Hortonworks Data Platform

Ambari Release Notes

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The Hortonworks Data Platform, powered by Apache Hadoop, is a massively scalable and 100% open source platform for storing, processing and analyzing large volumes of data. It is designed to deal with data from many sources and formats in a very quick, easy and cost-effective manner. The Hortonworks Data Platform consists of the essential set of Apache Hadoop projects including MapReduce, Hadoop Distributed File System (HDFS), HCatalog, Pig, Hive, HBase, Zookeeper and Ambari. Hortonworks is the major contributor of code and patches to many of these projects. These projects have been integrated and tested as part of the Hortonworks Data Platform release process and installation and configuration tools have also been included.

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Table of Contents

1. Release Notes Ambari-1.5.0

RELEASE NOTES: Apache Ambari 1.5.0

In this document:

- What's Changed in Ambari-1.5.0

- Patch Information

- Improvements

- Known Issues

1.1. What's Changed in Ambari-1.5.0

The following changes were made in Ambari-1.5.0:

Apache JIRA	Support Tracking	Summary
AMBARI-5248	BUG-15668	Says Falcon in proxy user with HDP 2.0 stack
AMBARI-5238	BUG-15512	UI showing Hive configs on HBase service page
AMBARI-5225	BUG-15563	Ambari upgrade test, CentOS5 failed to add host
AMBARI-5222	BUG-15083	Assigning History Server to non-default host produces alert
AMBARI-5216	BUG-13327	stale_configs parameter works not properly after removing config grou
AMBARI-5213	BUG-15183	HCat client configs can be refreshed only on host/component level, bu
AMBARI-5210	BUG-15401	After upgrade (1.4.3 -> 1.5.0, HDP-1.3.2) unable to issue restart
AMBARI-5209	BUG-15343	MapReduce2 Client Install fails after cluster upgrade
AMBARI-5208	BUG-15426	After enable Security, during "Start All Services" "HBase Master Start" fa
AMBARI-5201	BUG-15365	Alert display randomly shows "No alerts" and then populate with alerts
AMBARI-5195	BUG-15399	Unable to start history server and job tracker after upgrade
AMBARI-5190	BUG-15393	Add host fails after upgrade from 1.4.4 to 1.5.0 as datanode install fail
AMBARI-5186	BUG-14989	On EC2, AMI for RHEL 5.7 does not start postgres on setup
AMBARI-5185	BUG-15390	Unable to delete host even when all host components are in INIT state
AMBARI-5182	BUG-15334	Retrieve registered host from API throws exception
AMBARI-5178	BUG-15158	After upgrade hdfs-site and other configs don't contain properties intro
AMBARI-5165	BUG-15259	Confirmation dialog is not closed when running service check.
AMBARI-5163	BUG-14954	Just clicking on property value entails the appearance of 'Undo' link
AMBARI-5160	BUG-13633	Error in picking up LzoCodecs in Ambari-deployed Oracle 6.3 and Cent
AMBARI-5154	BUG-15182	Upgrade from 1.4.4 to 1.5.0 failed on Oracle DB
AMBARI-5153	BUG-15227	Column length too long for Oracle
AMBARI-5149	BUG-15137	YARN Summary panel shows incorrect "Cluster Memory total"
AMBARI-5147	BUG-15051	Upgraded single-node Ambari cluster has yarn job summary entries mis
AMBARI-5146	BUG-15050	After Ambari is upgraded to 1.5.0, previous JAVA_HOME is overwritte
AMBARI-5143	BUG-15034	Should not allow decommission/recommission of slave component if m
AMBARI-5140	BUG-14217	Ganglia service does not require restart after changing configs
AMBARI-5139	BUG-15149	Error while host confirmation (bootstrap.py)
AMBARI-5136	BUG-15150	Installer - Install, Start and Test: list of hosts are disappeared after retry
AMBARI-5134	BUG-13757	Request Schedule Batch request, return code, status and message not

