

# **Elastic MapReduce**

## **Release Notes and Announcements**

### **Product Documentation**



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# Release Notes and Announcements

## Release Notes

Last updated : 2024-12-03 16:49:37

### October 2024

Dynamic Name	Dynamic Description	Release Date	Documentation
Flume Monitoring	EMR on CVM enhances Flume service role process information, Dashboard monitoring, and real-time GC logs	2024-10-18	<a href="#">Flume Monitoring Metrics</a>
Event	1. EMR on CVM & EMR on TKE event records support searching by event record content 2. EMR on CVM enriches YARN application run duration, blacklisted NodeManager, and YARN insights-related events	2024-10-18	<a href="#">Cluster Event</a>
Log	EMR on CVM real-time logs support viewing GC log paths, with upgraded and optimized real-time log viewing paths;	2024-10-18	-
Monitoring Metric	1. EMR on CVM enriches node network TCP6 link state and related metrics 2. EMR on CVM enriches HDFS, Spark HistoryServer file descriptor count, and Kudu Server process memory metrics	2024-10-18	<a href="#">Node Monitoring Metrics</a>

### September 2024

Dynamic Name	Dynamic Description	Release Date	Documentation
StarRocks clusters support unified authentication	EMR on CVM adds OpenLDAP user authentication and Ranger access control for StarRocks cluster type	2024-09-30	

EMR on TKE adds StarRocks component	EMR on TKE supports StarRocks component in EMR-TKE-V1.1.0 and above versions	2024-09-21	
Auto-scaling	EMR on TKE supports auto-scaling for Trino and RSS Worker roles	2024-09-21	<a href="#">Auto-scaling</a>
Event	EMR on CVM enriches App query metadata acceleration buckets, single bucket bandwidth, request frequency, and related event items	2024-09-04	<a href="#">Cluster Event</a>
Application Insights	1. EMR on CVM enriches Spark Query Insights Overview 2. EMR on CVM enriches TrinoSQL query large table scan and other insight capabilities	2024-09-02	<a href="#">Application Insights</a>
Storage Insights	1. EMR on CVM enriches HDFS and COS integrated bucket storage with size, empty files, and hot/cold data insight feature 2. EMR on CVM adds insight feature for analyzing file tables such as small file tables, cold data tables, large file tables, and small file analysis based on Hive metadata	2024-09-02	<a href="#">Storage Insights</a>
Event	EMR on CVM enriches event item alert capabilities for the dimensions of CPU, memory, and IO resources	2024-09-02	<a href="#">Cluster Event</a>
Log	EMR on CVM supports console log delivery to CLS cloud product	2024-09-02	-

## August 2024

Dynamic Name	Dynamic Description	Release Date	Documentation
YARN Resource Scheduling	1. Capacity scheduling supports planned mode 2. Optimize the scheduler switching interaction and the Tag scheduling switch path 3. Optimize the deployment activation logic steps; clearly display pending activation quantity prompts and content comparison 4. Under the Fair Scheduling strategy, it is necessary to support the formulation of resource ratios. Tag scheduling supports displaying node information and total information within each Tag	2024-08-30	<a href="#">Yarn Resource Scheduling</a>

Managed Node	EMR on CVM introduces a new resource type: Managed Node (abbr: MNode)	2024-08-30	<a href="#">Managed Node</a>
New StarRocks version added: EMR-STARROCKS-V2.1.1	EMR on CVM adds the standard distribution of StarRocks EMR-STARROCKS-V2.1.1, supporting storage-compute separation deployment scenarios	2024-08-09	<a href="#">Overview of Component Versions</a>

## July 2024

Dynamic Name	Dynamic Description	Release Date	Documentation
EMR on CVM Manage LDAP Authentication	The console supports enabling or disabling LDAP Authentication for Hive and Impala components,	2024-07-10	<a href="#">Manage LDAP Authentication</a>
EMR on CVM Trino supports high availability	Trino HA is achieved through keepalived and High Availability Virtual IP (HAVIP).	2024-07-10	<a href="#">Introduction to Trino HA</a>
EMR on CVM Flame Graph	The node console supports querying and obtaining process flame graphs	2024-07-02	<a href="#">Node Process</a>

## June 2024

Dynamic Name	Dynamic Description	Release Date	Documentation
EMR on CVM has enhanced service monitoring	1. Rich cluster memory weighting and disk weighting usage 2. HDFS Namenode RPC, Yarn queue, StarRocks Be disk status, and related metrics	June 26, 2024	<a href="#">HDFS Monitoring Metrics</a> <a href="#">YARN Monitoring Metrics</a> <a href="#">StarRocks Monitoring</a>

			<a href="#">Metrics</a>
EMR on CVM has enriched event items	1. Added 12 alert events such as CVM node memory Oom, node disk read-only, and Ping unreachable 2. Enriched event items related to Hive SQL compilation timeout, Impala Query job Create status, etc	June 26, 2024	<a href="#">Cluster Event</a>
EMR on TKE Console features enriched	1. Supports Hive and Spark services from custom definitions when creating new clusters and adding new components 2. Rich service termination and role stopping features	2024-06-10	<a href="#">custom definitions</a> <a href="#">Service Termination</a> <a href="#">Stop Role</a>
EMR on TKE Monitoring Rich	1. Enriched RSS service monitoring Dashboard and metrics alerts 2. Enhanced cluster and some component event items, with event alerts	2024-06-10	<a href="#">RSS Monitoring Metrics</a> <a href="#">Cluster Event</a>
New EMR on TKE version	Released EMR on TKE V1.1.0, enriching the cosranger component in the new version	2024-06-10	<a href="#">Overview of Component Versions</a>

