

Hortonworks Cybersecurity Package

Release Notes

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Hortonworks Cybersecurity Package: Release Notes

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Hortonworks Cybersecurity Package (HCP) is a modern data application based on Apache Metron, powered by Apache Hadoop, Apache Storm, and related technologies.

HCP provides a framework and tools to enable greater efficiency in Security Operation Centers (SOCs) along with better and faster threat detection in real-time at massive scale. It provides ingestion, parsing and normalization of fully enriched, contextualized data, threat intelligence feeds, triage and machine learning based detection. It also provides end user near real-time dashboards.

Based on a strong foundation in the Hortonworks Data Platform (HDP) and Hortonworks DataFlow (HDF) stacks, HCP provides an integrated advanced platform for security analytics.

Please visit the [Hortonworks Data Platform](#) page for more information on Hortonworks technology. For more information on Hortonworks services, please visit either the [Support](#) or [Training](#) page. Feel free to [Contact Us](#) directly to discuss your specific needs.



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1. Hortonworks Cybersecurity Suite 1.1.0 Release Notes

This document provides you with the latest information about the Hortonworks Cybersecurity Package (HCP) powered by Apache Metron release 1.1.0 and its product documentation.

- [Apache Component Support \[1\]](#)
- [New Features \[1\]](#)
- [Platform Support Matrices \[2\]](#)
- [HCP 1.1.0 Repositories \[3\]](#)
- [Third-Party Licenses \[4\]](#)
- [Known Differences Between HCP 1.1.0 and Apache Metron 0.3.1 \[4\]](#)
- [Documentation Errata \[8\]](#)

1.1. Apache Component Support

Component Versions

HCP is built on HDP 2.5.3 and HDF 2.1.2 . The official Apache versions of all HCP 1.1.0 components are:

- Apache Metron 0.3.1
- [HDP supported component versions](#)

All components listed are official Apache releases of the most recent stable versions available.

The Hortonworks approach is to provide patches only when necessary, to ensure the interoperability of components. Unless you are explicitly directed by Hortonworks Support to take a patch update, each of the HCP components should remain at the following package version levels, to ensure a certified and supported copy of HCP 1.1.0.



Note

For information on open source software licensing and notices, please refer to the Licenses and Notices files included with the software install package.

1.2. New Features

HCP is a cybersecurity application framework that provides the ability to parse diverse security data feeds, enrich, triage, and store the data at scale, and detect cybersecurity anomalies. HCP 1.1.0 provides the following new features:

- Support for running HCP in a Kerberos environment
- Significant improvements to Management module
 - Threat triage configuration
 - Enrichment configuration
- Support for full numeric types in Stellar .
- Support for Common Event Format (CEF) parser.
- HyperLogLogPlus (HLLP) sketches for Stellar and profiler for cardinality estimations.
Now you can answer questions like "# of distinct IPs did this user connect to?" in triage rules.
- Geo enrichment no longer relies on MySQL.
- Removed all dependencies on MySQL simplifying licensing and installation.
- Performance improvements for enrichment loading.
- Stellar transformations are now enabled in enrichment loading.
- Stability and robustness improvements to the profiler and core Stellar functions.
- Indexes can be turned on and off at the sensor granularity (for example, you can write to HDFS without writing to Elasticsearch).
- Support for Zeppelin notebooks.

1.3. Platform Support Matrices

This section outlines the platform support matrices for HCP 1.1.0.

1.3.1. Operating System Support Matrix

Unless otherwise noted, the following operating systems are validated and supported for HDP 2.5.3:

Table 1.1. HDP 2.5.3 Operating System Support Matrix

Operating System	Version
CentOS (64-bit)	CentOS 6.0 and CentOS 7.0
Red Hat (64-bit)	RHEL 7.0 [†]
Ubuntu	Ubuntu 14.04

[†]Not validated, but supported.

1.3.2. JDK Support Matrix

Unless otherwise noted, the following Java Development Kits (JDKs) are validated and supported for HDP 2.5.3:

Table 1.2. HDP 2.5.3 JDK Support Matrix

JDK	Version
Open Source	JDK8 ^{†‡}
Oracle	JDK 8

[†]Not validated, but supported.