AMBARI-5133	BUG-14982	Maintenance Mode: On Host Details page, Start All fails
AMBARI-5132	BUG-15075	On "Host Details Page" Start All, Stop All and Restart All items in "Host
AMBARI-5130	BUG-15100	Ambari stack upgrade, cannot delete Mapreduce using UpgradeHelpe
AMBARI-5128	BUG-15037	Rolling Restart dialog shows incorrect message that slaves won't be res
AMBARI-5124	BUG-14523	Configure Components step of HA wizard got stuck forever (requires p
AMBARI-5123	BUG-15021	Background Operations window does not appear after triggering Rolli
AMBARI-5121, AMBARI-5150	BUG-14987	Ensure that the Server and Client versions match (browser caching issu
AMBARI-5113	BUG-15018	Ambari UI doesn't resume updating after logout/login
AMBARI-5112	BUG-13332	hadoop-mapreduce.jobsummary.log is empty when specified custom Y
AMBARI-5111	BUG-14824	Host confirmation failed on suse
AMBARI-5108	BUG-11648	HBaseRegionServer requires multiple retries to be stopped during reas
AMBARI-5097	BUG-14765	Retry failure after installation failure triggers start all services request
AMBARI-5094	BUG-14384	yarn.exclude FileNotFoundException during RM startup
AMBARI-5092	BUG-14894	HCat client does not require restart after changing configs
AMBARI-5090	BUG-14955	Info dialog does not need cancel button
AMBARI-5081	BUG-14878	'Check HBASE' failed after Enabling Security
AMBARI-5075	BUG-11597	Receiving incorrect confirmation prompt when trying to add compone
AMBARI-5073	BUG-14861	After upgrading Ambari from 1.4.1 to 1.5.0 - restart commands fails wi
AMBARI-5069	BUG-14883	Restart button on host details page doesn't have confirm popup
AMBARI-5066	BUG-14827	Ambari Upgrade Test, restart HBase, HBase Client Install failed
AMBARI-5065	BUG-14363	Rolling restart should also handle clients on the same machine as the r
AMBARI-5061	BUG-14843	Ambari Upgrade Test, upgrade stack command failed
AMBARI-5048	BUG-14677	Host Details page: When adding slaves, INIT state is shown as "Unknov
AMBARI-5046	BUG-14779	webHcat start fails in secure cluster
AMBARI-5040	BUG-14578	2-way auth fails when using jdk7
AMBARI-5031	BUG-13608	gmetad/gmond left in init after install
AMBARI-5024	BUG-12678	NameNode HA Wizard can get stuck on the Finalize page
AMBARI-5020	BUG-14305	Lost heartbeat on host but ganglia shows a heartbeat lost
AMBARI-5018	BUG-14617	Rolling restart should work on a Service that is in MaintMode
AMBARI-5007	BUG-14102	HDP 2.0.6 stack services should be .2.0.6, not .2.1.1
AMBARI-5006	BUG-14604	HDFS warning should not include Gluster
AMBARI-5004	BUG-14466	Many YARN configs are duplicated in MR2 configs
AMBARI-4999	BUG-14000	Ambari should allow at least 3 yarn containers on a one-node installati
AMBARI-4971	BUG-14419	Ambari Web UI broke after manually navigating to SQOOP configs pag
AMBARI-4970, AMBARI-4984	BUG-14388	Clicking on a running app on jobs page continues to stay on the same
AMBARI-4961	BUG-14307	Decommission of NodeManager failed after enabling security
AMBARI-4956	BUG-13668	Installing clients failed after adding services
AMBARI-4954	BUG-14260	After configuring NNHA, nn process alerts don't work
AMBARI-4948	BUG-14189	Override of multi-line log content property doesn't preserve newlines
AMBARI-4947	BUG-14328	Change Hive alerts to move away from Hive metadata queries to port
AMBARI-4946	BUG-14457	Installer wizard: Error handling for failed Start all services call
AMBARI-4944	BUG-12217	Logs do not give the full picture of steps executed
AMBARI-4939	BUG-13666	Ganglia alerts after adding YARN+MR2
AMBARI-4938	BUG-13507	Configs are not applied if site has empty properties
AMBARI-4929	BUG-10570	Unable to modify TaskTracker Xmx (hadoop-env.sh) via Ambari UI
AMBARI-4927	BUG-13264	Decommissioned data node allows decommissioning with NN HA enab
AMBARI-4916	BUG-14214	'Start All' button is enabled if all services are started