May 2024

Dynamic Name	Dynamic Description	Release Date	Documentation
New StarRocks version added: EMR-STARROCKS-V2.1.0	EMR on CVM adds the standard distribution of StarRocks EMR-STARROCKS-V2.1.0	2024-05-28	<a href="#">Overview of Component Versions</a>
EMR on TKE supports purchasing compute resources	Added linked purchase of compute resources and support for resource association with EMR on TKE clusters	2024-05-28	--
StarRocks query topology	EMR on CVM StarRocks cluster (StarRocks V3.1.8 and above) query supports DAG topology	2024-05-28	<a href="#">StarRocks Query Management</a>
Spark Query Insights	EMR on CMV adds various dimensional metrics for Spark query management and supports multiple Spark insights	2024-05-11	<a href="#">Spark Query Management</a>

Application Insights	1. EMR on CVM adds Hive overview insights, supports scheduling-query dimensional insights, and resource optimization suggestions 2. EMR on CVM opens Hive and Yarn engine insight rule templates and can allocate on demand	2024-05-11	<a href="#">Application Insights</a>
HDFS service files	EMR on CVM supports scheduled periodic export of HDFS file information	2024-05-11	<a href="#">HDFS CFS Analysis</a>
Trino Query Management	1. Trino Query supports viewing Error logs 2. Trino Query list optimized by time sorting	2024-05-11	-
Impala Query Management	EMR on CVM enriches Impala Query Management with dimensions such as total FragmentInstances, remaining FragmentInstances, and Backend count	2024-05-11	-
SR Managing a data table	EMR on CVM StarRocks Table Management - Added table schema information and support for filtering	2024-05-11	-
Hive Query Insights	EMR on CVM enhances Hive insight items with input like too many small files, data reading lag, empty input and output, etc	2024-05-11	-

## April 2024

Dynamic Name	Dynamic Description	Release Date	Documentation
New Hadoop cluster version EMR v3.6.1 (Beta)	Added new Hadoop cluster type Beta version EMR v3.6.1, supports Spark Native Engine	2024-04-28	<a href="#">Use Spark Native Engine (Beta)</a>
Auto-scaling supports cross-availability zone expansion	EMR on CVM auto-scaling supports cross-availability zone expansion for elastic nodes	April 9, 2024	<a href="#">Overview</a>
Rich Service Hosting	1. EMR on CVM adds Filebeat, Flume, Knox services and configuration hosting 2. EMR on CVM adds HBase REST Server service hosting	April 9, 2024	-



Operation Log Experience Optimization	EMR on CVM Operation Logs have added a search feature, supporting searches by time, operation, operation details, and operator, as well as filtering by operation object and security level	April 9, 2024	<a href="#">Operation Log</a>
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March 2024

Dynamic Name	Dynamic Description	Release Date	Documentation
EMR on CVM Added Service Monitoring	Added basic monitoring metrics for Goosefs service Cluster, Master, Worker	2024-03-22	<a href="#">Goosefs Monitoring Metrics</a>
EMR on CVM Rich Service Monitoring	1. Enhance monitoring metrics related to Trino's queues and queries 2. Enhance Alluxio service cluster data read/write monitoring metrics 3. Enrich HDFS active file write count, optimize NameNode RPC metrics 4. StarRocks service metadata, Query/Update, BE resources, execution thread metrics support alarm 5. Optimize Impala service scaling roles to support role monitoring metrics	2024-03-22	<a href="#">Trino Monitoring Metrics</a> <a href="#">Alluxio Monitoring Metrics</a>
Cluster Event	EMR on CVM enriches process OOMKiller kill events and supports alerts	2024-03-22	<a href="#">Cluster Event</a>
Cluster Logs	1. EMR on CVM supports Spark SQL audit log filtering and export 2. EMR on CVM versions 270&280 optimize Trino logs by splitting collection by roles	2024-03-22	<a href="#">log</a>
Interaction Optimization	EMR on CVM optimizes Hbase/Kudu data table management page interaction	2024-03-22	-
New Hadoop cluster version EMR v2.8.0	Added Hadoop 3.x standard distribution EMR v2.6.0, supports Spark 3.3.4, Trino 435, Flink 1.16.1, Iceberg 1.4.3, Hudi 0.14.1, Kyuubi 1.7.1	2024-03-08	<a href="#">Overview of Component Versions</a>

January 2024

Dynamic Name	Dynamic Description	Release Date	Documentation
Enriched Trino service applications	EMR on CVM adds multidimensional query management feature for Trino	January 30, 2024	<a href="#">Trino Query Management</a>
Enriched Yarn Insights	Yarn enriches insights on abnormal Stage execution time and Resource expenditure anomalies for same-origin scheduling	January 30, 2024	<a href="#">Yarn Job Query</a>
Enriched StarRocks Service Application	1. New database table daily statistics, multi-dimensional list of library table partitions 2. Added Service Export Task Management	January 30, 2024	<a href="#">StarRocks Database Table Analysis</a> <a href="#">StarRocks Import Task Management</a>
Event items enriched	EMR on CVM enriches HDFS small file proportion event items	January 30, 2024	<a href="#">Cluster Event</a>
HDFS File Analysis Optimization	HDFS File Analysis Scope Displayed According to Configured Path Range	January 30, 2024	<a href="#">HDFS CFS Analysis</a>
Impala Enriches Hot Tables	Impala Query Management Supports Top Hot Data Tables and Hot Data Table Trend Views	January 30, 2024	<a href="#">Impala Query Management</a>
Scenario-Based Configuration Parameter Tuning and Specification Recommendation Optimization	EMR on CVM Hadoop cluster types for different application scenarios. Based on the selected components and the number of components, recommend reasonable machine types, specifications, and configuration optimization tuning.	January 17, 2024	-
Task Center Experience Optimization	The Task Center offers rich search criteria, supports node-level instruction aggregation display, and real-time task progress refreshes consistent with cluster status.	January 17, 2024	<a href="#">Task Center</a>
Scale operations support task process concurrency	EMR on CVM: When scaling out or in the cluster, tasks can be performed on other nodes that are not the target of the current operation. For example, when scaling out, it is possible to scale in or restart services on another node.	January 17, 2024	-
Auto-scaling supports scaling group types	EMR on CVM auto-scaling supports new types of scaling groups. Scaling groups support setting scaling policies at the queue level.	January 17, 2024	<a href="#">Scaling Group Usage Configuration</a>

