested relationships.
- Operations called on referenced assemblies are not shown in UI Execution View.
- Fix issue where a restarted process will hang indefinitely if the topology doesn't exist.
- UI: When relationship task blocks are very short the diamond blocks are rendered incorrectly.
- Kafka consumes more disk than sizing guideline states.

- On the Assembly Designer the left hand panel is by default now retracted to maximise the design canvas available.
- Change relationship color in execution view as the 'salmon' color is ambiguous (user feedback).
- Scaling a cluster from UI not working.
- Correction of cases where the UI does not receive notification of the termination of processes.
- Behaviour Testing: Improve documentation of scenarios.
- Creating an assembly instance with incorrect json structure for properties fails, but will not allow a new instance with the same name.
- Assembly using manually created descriptor can be created but fails to open, malformed descriptor.
- Talledega unable to return process query when one of the results contains a null startDate.
- UI: Unable to display Assembly descriptors with duplicate properties.
- Updates to Smoothing not working in all cases.
- Deleting a property that is in use corrupts the assembly descriptor.
- Transaction IDs passed by the browser are not being used beyond Nimrod (authentication case).
- The frontend UI allows creation of multiple properties with the same name.
- Error adding a component to a descriptor with the same name as an existing component.
- Null Upgrade introduces an error.
- LM performance degrading over time for very active assemblies.
- IBM Agile Lifecycle Manager not always calculating processes correctly when intermediate assemblies change property values.
- Prevent a DL or RM (with active deployment locations but no instances) being removed when they are in use.
- UI: Rendering issue - Screen scaling can hide UI elements.
- Talledega Process API performance issue.
- Default Vault token expiry (32 days) leaving LM pods unable to restart.
- Doki event timeout property doesn't get applied in all cases.
- Enhanced support for long property names and values in the UI.
- Incorrect RM & DL Name rule reason/implementation.
- API should allow a user to create an instance without required property set when it has a fixed value.
- Trashcan in Relationship Properties deletes the bottom row.
- Resource Manager refresh can result in an error.
- Can't change a promoted operation name.
- Change Janusgraph Elasticsearch Indexes prefixed "janusgraph" to a microservice specific prefix.
- Change collection type properties from LIST to SET in Galileo schema.
- Align Janusgraph index schema definitions in Galileo and LM Configurator.
- Topology view errors when creating an instance with a relationship that has no properties.
- Should not be able to add a relationship between parent and child.
- Designer: No Warnings for Duplicate Relationship Names.
- System allows the mapping of a root assembly property value into a read-only property of a component.
- References are not re-resolved if the search criteria are updated as part of subsequent processes.
- An assembly designer needs to be able to establish a relationship between a component of a subassembly and a reference assembly.
- Doki returns inconsistent status with multiple pods.

- IBM Agile Lifecycle Manager now supports an additional LDAP connection mechanism where password authentication takes place using LDAP bind. An LDAP manager password is still required for this bind mechanism.
- Incorrect presentation of property values and changes in Upgrade Review.

Chapter 4. Known issues and limitations

The following limitations apply to IBM Agile Lifecycle Manager Version 2.1.0.

Known issues

Table 1. Known issues ('minor' issues are excluded)
Description
Lots of tombstone logs in Cassandra debug logs.
HEAL: Intents which are configured to be triggered automatically if certain conditions are met have been observed on some occasions to stop triggering. Monitoring of a specific assembly can be lost with the result that an automatic heal intent that should be triggered is not requested. Manually requesting a heal intent on the impacted assembly should subsequently restore monitoring of the assembly and the automatic triggering of heal intents should also be restored.
State change not occurring for assembly's components, only for the component (Ansible RM).
IBM Agile Lifecycle Manager: Issue when using property values from one resource in another resource when the resources are clusters.
Operations do not work for scaling groups.
IBM Agile Lifecycle Manager GUI allows the user to delete the assembly descriptor that is in use by the active assembly instance.
Kibana links present in UI error messages are invalid. Error message in the UI may contain a `View in Kibana` hyperlink. These links are invalid as Kibana dashboards are not enabled in this release.

Limitations

The following limitations apply to this release:

- Multiple concurrent intent requests on an assembly instance are not supported.
- Requesting operations through the IBM Agile Lifecycle Manager API is not supported.
- The `ldapbind` authentication mechanism does not support :
  - BCRYPT(ed) password entries in the userPassword field.
  - isSuspended field
- The ldapbind authentication mechanism must be used with Active DIrectory.
- The IBM Agile Lifecycle Manager v2.1 - Linux 64bit English and Common Services for 3.2.4 IBM Telco Network Cloud Manager - Orchestration v1.1 tar packages cannot be downloaded using a 32bit HTTP-based download through Internet Explorer versions 7 or earlier.

NOTE : All customers should use DDP (https://www-01.ibm.com/support/us/ddhelp.html) or a web browser other than Internet Explorer for HTTP based download of packages.

Change of functionality

The LDAP configuration properties `LDAP_SEARCH_BASE` and `LDAP_SEARCH_FILTER` available in previous versions of IBM Agile Lifecycle Manager have been renamed to `LDAP_USER_SEARCH_BASE` and `LDAP_USER_SEARCH_FILTER`. If you are using a secret definition from a previous version of IBM Agile Lifecycle Manager, make sure you update the name of these properties.

Notices

This information applies to the PDF documentation set for IBM Agile Lifecycle Manager.

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