AMBARI-4914	BUG-13463	HBase Service Check failed after adding HBase service
AMBARI-4905	BUG-14272	Restart all on HDFS fails (Ambari DB: mysql)
AMBARI-4895	BUG-14234	License header is repeated in oozie-log4j.properties
AMBARI-4894	BUG-12988	Allow upgrade stack to take a url as parameter for a local repo change
AMBARI-4882	BUG-13637	Bulk Ops: decommissioning a slave component on multiple hosts silent
AMBARI-4878	BUG-14174	On a retry all the install commands succeed but the status of one of the
AMBARI-4877	BUG-14133	Command "sudo su -l hdfs -c 'hdfs zkfc -formatZK'" has failed during en
AMBARI-4872	BUG-14042	Nagios alerts are not shown on SUSE
AMBARI-4871	BUG-14111	All JMX metrics are not working on the UI - the metrics are not showin
AMBARI-4868	BUG-14007	HBase install with custom user name does not work properly
AMBARI-4867	BUG-14059	Add Host: deleted hosts handled as installed
AMBARI-4847	BUG-12860	Warning doesn't appear after changing Hadoop user group in Misc tab
AMBARI-4843	BUG-13828	Ambari DDL for MySQL should not create ambarirca database
AMBARI-4837	BUG-13876	Do not show Admin > Access section on non-2.1 Stack
AMBARI-4836	BUG-14039	Hbase service check fails on Security with camel hostnames
AMBARI-4835	BUG-14025	Cannot specify config properties whose names contain asterisks when
AMBARI-4823	BUG-13910	Start Services failed on Save and Apply Configuration step of Enable Se
AMBARI-4822	BUG-13594	"Host Actions" button is disabled on host detail page when heart beati
AMBARI-4795, AMBARI-4811	BUG-13872	Bulk Decom or Stop of RS does not work
AMBARI-4793	BUG-13448	Pig Service Check failed after disabling security on non preconfigured c
AMBARI-4787	BUG-13801	/var/lib/hadoop-hdfs/ location does not has +x permission for others
AMBARI-4780	BUG-12919	ambari-agent conflicts with python-jinja2
AMBARI-4778	BUG-9152	Nagios reports a Host as down when it is actually up
AMBARI-4777	BUG-13567	Restart indicators work incorrectly after adding component
AMBARI-4760	BUG-13749	Client-only services transition to the STARTED state
AMBARI-4758	BUG-13534	Failure tolerance parameter doesn't seem to work for Rolling Restarts
AMBARI-4755	BUG-13626	HIVE_AUX_JARS_PATH in hive-env.sh points to nonexistent hcatalog-c
AMBARI-4742	BUG-13297	Ambari Server logs has messages like component not found and stack
AMBARI-4731	BUG-13617	After upgrade to 1.4.4, create config group fail with error: 500(Excepti
AMBARI-4726	BUG-12959	Hbase HA testing: quick links wrong msg if no active master
AMBARI-4713	BUG-13597	Nagios and Hive fails, when password is numberonly
AMBARI-4708	BUG-13372	Actual configs not updated after restart of host component
AMBARI-4696	BUG-13524	Deprecation warnings show up in stderr because of using sets in Gangl
AMBARI-4695	BUG-13485	When in Decommissioned" state and Maint, icon shows orange, not m
AMBARI-4684	BUG-12969	Password with special symbols cause deploy fail
AMBARI-4682	BUG-13458	Customize Services page of Add Service Wizard offers to customize alr
AMBARI-4680	BUG-13506	Hive Metastore install failed during install cluster
AMBARI-4677	BUG-13456	Added property to zoo.cfg for ZooKeeper service disappears after click
AMBARI-4663	BUG-11285	Queue ACLs configuration names are wrong
AMBARI-4661	BUG-13309	Oozie service check fails in secure cluster
AMBARI-4653	BUG-7322	Prevent deleting all users
AMBARI-4651	BUG-13393	Proxy have some problems with POST,PUT requests when passing xml
AMBARI-4637	BUG-13096	The user is not always redirected to the login page when unauthentica
AMBARI-4635	BUG-12792	"SNN Process" alert displays after HA enabled successfully
AMBARI-4626	BUG-13157	"Capacity Scheduler" section in Ambari does not allow ACL value of "us
AMBARI-4621	BUG-13126	It's possible for host components to get stuck in installing state.
AMBARI-4608	BUG-13337	Medkit icons are shifted out of their places, in hosts table in Safari.