Support deployment from service self Definition	In the default EMR on CVM Hadoop scenario, some optional components support Uninstall in the console after deployment. When adding new components, service self Definition deployment is supported, and role-level addition and Uninstall are also supported.	January 17, 2024	<a href="#">Adding a component</a> <a href="#">Role Management</a>
Export software configuration supports dimension and scope selection	EMR on CVM Export software configuration supports dimension and scope selection, enhancing export file use cases.	January 17, 2024	<a href="#">Export Software Configuration</a>
Operation Log Optimization	EMR on CVM enhances operation log details, enriching content to help users quickly troubleshoot and locate issues.	January 17, 2024	<a href="#">Operation Log</a>
Supports mounting CBS	The EMR on CVM console supports the ability to attach external cloud disks and initialize disks.	January 17, 2024	<a href="#">Mount CBS</a>
Console Node Ops	EMR on CVM node processes support viewing real-time logs and obtaining Thread Dump information.	January 17, 2024	<a href="#">Node Process</a>
StarRocks Metrics	StarRocks service enriches 34 related metrics including BE primary key, Meta, etc., and 2 FE metrics, and corrects the unit of existing GC time metric to ms (original unit: seconds)	January 17, 2024	<a href="#">StarRocks Monitoring Metrics</a>
HBase Thrift Metrics	EMR on CVM adds HBase Thrift role monitoring, enriching 31 related metrics such as JVM and JMX	January 17, 2024	<a href="#">HBase Monitoring Metrics</a>
Overview - Node Comparison Optimization	EMR on CVM Cluster Overview Node Monitoring Comparison feature upgrade. Added node type options and support for comparing up to 20 nodes at once	January 17, 2024	<a href="#">Cluster Overview</a>
Event items enriched	Added event item for the number of currently unhealthy NodeManagers in YARN	January 17, 2024	<a href="#">Cluster Event</a>
Other	TCOP > EMR (Dynamic) metric alarms enhanced for services such as ALLUXIO, ZEPPELIN, KUDU, DORIS, KYLIN, STORM, OOOZIE	January 17, 2024	-

## November 2023

Dynamic Name	Dynamic Description	Release Date	Documentation
TKE Version Release	Release EMR-TKE V1.0.1 version, EMR-TKE-DLC V1.0.0 version	November 17, 2023	<a href="#">Overview of Component Versions</a>
TKE Available regions	EMR on TKE launched in Singapore	November 17, 2023	-
TKE POD Operations and Maintenance enhanced	EMR on TKE POD Rebuild feature allows configuration item updates and supports POD Destruction	November 17, 2023	<a href="#">Rebuild</a>
Configuration association features are rich	During the EMR on CVM scale-out of TKE nodes, custom parameters support tolerance EMR on TKE HiveMetaStore supports DLC address association	November 17, 2023	-
Meta Database Interface upgrade	EMR on TKE & CVM optimizes Hive Metastore interface, only loading the deployed MetaDB's CDB	November 17, 2023	-
TKE supports Task Center	EMR on TKE adds Cluster Content Task Center feature	November 17, 2023	-
Adjust accessing COS	EMR on TKE accesses COS with read/write permissions using "service-related roles"	November 17, 2023	-

## October 2023

Dynamic Name	Dynamic Description	Release Date	Documentation
Kyuubi Service Application enriched	EMR on CVM adds Kyuubi Query Management and Query Details	2023-10-30	<a href="#">Kyuubi Query Management</a>
Hive Service Application enriched	EMR on CVM Hive Query supports multiple insights, enriching query tables and scanning related information dimensions	2023-10-30	<a href="#">Hive Query Management</a>

	EMR on CVM Hive Query Management adds new insight item Perspective Insight Overview feature, observing distribution trends and insight item list		
Role Logs enriched	EMR on CVM enriches Yarn Service Timeline Server Logs	2023-10-13	<a href="#">log</a>
Rich Service Metrics	EMR on CVM enriches Node Single Disk Metrics, OpenLdap Heartbeat, Yarn Queue Memory Usage Rate, Kyuubi, Hbase RS, Timeline Server, and 48 other monitoring indicators	2023-10-13	<a href="#">Node Monitoring Metrics</a>
Event items enriched	EMR on CVM adds Yarn RM without Active State, HDFS NN no Checkpoint for an extended period, Yarn Application Job Running Failure Event Item, and fixes Scale-in Node False Alarm in Process Missing Events	2023-10-13	<a href="#">Cluster Event</a>
Other	EMR reports TCOP Monitoring Metrics Interface DescribeEMRInstances to support Resource-Level Authentication	2023-10-13	-

## September 2023

Dynamic Name	Dynamic Description	Release Date	Documentation
StarRocks Cluster Type adds Product Version StarRocks-V2.0.0	Added Product Version StarRocks-V2.0.0, corresponding to Community StarRocks Version 3.1.2	September 21, 2023	<a href="#">Overview of Component Versions</a>
StarRocks Query Management	StarRocks Cluster Type V1.4.0 and above versions support Query Management feature in the console	September 12, 2023	<a href="#">StarRocks Query Management</a>

## August 2023

Dynamic Name	Dynamic Description	Release Date	Documentation
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EMR-V3.5.0 Service Role Audit Logs Enhanced	EMR-V3.5.0 enhances HDFS, YARN, Hbase, Zookeeper Service Role Audit Logs	August 24, 2023	<a href="#">log</a>
Event items enriched	EMR on CVM adds HMaster Primary-Standby Switch, Zookeeper Leader Switching Event Item	August 24, 2023	<a href="#">Cluster Event</a>
Added Hadoop Cluster Version EMR v3.6.0	Added Hadoop 3.x Standard Release EMR v3.6.0, supporting Spark 3.3.2, Trino 414, Flink 1.16.1, Iceberg 1.1.0, Hudi 0.13.0, Kyuubi 1.7.0	August 8, 2023	<a href="#">Overview of Component Versions</a>