1.4. Unsupported Features

Although the following features exist within HCP 1.1.0, Hortonworks does not currently support these specific capabilities:

- [Technical Preview Features \[3\]](#)
- [Community Features \[3\]](#)

1.4.1. Technical Preview Features

The following features are available within HCP 1.1.0 but are not ready for production deployment. Hortonworks encourages you to explore these technical preview features in non-production environments and provide feedback on your experiences through the [Hortonworks Community Forums](#).

Table 1.3. Technical Previews

Feature	Description
Stellar REPL	A REPL (Read Eval Print Loop) for the Stellar language helps in debugging, troubleshooting, and learning Stellar. Stellar transforms streaming data within Apache Storm. This REPL is intended to help facilitate creation of configurations and transformations by allowing a user to replicate data and transformations encountered in production, with rapid feedback.

1.4.2. Community Features

The following features are developed and tested by the Hortonworks community but are not officially supported by Hortonworks. These features are excluded for a variety of reasons, including insufficient reliability or incomplete test case coverage, declaration of non-production readiness by the community at large, and feature deviation from Hortonworks best practices. Do not use these features in your production environments.

Table 1.4. Community Features

Feature	Description
Vagrant-based deployment	A single-node quick deployment option intended solely for development of Metron.
Ansible installs	A multi-node deployment option via Ansible.

1.5. HCP 1.1.0 Repositories

Use the following table to identify the HCP 1.1.0 repo location for your operating system and operational objectives:

Table 1.5. HCP Repo Locations

OS	Format	Download Location
RedHat Enterprise Linux / CentOS 6 (64-bit)	Repo	http://public-repo-1.hortonworks.com/HCP/centos6/1.x/updates/1.1.0.0/hcp.repo
	HCP Management Pack	http://public-repo-1.hortonworks.com/HCP/centos6/1.x/updates/1.1.0.0/tars/metron/hcp-ambari-mpack-1.1.0.0-71.tar.gz
RedHat Enterprise Linux / CentOS 7 (64-bit)	Repo	http://public-repo-1.hortonworks.com/HCP/centos7/1.x/updates/1.1.0.0/hcp.repo
	HCP Management Pack	http://public-repo-1.hortonworks.com/HCP/centos7/1.x/updates/1.1.0.0/tars/metron/hcp-ambari-mpack-1.1.0.0-71.tar.gz
Ubuntu 14.04	Repo	http://public-repo-1.hortonworks.com/HCP/ubuntu14/1.x/updates/1.1.0.0/hcp.list
	HCP Management Pack	http://public-repo-1.hortonworks.com/HCP/ubuntu14/1.x/updates/1.1.0.0/tars/metron/hcp-ambari-mpack-1.1.0.0-71.tar.gz

1.6. Upgrading to HCP 1.1.0

For information on how to upgrade to HCP 1.1.0 from a previous release, see <http://metron.apache.org/current-book/Upgrading.html>.

1.7. Third-Party Licenses

Global: [Apache 2.0](#)

Apache Component	Subcomponents	License
Storm	Logback	EPL

1.8. Known Differences Between HCP 1.1.0 and Apache Metron 0.3.1

The following Apache bugs identify known differences between HCP 1.1.0 and Apache Metron 0.3.1.

- [METRON-839](#) RPM build should happen after archives are built (merrimanr) closes apache/incubator-metron#522
- [METRON-829](#) Use Fastcapa with Kerberos (nickwallen) closes apache/incubator-metron#514
- [METRON-831](#) Add lambda expressions and rudimentary functional programming primitives to Stellar. This closes apache/incubator-metron#517
- [METRON-817](#) Customise output file path patterns for HDFS indexing (justinleet) closes apache/incubator-metron#505
- [METRON-826](#) Ambari MPack should utilize service specific repos closes apache/incubator-metron#515
- [METRON-827](#) Fix full dev build dependency multi-threading issue with maven (mmiklavc) closes apache/incubator-metron#513
- [METRON-822](#) Improve Fastcapa Performance (nickwallen) closes apache/incubator-metron#509