AMBARI-4600	BUG-13243	Remove –jce-policy from warning statement
AMBARI-4599	BUG-11953	Temporary directory does not get created during HBase client installat
AMBARI-4574	BUG-12328	Upon restart of ambari-server, the service status on Dashboard page re
AMBARI-4555	BUG-12127	Nagios alert for NN process fails if Port is changed
AMBARI-4554	BUG-13178	HBase service check fails on secure cluster
AMBARI-4552	BUG-13160	OOS status for component on host detail page makes button too big
AMBARI-4499	BUG-12763	Add support for marking hbase RS instances as DRAINING before deco
AMBARI-4497	BUG-11578	Hive check execute fails after upgrading from BWGA
AMBARI-4490	BUG-12238	If Ganglia is not installed, server logs hundreds of error messages
AMBARI-4487	BUG-12936	When logging certain operations, need to mask sensitive properties
AMBARI-4482	BUG-12898	We should set content type(do encoding), for data in body. URLStream
AMBARI-4472	BUG-9827	Alerts for Ganglia monitor is shown only on the host with Ganglia serv
AMBARI-4459	BUG-12038	Not creating ambarirca database in MySQL DDL
AMBARI-4445	BUG-12764	Mark decommission host components as PASSIVE
AMBARI-4435	BUG-12536	Hadoop cluster alerts are not being communicated through TVI
AMBARI-4425	BUG-12186	Add upgradestack support for MySQL
AMBARI-4408	BUG-12590	Background operations dialog in weird state after exception
AMBARI-4401	BUG-12524	Schedule_request with failing batch forever stays in state SCHEDULED
AMBARI-4394	BUG-12223	Temporal Host metrics can get overwritten.
AMBARI-4354	BUG-11650	HostCleanup should also clean /tmp/hadoop-*
AMBARI-4306	BUG-12317	Request Schedule status not updated for Point in time execution reque
AMBARI-4300	BUG-12304	Service tab: growing number of calls to update alerts
AMBARI-4265	BUG-12168	Provide way to set http proxy for Ambari Server
AMBARI-4235	BUG-11920	Unnecessary ERROR logs
AMBARI-4213	BUG-11965	Master hosts are missing in Add Service wizard
AMBARI-4196	BUG-11932	Install Wizard: Service Config Group popup text does not show the ser
AMBARI-4186	BUG-11887	Global configs are not sent to server
AMBARI-4178	BUG-11862	*-log4j configs for zookeeper, pig and mapreduce services aren't put to
AMBARI-4162	BUG-4899	Ambari trying to setup namenode dirs on nfs mounted home dirs
AMBARI-4135	BUG-11832	Review page doesn't have info about Repositories
AMBARI-4100	BUG-3994	Chart not showing complete hour
AMBARI-4098	BUG-9147	Host pagination size not persisted between login/logout
AMBARI-4080	BUG-10110	During install, if you have install failures and click "retry", should clear f
AMBARI-4076	BUG-5587	Host list doesn't show masters at top
AMBARI-4074	BUG-11657	Ambari sets mapred.healthChecker.script.path and mapred.job.tracker
AMBARI-3636	BUG-10423	DatabaseVersion might be confusing
AMBARI-3537	BUG-9690	Allow log4j properties to be applied via the API in Ambari for hadoop/
AMBARI-3529	BUG-9594	Yarn+MapReduce installing
AMBARI-3508	BUG-9936	Multiple popups on the "Install, Start, Test" step
AMBARI-3507	BUG-9937	"Assign Slaves" step. Error with installed NodeManagers
AMBARI-3400	BUG-9394	When using ambari to install a cluster: /etc/hadoop/conf/log4j.proper
AMBARI-3245	BUG-7961	Incorrect behavior of dashboard graphs
AMBARI-2649	BUG-5696	After service is deleted, BE gets into inconsistent state when the servic
AMBARI-2150	BUG-4958	Update reassign deploy interface
AMBARI-1896	BUG-4965	Disable editing Capacity Scheduler on host configs
AMBARI-1878	BUG-4914	Host overrides functionality broken in wizard Step7 controller
AMBARI-1837	BUG-4865	Few core-site properties vanished after seemingly benign reconfigurati