## July 2023

Dynamic Name	Dynamic Description	Release Date	Documentation
Auto Scaling supports Hybrid Scaling	Auto Scaling supports hybrid execution of time policy and load policy. The load policy supports triggering scaling rules when multiple metrics are met	July 13, 2023	<a href="#">Auto-scaling</a>
Release now	Clusters or cloud data disks in isolation status support one-click release	July 13, 2023	<a href="#">Release now</a>
Log feature enhanced	EMR on CVM log feature upgrade, supports Filter Logs and Source Log Export and Download. EMR on CVM Console Logs add Kyuubi, Hue, Trino, SR	July 13, 2023	<a href="#">log</a>
Rich Service Metrics	Added Kyuubi monitoring indicators, enriched NameNode NameService dimensional monitoring indicators, PrestoSQL Query related monitoring indicators, Hbase RegionServer enriched monitoring indicators	July 13, 2023	<a href="#">Kyuubi Monitoring Metrics</a>
Enhanced API interface	Added DescribeHiveQueries, DescribeYarnApplications, DescribeImpalaQueries query interfaces	July 13, 2023	-

## June 2023

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Dynamic Name	Dynamic Description	Release Date	Documentation
Cross-Availability Zone Deployment enabled	Create Cluster Multi-AZ deployment feature available for use	2023-06-30	<a href="#">Multi-AZ Cluster Deployment</a> <a href="#">Multi-AZ Service High Availability</a>
User Management feature optimized	After adding a new user through the Console User Management feature, it will be automatically synchronized to Ranger	2023-06-30	<a href="#">User Management</a>
Hive Query Management enriched	Query List enriched with Execution Cycle and 10+ Dimensional Indicator Information New Query Overview with Multi-dimensional Metrics Distribution View Abnormal Hive Queries provide the capability to view execution logs online	2023-06-30	<a href="#">Hive Query Management</a>
EMR on TKE Public Beta	Support the simple and fast deployment of open-source big data clusters using Tencent Cloud TKE (TKE) as the resource base, improving off-peak resource utilization rate and achieving cost optimization	2023-06-25	<a href="#">EMR on TKE Introduction</a>

## May 2023

Update	Description	Release Date	Documentation
Added support for federation monitoring.	Query of monitoring metrics for the Router component and alerts are supported for HDFS federations.	2023-05-18	<a href="#">HDFS Monitoring Metrics</a>
Added support for scaling based on the load of subqueues.	Auto-scaling based on the load of subqueues is supported.	2023-05-18	<a href="#">Custom Scaling Configuration</a>

## April 2023

Update	Description	Release	Documentation
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		Date	
Released the StarRocks cluster version: StarRocks v1.4.0.	The StarRocks cluster version StarRocks v1.4.0 is released, corresponding to the open-source StarRocks v2.5.3.	2023-04-18	Product Releases and Component Versions

## March 2023

Update	Description	Release Date	Documentation
Added table analysis in Kudu.	Supported viewing information by table, Tablet, and TabletServer. Supported analyzing Tablet-level read and write QPS, storage size and other information.	2023-03-24	<a href="#">Kudu Table Analysis</a>
Added statistics by Region in HBase.	Added Region-level read QPS, write QPS and other information to help locate hot spots.	2023-03-24	<a href="#">HBase Table Analysis</a>
Added more monitoring metrics and alarms.	For HiveMetaStore, more than 14 monitoring metrics and alarms (including the number of opened and connected processes, Get Table requests, and currently active requests) were added. For HiveServer2, more than 20 monitoring metrics and alarms (including the current requests and query submission time/average execution time) were added. For YARN, alarms for the queue CPU and memory usage in percentages were added.	2023-03-24	<a href="#">Hive Monitoring Metrics</a> <a href="#">YARN Monitoring Metrics</a>
Added more health status events.	Two events were added: exception in service role health status and timeout of service role health status.	2023-03-24	<a href="#">Cluster Events</a>
Optimized log accuracy.	The log search accuracy was optimized, with search by keyword and by phrase supported.	2023-03-24	<a href="#">Log Search</a>
Released the Kafka cluster version: Kafka v2.0.0.	Released the Kafka cluster version Kafka v2.0.0, corresponding to the open-source Kafka v2.4.1.	2023-03-23	<a href="#">Versions of Components</a>
Released the StarRocks cluster version: StarRocks v1.3.0.	Released the StarRocks cluster version StarRocks v1.3.0, corresponding to the open-source Kafka v2.4.3.	2023-03-10	<a href="#">Versions of Components</a>



Released the Hadoop cluster version: JDK11-Beta-based EMR v4.0.0.	Released the Hadoop cluster version JDK11-Beta-based EMR v4.0.0, with all of its components running in the JDK 11 environment.	2023-03-10	<a href="#">Versions of Components</a>
Suspended the provision of the container-based EMR service.	The container-based EMR service was unavailable for purchase for feature update in progress.	2023-03-10	<a href="#">Overview</a>

## February 2023

Update	Description	Release Date	Documentation
Added more metrics for job query in YARN.	Statistics of jobs submitted by users, resources consumed, and other information were added for job query in YARN.	2023-02-09	<a href="#">YARN Job Query</a>
Added table analysis in Hive (based on Hive MetaStore).	Supported viewing global metrics at key dimensions such as total tables, total storage size, table count by access time, and trends. Supported viewing multi-dimensional data of tables and their partitions.	2023-02-09	<a href="#">Hive Table Analysis</a>
Added the file-level analysis feature in HDFS.	Supported viewing HDFS data distribution at key dimensions such as file count and file size. Supported viewing and downloading the lists of top large files and top small files.	2023-02-09	<a href="#">HDFS File Storage Analysis</a>