- [METRON-823](#) bro-plugin-kafka/README.md has Markdown usages not compatible with site-book closes apache/incubator-metron#511
- [METRON-820](#) StellarProcessor should have a static expression cache. This closes apache/incubator-metron#508
- [METRON-808](#) Amazon EC2 deployment fails at Expanding Volume Step (KunalAggarwal via mmiklavc) closes apache/incubator-metron#496
- [METRON-196](#) Deployment Fails Without Ansible 2.0.0.2 closes apache/incubator-metron#499
- [METRON-814](#) minor tweaks in document format of Kerberos-setup.md (mattf-horton) closes apache/incubator-metron#502
- [METRON-642](#) Correct path to ES gc log file (DimDroll via mattf-horton) closes apache/incubator-metron#406
- [METRON-815](#) sensor-stubs sometimes send malformed bro timestamps (JonZeolla via jonzeolla) closes apache/incubator-metron#503
- [METRON-818](#) Ambari elasticsearch.properties template is missing topology.worker.childopts (justinleet) closes apache/incubator-metron#506
- [METRON-812](#) Make the bro-kafka plugin work with kerberos this closes apache/incubator-metron#501
- [METRON-810](#) Add Jon Zeolla to the Metron website community and project status pages (JonZeolla via jonzeolla) closes apache/incubator-metron#498
- [METRON-816](#) Add jmeyer to Contributor List (jjmeyer0) closes apache/incubator-metron#504
- [METRON-804](#) Create a document to describe kerberizing vagrant (mmiklavc) closes apache/incubator-metron#497
- [METRON-796](#) Mpack uses wrong group for owning HDFS directories (justinleet) closes apache/incubator-metron#488
- [METRON-773](#) Intermittent unit test errors in the KafkaControllerIntegrationTest this closes apache/incubator-metron#491
- [METRON-797](#): Pass security.protocol and enable auto-renew for the storm topologies closes apache/incubator-metron#495
- [METRON-797](#) Pass security.protocol and enable auto-renew for the storm topologies
- [METRON-797](#) Pass security.protocol and enable auto-renew for the storm topologies
- [METRON-793](#) Migrate to storm-kafka-client kafka spout from storm-kafka closes apache/incubator-metron#486
- [METRON-700](#) Add hadoop container to metron-docker (kylerichardson) closes apache/incubator-metron#472

- [METRON-806](#) Posix for long file names is required on all assembly plugin configurations - metron-rest edition (ottobackwards) closes apache/incubator-metron#494
- [METRON-807](#) Changed resources to use non-relative path (simonellistonball via merrimanr) closes apache/incubator-metron#493
- Add mattf to committer list on site (mattf-horton) closes apache/incubator-metron#492
- [METRON-765](#) Add GUID to messages (iraghumitra via cestella) closes apache/incubator-metron#483
- [METRON-770](#) Unable to Launch Fastcapa Test Environment (nickwallen via cestella) closes apache/incubator-metron#480
- [METRON-771](#) Stellar INDEXING_SET_BATCH incorrectly defaults batchSize to 5 closes apache/incubator-metron#485
- [METRON-792](#) Quick Dev should remove/replace RPM packages closes apache/incubator-metron#487
- [METRON-791](#) Add links to website and downloads to top level POM (justinleet) closes apache/incubator-metron#482
- [METRON-769](#) Cisco ASA parser doesn't include syslog wrapper fields (simonellistonball via kylerichardson) closes apache/incubator-metron#479
- [METRON-767](#) Clean up license (cestella via justinleet) closes apache/incubator-metron#478
- [METRON-766](#) Release 0.3.1 closes apache/incubator-metron#477
- [METRON-764](#) DST bug in metron-profiler-client Unit Tests (mattf-horton) closes apache/incubator-metron#476
- [METRON-671](#) Refactor existing Ansible deployment to use Ambari MPack (dllye via justinleet) closes apache/incubator-metron#436
- [METRON-641](#) Fix Kibana install file (DimDroll via ottobackwards) closes apache/incubator-metron#405
- [METRON-755](#) Update GitHub PR Template closes apache/incubator-metron#471
- [METRON-752](#) Fix documentation typos and MD issues closes apache/incubator-metron#470
- [METRON-745](#) Create Error Dashboards (justinleet via cestella) closes apache/incubator-metron#475
- [METRON-712](#) Separate evaluation from parsing in Stellar this closes apache/incubator-metron#473
- [METRON-758](#) HdfsServiceImplTest should sort files for list test (merrimanr via ottobackwards) closes apache/incubator-metron#474
- [METRON-694](#) Index Errors from Topologies (merrimanr) closes apache/incubator-metron#453