1.2. Patch Information

Ambari 1.5.0 is based on Apache Ambari 1.5.0 and does not require any additional Apache patches to match the Apache code base. Hortonworks' philosophy is to provide patches only when absolutely necessary to assure the interoperability of the components. Unless you are explicitly directed by Hortonworks Support to take a patch update, Ambari 1.5.0 needs to remain at this package version level to ensure a certified and supported copy of Ambari 1.5.0.

1.3. Improvements

This release of Ambari 1.5.0 includes the following new features and improvements:

• Maintenance Mode

• Rolling Restarts

• Bulk Host Operations

• Service and Component Restarts

• Decommission TaskTrackers, NodeManagers, RegionServers

• Add Service

• Customize ZooKeeper Configs

• Refresh Client Configs

• Default JDK 7

1.4. Known Issues

In this section:

• Ambari does not support running or installing stacks on Unbuntu.

• The component version information displayed by Ambari is based on the Ambari Stack definition. If you have applied patches to the Stack and to your software repository, that component version might differ from the actual version installed. There is no functional impact on Ambari if the patch versions mismatch. If you have any questions on component versions, refer to the rpm version installed on the actual host.

• **BUG-24234:** Unable to start/stop services when using Oracle database for Ambari.

Problem: If you are using Oracle for the Ambari DB, you can run into a scenario when performing a start all/stop all where Ambari becomes unresponsive and the following ORA error is printed to the ambari-server log:

```
08:54:51,320 ERROR [qtp1280560314-2070] ReadHandler:84 - Caught a runtime
 exception executing a query
Local Exception Stack:
Exception [EclipseLink-4002] (Eclipse Persistence Services - 2.4.0.
v20120608-r11652): org.eclipse.persistence.exceptions.DatabaseException
Internal Exception: java.sql.SQLSyntaxErrorException: ORA-01795: maximum
 number of expressions in a list is 1000
```

Workaround: Please upgrade to Ambari 1.6.1 and contact Hortonworks Support for a patch to apply.

- **BUG-16035:** yum Fails on Free Disk Space Check.