## January 2023

Update	Description	Release Date	Documentation
Supported automatic node replacement	Task and router nodes can be monitored, and abnormal nodes can be replaced automatically, mitigating the risk of service unavailability due to node exceptions.	2023-01-16	
Supported local disk	Local disk replacement events can be automatically monitored. After disk replacement, you can initialize the new	2023-01-16	

repair	disk in the console on your own.		
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## December 2022

Update	Description	Release Date	Documentation
Supported Java-GC online analysis.	Java-GC online log analysis is supported to help you troubleshoot process exceptions due to GC, collect and record GC logs in real time, and analyze the logs.	2022-12-06	
Supported role-level monitoring of Kafka.	Kafka adds more than 70 role-level monitoring metrics and supports configuring alarms for core monitoring metrics.	2022-12-06	
Added more default event-related metrics.	More event-related metrics are added, such as the UTC time and NTP time difference of the server, Kerberos response time, number of HDFS MissingBlocks, and safe mode for the HDFS NameNode.	2022-12-06	<a href="#">Cluster Event</a>
Added more default alarm policies for Kudu.	Kudu adds more alarm policies, such as the number of teservers, number of failed data directories, and number of full data directories.	2022-12-06	-
Upgraded the configuration management feature.	The configuration status is added, and you can view the details of expired configuration and failed configuration. More configuration files, configuration items, configuration item descriptions, and configuration filters are added.	2022-12-06	<a href="#">Configuration Management</a>
Upgraded the YARN resource scheduling feature.	Label-based scheduling, queue deletion, and scheduling history viewing are supported.	2022-12-06	Capacity Scheduler
Added client management.	The client management entry is added, and you can view the client information.	2022-12-06	
Supported cloud disk adjustment.	You can adjust the cloud data disk models on nodes and expand and mount disks in the EMR console. Heterogeneous capacity is supported by the heterogeneous capabilities of cloud disks.	2022-12-06	
Supported batch	You can batch enable/disable automatic renewal for nodes in the EMR console.	2022-12-06	

configuration of automatic renewal			
Supported batch configuration adjustment.	The configurations of nodes in the same billing mode and the same region can be batch adjusted.	2022-12-06	<a href="#">Adjusting Configuration</a>

## November 2022

Update	Description	Release Date	Documentation
Added more StarRocks monitoring metrics.	More basic monitoring metrics are added for various StarRocks roles.	2022-11-03	
Supported Remote Shuffle Service (RSS) clusters for container-based EMR.	Container-based EMR supports RSS deployment in EKS. Spark clusters can be associated with RSS clusters.	2022-11-01	Overview
Supported managed scaling for automatic scaling.	The managed scaling feature continuously monitors the load system of the YARN cluster and automatically adds or removes compute nodes.	2022-11-01	

## October 2022

Update	Description	Release Date	Documentation
Released a Hadoop cluster version of EMR v3.5.0	The Hadoop cluster version of EMR v3.5.0 is released to support Hive v3.1.3, Spark v3.2.2, HBase v2.4.5, Flink v1.14.5, Trino v389, Iceberg v0.13.1, Delta Lake v2.0.0, Hudi v0.12.0, Zeppelin v0.10.1, Superset v1.5.1, and Ranger v2.3.0.	2022-10-27	<a href="#">Component Version</a>

## September 2022

Update	Description	Release Date	Documentation
Supported Impala percentile distribution statistics.	<p>Impala query supports statistics collection for execution status distribution and multidimensional percentile distribution.</p> <p>More metrics are added for Impala queries, such as total/HDFS/Kudu scanned rows, memory peak, read/sent bytes, and internal total scanned/sent bytes.</p> <p>Overview and structured profile features are provided for queries that take more than 3 seconds to execute.</p>	2022-09-21	<a href="#">Impala Query Management</a>
Added more alarm policies for monitoring events.	<p>100+ monitoring metrics are added for Druid in the "Elastic MapReduce (dynamic)" category in CM, for which dynamic alarm policies can be configured.</p> <p>20 default monitoring metrics for eight services are added for default alarm policies.</p> <p>Four Impala query events support alarm configuration through EventBridge.</p>	2022-09-21	-
Launched application comparison and application insights features for YARN job management.	<p>You can view task information for TEZ jobs.</p> <p>Application-level insights and comparison are supported for Tez/Spark/MapReduce jobs.</p> <p>Task-level host monitoring metric comparison is supported for Tez/MapReduce jobs.</p> <p>The experience to use YARN task information and filter task time is optimized.</p>	2022-09-09	<a href="#">YARN Job Query</a>

## August 2022

Update	Description	Release Date	Documentation
Released a StarRocks cluster version: StarRocks v1.1.0.	Added support for StarRocks v2.2.2.	2022-08-04	<a href="#">Component Version</a>
Released a Druid cluster version: Druid v1.1.0.	Added support for Druid v0.23.0.	2022-08-04	<a href="#">Component Version</a>