- [METRON-744](#) Allow Stellar functions to be loaded from HDFS this closes apache/incubator-metron#468
- [METRON-701](#) Triage Metrics Produced by the Profiler (nickwallen) closes apache/incubator-metron#449
- [METRON-503](#) Metron REST API this closes apache/incubator-metron#316
- [METRON-503](#) Metron REST API this closes apache/incubator-metron#316
- [METRON-503](#) Metron REST API this closes apache/incubator-metron#316
- [METRON-743](#) Sort the files when reading results from Pcap closes apache/incubator-metron#467
- [METRON-646](#) Add index templates to metron-docker (kylerichardson) closes apache/incubator-metron#441
- Revert "[METRON-646](#) Add index templates to metron-docker (kylerichardson via merrimanr) closes apache/incubator-metron#441"
- [METRON-686](#) Record Rule Set that Fired During Threat Triage (nickwallen) closes apache/incubator-metron#438
- [METRON-646](#) Add index templates to metron-docker (kylerichardson via merrimanr) closes apache/incubator-metron#441
- [METRON-742](#) Generated code for profile window selector DSL did not get committed as part of [METRON-690](#) closes apache/incubator-metron#466
- [METRON-741](#): Stellar Field Transformations should execute all of the transformations, not just the output closes apache/incubator-metron#465
- [METRON-740](#) Normalizing and adding log4j properties override where possible. closes apache/incubator-metron#464
- [METRON-728](#) ReaderSpliteratorTest fails randomly and extremely rarely closes apache/incubator-metron#463
- [METRON-733](#) Remove Geo database from ParserBolt (justinleet via cestella) closes apache/incubator-metron#461
- [METRON-690](#) Create a DSL-based timestamp lookup for profiler to enable sparse windows closes apache/incubator-metron#450
- [METRON-734](#) Builds failing because of MaxMind DB transitive dependency (justinleet via cestella) closes apache/incubator-metron#462
- [METRON-636](#) Capture memory and cpu details as a part of platform-info script (anandsubbu via nickwallen) closes apache/incubator-metron#400
- [METRON-157](#) Create CEF Parser (simonellistonball via kylerichardson) closes apache/incubator-metron#451
- [METRON-725](#) Javadoc is broken by the use of apiNote (justinleet) closes apache/incubator-metron#458

- [METRON-715](#): Removed MySQL from Enrichment Diagram closes apache/incubator-metron#452
- [METRON-720](#) modify generate-md.sh to re-throw errors from within 'find' closes apache/incubator-metron#455
- [METRON-730](#) Fix links to mailings list on landing Apache Metron homepage (anandsubbu via cestella) closes apache/incubator-metron#460
- [METRON-705](#) Parallelize the build in travis to the extent that is obvious closes apache/incubator-metron#444
- [METRON-724](#) Account for `in` grammar in Stellar Documentation and Unit Tests (ottobackwards) closes apache/incubator-metron#457
- [METRON-721](#) Add Github pull request template to help submitters and reviewers (ottobackwards) closes apache/incubator-metron#456
- [METRON-716](#) Add README.md to site-book (ottobackwards) closes apache/incubator-metron#454
- [METRON-708](#) Update metron documentation closes apache/incubator-metron#447
- [METRON-710](#) Rev MPack Version to 0.3.1.0 (justinleet) closes apache/incubator-metron#448
- [METRON-707](#) Correct ansible to execute threat intel bulk loading via the flat file script closes apache/incubator-metron#446
- [METRON-706](#) Add Stellar transformations and filters to enrichment and threat intel loaders (mmiklavc via cestella) closes apache/incubator-metron#445

1.9. Documentation Errata

There are no late additions or corrections to the product documentation for this release.