  Problem: If you boot your Hadoop DataNodes with/as a ramdisk, you must disable the free space check for yum before doing the install. If you do not disable the free space check, yum will fail with the following error:

```
Fail: Execution of '/usr/bin/yum -d 0 -e 0 -y install unzip' returned 1.
 Error Downloading Packages: unzip-6.0-1.el6.x86_64: Insufficient space in
 download directory /var/cache/yum/x86_64/6/base/packages
    * free    0
    * needed 149 k
```

  Workaround: To disable free space check, update the DataNode image with a directive in /etc/yum.conf:

```
diskspacecheck=0
```

  For more detailed instructions, see the Ambari Troubleshooting Guide.

- **BUG-16012:** Ambari Agents may fail to register with Ambari Server during the "Confirm Hosts" step in the Cluster Install wizard when deploying HDP using Ambari 1.4.x or later on RHEL CentOS 6.5.

  Problem: Agent logs show the following log entry, indicating the SSL connection between the Agent and Server failed during registration:

```
INFO 2014-04-02 04:25:22,669 NetUtil.py:55 - Failed to connect to
 https://{ambari-server}:8440/cert/ca due to [Errno 1] _ssl.c:492:
 error:100AE081:elliptic curve routines:EC_GROUP_new_by_curve_name:unknown
 group
```

  For more detailed information about this OpenSSL issue, see https://bugzilla.redhat.com/show_bug.cgi?id=1025598 .

  Workaround: Upgrade the RHEL OpenSSL library to version 1.0.1 build 16. For more detailed instructions, see the Ambari Troubleshooting Guide.

- **BUG-15604:** Ganglia restart fails to start Ganglia Monitor (gmond) on the first restart after upgrade to 1.5.0.

  Problem: After upgrading Ambari from version 1.4.x to 1.5.0, the configuration files for the Ganglia Monitors (gmond-s) running on Ganglia Server (gmetad) are generated when Ganglia Server is started. This causes the monitor restart to fail if Ganglia Server is started after Ganglia Monitors, which in this case is the custom restart command.

Workaround: After upgrading Ambari 1.4.x to 1.5.0, restart Ganglia Server, twice if necessary.

- **BUG-15584:** Nagios service does not appear as a service that requires a restart if you change ports on services that it monitors.

  Problem: STR (Example for MR2): Change mapreduce.jobhistory.webapp.address port. Restart all component (services) that have "restart icon". Important: Nagios does not display a "restart icon". Actual result: If Nagios did not restart, incorrect alerts would be displayed. Expected result: Nagios has "restart icon". Or, Nagios restarts automatically.

  Workaround: Restart Nagios using the Ambari Web UI if you change any ports for any services.

- **BUG-15516:** MapReduce Service check fails on HDP 1.3.3 cluster with components assigned to non-default hosts.

  Problem: When installing Ambari 1.5.0 and using HDP 1.3.3, adding a MapReduce client on a host where no HDFS Client exists may cause service check failures. This issue does not occur when upgrading to Ambari 1.5.0 on HDP 1.3.3.

  Workaround: Add HDFS_CLIENT on the host where the service check fails.

- **BUG-15195:** A significant time lag occurs before Restart Indicators disappear after restarting.

  Problem: Delays of up to a minute are possible, depending on cluster size.

  Workaround: Wait thirty seconds, then refresh your browser.

- **BUG-14475:** Adding client components using Ambari does not work in a secure cluster.

  Problem: In a RHEL 6/HDP 1.3.3/Ambari 1.4.4 secure cluster, customers cannot add webHCAT and other clients to an existing host. This prevents some features from working properly.

  Workaround: No workaround for Ambari 1.5.0. Fixed and being tested for Ambari 1.5.1 release.

- **BUG-12600:** MySQL fails to install on EC2, RHEL 6.4 AMI.

  Problem: In a RHEL 6.4/HDP 1.*/Ambari 1.5.0 cluster, MySQL start/stop can fail, preventing MySQL from installing.

  Workaround: No workaround for Ambari 1.5.0. Patch fix available at https://issues.apache.org/jira/browse/AMBARI-4503.