## July 2022

Update	Description	Release Date	Documentation
Launched the overview page in the console.	The cluster overview page displays various information, such as cluster status, health status of running services, and event statistics.	2022-07-22	-
Upgraded the cluster overview feature.	The cluster directory navigation is optimized and upgraded. The health status information of deployed services is refined to display real-time statistics of cluster events.	2022-07-22	<a href="#">Cluster Overview</a>
Added new Impala query dimension and inspection items.	Dimensions of session ID, coordinator, and single-point memory peak are added. Four inspection items are added for Impala: query timeouts, total query failures, total query commits, and query execution failure rate.	2022-07-22	<a href="#">Impala Query Management</a>
Added the Impala daemon role.	Over 70 visual Impala daemon metrics are added, which can trigger alarms in CM.	2022-07-22	<a href="#">Impala Monitoring Metrics</a>
Added new application APIs.	The API for collecting YARN application queue statistics is added.	2022-07-22	<a href="#">Query Application Statistics</a>
Released a Hadoop cluster version—EMR v2.7.0.	Added support for Hive 2.3.9, Spark 3.2.1, HBase 2.4.5, Flink 1.14.3, Trino 385, ZooKeeper 3.6.3, Iceberg 0.13.0, Hudi 0.11.0, Alluxio 2.8.0, Zeppelin 0.10.1, Superset 1.4.1, and Ranger 2.1.0.	2022-07-18	<a href="#">Component Version</a>
Improved the availability of the automatic scaling feature.	Scale-out rules support the hybrid deployment of multiple resource specifications as well as pay-as-you-go/spot instances.	2022-07-07	<a href="#">Auto Scaling</a>
Added support for the RIT fixing tool for HBase.	Regions in the RIT status can be fixed.	2022-07-07	HBase RIT Fixing
Started the open beta test for container-based EMR clusters.	Container-based EMR clusters become available in Beijing, Shanghai, and Guangzhou regions.	2022-07-07	<a href="#">Container-Based EMR</a>

## June 2022

Update	Description	Release Date	Documentation
Optimized the configuration management feature.	Configuration management is upgraded to support configuration filtering, categorization, and comparison. The delivery priority rules for configurations at different levels are optimized to support delivery at the minimum level first. A configuration group can be specified for the selected components.	2022-06-20	<a href="#">Configuration ManagementCluster Scale-Out</a>
Added support for Hive query management.	The Hive service supports query management.	2022-06-07	<a href="#">Hive Query Management</a>
Optimized the YARN job query.	YARN job query supports displaying task information and querying task logs.	2022-06-07	<a href="#">YARN Job Query</a>
Connected to Pricing Center.	The pricing of EMR is connected to the Pricing Center, where you can query EMR node fees.	2022-06-07	<a href="#">Pricing</a>

## May 2022

Update	Description	Release Date	Documentation
Optimized the scaling feature.	New subnets can be added to expand cluster node capacity. The Kyuubi service supports scaling.	2022-05-17	<a href="#">Cluster Scale-Out</a>
Enhanced role management and user management.	User management supports batch import and export of users through APIs. Resource management supports displaying client information. The `DescribeClusterPhysicalMetaInfo` API is added for resource-level authentication.	2022-05-17	-

## April 2022

Update	Description	Release Date	Documentation
Released the EMR v3.4.0 for the Hadoop cluster.	Added support for Spark 3.2.1, Trino 372, Flink 1.14.3, HBase 2.4.5, ZooKeeper 3.6.3, Impala 4.0.0, Zeppelin 0.10.1, Alluxio 2.8.0, Hudi 0.10.1, Iceberg 0.13.1, and GooseFS 1.2.0. Renamed PrestoSQL as Trino in the new version and added support for Ranger. Monitoring metric alarms need to be configured according to Trino in the new version.	2022-04-22	<a href="#">Component Version</a> <a href="#">Trino Monitoring Metrics</a>
Enriched monitoring.	Launched the new version of the interactive features of the event list. Added event-related metrics such as node single-disk inode utilization, single-disk space utilization, single-disk IO utilization, all HBase HMaster standby, and all HDFS NameNodes standby. Added monitoring metrics of the HDFS-Data node, including the block count, used disk space, available disk space, and reserved disk space.	2022-04-22	<a href="#">Cluster Event</a> <a href="#">HDFS Monitoring Metrics</a>
Added support for container-based EMR clusters.	Added support for Spark deployment based on EKS in Beijing, Shanghai, Guangzhou, and Nanjing regions.	2022-04-12	<a href="#">Overview</a>

## March 2022

Update	Description	Release Date	Documentation
Added the StarRocks cluster type.	Added the StarRocks cluster type and integrated open-source StarRocks.	2022-03-11	<a href="#">StarRocks Development Guide</a>
Added support for adding nodes without assigning ApplicationMasters by default.	Added support for adding nodes without assigning ApplicationMasters by default, ensuring that the running ApplicationMaster will not be terminated and the job can be performed normally.	2022-03-08	<a href="#">Automatically Adding Task Nodes Without Assigning ApplicationMasters</a>
Added load-based scaling metrics.	Added load-based scaling metrics such as ContainerPending, AppPending, and AppRunning.	2022-03-08	<a href="#">Auto Scaling</a>

Added support for setting node labels for added host resources.	Added support for setting YARN node labels for added host resources to increase the resource utilization efficiency.	2022-03-08	-
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## January 2022

Update	Description	Release Date	Documentation
Released a Doris cluster version—Doris v1.2.0.	Released Doris v0.15.	2022-01-21	<a href="#">Component Version</a>
Added support for sharing component configurations.	Added support for sharing the components of an existing cluster with other clusters without deploying such components again. This makes it easier to manage multiple clusters with the same component configurations.	January 14, 2022	<a href="#">Component Configuration Sharing</a>
Added monitoring metrics.	Added Kylin, Zeppelin, Oozie, Storm, Livy, and Kyuubi monitoring metrics.Added new CosRanger monitoring metrics.	-	<a href="#">Kylin Monitoring</a> <a href="#">MetricsZeppelin Monitoring</a> <a href="#">MetricsOozie Monitoring</a> <a href="#">MetricsStorm Monitoring</a> <a href="#">MetricsLivy Monitoring</a> <a href="#">MetricsKyuubi Monitoring</a> <a href="#">MetricsCosRanger Monitoring</a> <a href="#">Metrics</a>
Optimized log search.	Added support for more components and global regions and optimized log search interactions.	-	<a href="#">Log Search</a>

## December 2021

Update	Description	Release Date	Documentation
Added four use cases	Added the ZooKeeper, HBase, Presto, and Kudu use cases for the Hadoop cluster type to help you quickly create a cluster	2021-12-17	<a href="#">Cluster Types</a>



for the Hadoop cluster type.	based on your business scenario.		
Launched a new purchase page.	Optimized the existing cluster creation process to support the placement group node dimension for unified resource management.	2021-12-17	<a href="#">Creating EMR Cluster</a>
Added support for system disk selection.	Added support for selecting the system disk type and size as needed.	2021-12-17	-
Optimized the task center.	Added support for viewing the details of all tasks of the current cluster inside the cluster, and optimized the interaction path of the task center for easier viewing and use.	2021-12-17	-
Launched diversified component operation features.	Added support for visually setting instruction-level operations of components such as HDFS and YARN.	2021-12-07	<a href="#">Service Operation</a>
Added monitoring metrics.	Added Doris monitoring metrics.Adjusted the original HBase table load to HBase table-level monitoring.	2021-12-07	<a href="#">Doris Monitoring MetricsHBase Table-Level Monitoring</a>
Upgraded the operating system.	Upgraded the operating systems of all EMR versions of the Hadoop type to TencentOS Server to provide a more stable, secure, and high-performance cloud native runtime environment.If you encounter any security issues related to the operating system of an existing cluster, contact us for assistance.	2021-12-03	Product Overview of TencentOS Server

## September 2021

Update	Description	Release Date	Documentation
Released a	Added support for HBase v2.3.5, Phoenix v5.1.2,	September	<a href="#">Component Version</a>

Hadoop cluster version—EMR v3.3.0.	Kudu v1.15.0, Hue v4.10.0, Hudi v0.8.0, Tez v0.10.1, Livy v0.8.0, Ganglia v3.7.2, Kyuubi v1.1.0, and LDAP v2.4.44.	28, 2021	
Added monitoring metrics.	Enriched Alluxio service monitoring metrics and added COSRanger monitoring metrics.	September 15, 2021	<a href="#">Alluxio Monitoring Metrics</a> <a href="#">COSRanger Monitoring Metrics</a>
Connected to Cloud Monitor's default alarms	Cloud Monitor supports default alarm policies for Elastic MapReduce metrics/events.	September 15, 2021	-

## August 2021

Update	Description	Release Date	Documentation
Added support for YARN resource scheduling.	Added support for UI-based YARN resource scheduling configuration.	August 31, 2021	<a href="#">YARN Resource Scheduling</a>
Added support for user management.	Added support for visually managing Kerberos and Ranger users.	August 31, 2021	<a href="#">Managing Users</a>

## July 2021

Update	Description	Release Date	Documentation
Released a Hadoop cluster version—EMR v2.6.0.	Added support for Spark v3.0.2, Impala v3.4.0, GooseFS v1.0.0, OpenLDAP v2.4.44, Kyuubi v1.1.0, etc.	July 15, 2021	<a href="#">Component Version</a>

## June 2021

Update	Description	Release Date	Documentation
Added support for	Added detailed metric statistics for YARN jobs.	June	<a href="#">YARN Job</a>

YARN job query.		24, 2021	<a href="#">Query</a>
Added support for Impala query management.	Added detailed metric statistics for Impala query jobs.	June 24, 2021	<a href="#">Impala Query Management</a>
Added support for automatic scaling for the spot instance mode.	Added support for automatically adding compute nodes of the spot instance mode.	June 3, 2021	<a href="#">Auto Scaling</a>
Added support for graceful scale-in.	When a scale-in action is triggered, nodes that are executing tasks will not be released immediately. Instead, they will be released after completing the tasks.	June 3, 2021	<a href="#">Graceful Scale-In</a>
Added support for integrating Knox with Tez.	Added support for viewing Tez tasks via UI.	June 3, 2021	<a href="#">Integrating Knox with Tez</a>
Added availability zones.	Added support for Singapore Zone 3 and Tokyo Zone 2.	June 3, 2021	-
Added regions.	Added support for regions such as Frankfurt, Virginia, Bangkok, Mumbai, Tokyo, and Seoul.	June 3, 2021	-

## May 2021

Update	Description	Release Date	Documentation
Released a Kafka cluster version—Kafka v1.0.0.	Added support for Kafka v1.1.1, KafkaManager v2.0.0.2, Knox v1.2.0, and ZooKeeper v3.6.1.	May 13, 2021	<a href="#">Kafka Development Guide</a>
Released a Doris cluster version—Doris v1.0.0.	Added support for Doris v0.13.0 and Knox v1.2.0.	May 13, 2021	<a href="#">Doris Development Guide</a>

## April 2021

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Update	Description	Release Date	Documentation
Released a Hadoop cluster version—EMR v3.2.0.	Added support for Hadoop v3.2.2, Spark v3.0.2, Presto v350, Flink v1.12.1, Alluxio v2.5.0, Ranger v2.1.0, Iceberg v0.11.0, and Hudi v0.7.0.	April 30, 2021	<a href="#">Component Version</a>
Added the <b>**Start/Stop Services**</b> feature.	Added support for starting or stopping all services on a node.	April 27, 2021	<a href="#">Starting/Stopping Services</a>
Released a Hadoop cluster version—EMR v2.5.1.	Added support for Alluxio v2.5.0 and Hudi v0.5.1. Alluxio supports COS Transparent-URI.	April 10, 2021	<a href="#">Support for COS Transparent-URI</a>

## March 2021

Update	Description	Release Date	Documentation
Supported cluster restoration	You can renew monthly subscribed clusters in isolated status to restore them.	2021-03-17	

## February 2021

Update	Description	Release Date	Documentation
Released the EMR service in new regions on Tencent Cloud Chinese.	Added support for the Bangkok, Seoul, Tokyo, and Virginia regions on Tencent Cloud Chinese.	February 2, 2021	-

## January 2021

Update	Description	Release Date	Documentation

Added the cluster script feature.	Added support for running a specified script on multiple nodes at a time for higher efficiency.	January 26, 2021	<a href="#">Cluster Scripts</a>
Added support for cross-model configuration change.	You can select other models to change the node configuration when the current model is sold out.	January 26, 2021	<a href="#">Adjusting Configuration</a>
Added the auto scaling feature.	The auto scaling feature automatically adds or removes task nodes, helping you save costs while meeting the requirement for cluster computing power.	January 26, 2021	<a href="#">Auto Scaling</a>
Added monitoring metrics.	Added new monitoring metrics for the HDFS, Yarn, HBase, Hive, and Druid services. Added support for monitoring on the Kudu and Alluxio services.	January 13, 2021	<a href="#">Node Monitoring Metrics</a>
Released the EMR service in Singapore on the international version.	Added support for Singapore Zone 1 and Singapore Zone 2 on the international version.	January 13, 2021	-

## December 2020

Update	Description	Release Date	Documentation
Released a Hadoop cluster version—EMR v3.1.0.	Added support for Impala v3.4.0, Flink v1.10.0, HBase v2.3.3, Phoenix v5.0.0, Alluxio v2.3.0, Kudu v1.13.0, and ZooKeeper v3.6.1.	December 14, 2020	<a href="#">Component Version</a>

## November 2020

Update	Description	Release Date	Documentation
Released the EMR TianQiong edition.	Added support for Spark materialized views.	November 27, 2020	<a href="#">Component Version</a> <a href="#">EMR TianQiong Introduction</a>
Optimized	Added support for setting alarms for disk	November	<a href="#">Dashboard</a>

monitoring and alarming.	monitoring metrics in Cloud Monitor (CM). Added support for customizing EMR monitoring dashboard in CM dashboard. Added support for subscribing to EMR event monitoring alarms in CM.	20, 2020	
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## October 2020

Update	Description	Release Date	Documentation
Added support for Cloud Object Storage (COS) password-free access.	Added support for authorizing access to COS through roles. Authorized users do not need to enter an authorization key and private key.	2020-10-26	-
Added new service inspection items to the inspection system.	Added the HDFS, Yarn, HBase, Hive, and ZooKeeper service inspection items, enhancing the health check of metrics.	2020-10-13	<a href="#">Cluster Inspection</a>
Added support for customizing event policies.	Added support for customizing event policies so you can identify cluster events more efficiently.	2020-10-13	<a href="#">Cluster Event</a>

## September 2020

Update	Description	Release Date	Documentation
Released a Hadoop cluster version—EMR v2.5.0.	Upgraded the Alluxio component to the stable version 2.3.0, which delivers better performance in the use cases where compute and storage are separated.	September 17, 2020	<a href="#">Component Version</a>

## August 2020

Update	Description	Release Date	Documentation
Released a Hadoop cluster	Added the Kudu component and	August	<a href="#">Component</a>

version—EMR v2.4.0.	upgraded some existing components.	27, 2020	<a href="#">Version</a>
Added support for data migration in ClickHouse clusters.	Improved cluster resource utilization for data security.	August 17, 2020	<a href="#">ClickHouse Data Migration Guide</a>

## July 2020

Update	Description	Release Date	Documentation
Added support for custom configuration files.	Added support for custom configuration files, which improves the flexibility of configuration management.	July 29, 2020	<a href="#">Configuration Management</a>
Optimized configuration item editing.	Added descriptions for configuration items and support for restoring them to defaults.	2020-07-29	-

## June 2020

Update	Description	Release Date	Documentation
Added support for Druid service monitoring and HBase Thrift role monitoring.	Improved troubleshooting efficiency.	June 15, 2020	<a href="#">Druid Monitoring Metrics</a>
Released a Hadoop cluster version—EMR v2.3.0.	Added support for the TensorFlow and Jupyter Notebook components.	June 15, 2020	<a href="#">TensorFlow Overview</a> <a href="#">Jupyter Notebook Overview</a>
Released ClickHouse v1.1.0 for	Upgraded the ClickHouse component version to the LTS version, and added support for the Superset component.	June 15, 2020	-

ClickHouse clusters.			
Added support for cluster events and cluster inspections.	Added support for recording major change events and exception events in clusters in the console for improved efficiency of cluster troubleshooting. Added support for one-time inspections and periodical inspections, making it easier to keep track of the health of your clusters and to deal with exceptions and risks in time.	June 4, 2020	<a href="#">Cluster EventCluster Inspection</a>

## May 2020

Update	Description	Release Date	Documentation
Optimized console interactions, UI, and operation paths.	Improved operation path hierarchy for easier service management.	May 15, 2020	-
Added support for service monitoring for ClickHouse clusters.	Made it easier to keep track of the operation status of ClickHouse clusters.	May 15, 2020	<a href="#">ClickHouse Monitoring Metrics</a>
Added support for monitoring status for role management.	Made it easier to keep track of the real-time status of role processes.	May 15, 2020	-

## April 2020

Update	Description	Release Date	Documentation
Added new cluster types.	Added support for the ClickHouse and Druid clusters to provide more real-time query solutions.	April 15, 2020	<a href="#">ClickHouse OverviewDruid Overview</a>
Optimized bootstrap actions.	Added support for the running occasions of bootstrap actions before a cluster starts. Added support for adjusting bootstrap actions after a cluster is created, so you can change your bootstrap actions based on business changes.	April 15, 2020	-
Optimized service	Added support for setting service restart policies, so you can select a proper restart method and a policy for handling restart	2020-04-15	-



restart policies.	exceptions.		
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## March 2020

Update	Description	Release Date	Documentation
Optimized the cluster monitoring page.	Optimized the cluster overview, service monitoring, and node monitoring pages for improved readability. Monitoring metrics now support customization and heat maps about nodes.	March 2020	-
Added support for log search.	Added support for filtering by log file, node IP, and time range, and viewing cluster log content. (Currently, this feature is supported only in Guangzhou region.)	2020-03	<a href="#">Log Search</a>
Released EMR v2.2.0.	Upgraded Hadoop to v2.8.5. Upgraded common components such as Spark, Hive, and HBase. Added the Hudi, Superset, Livy, Impala, Zeppelin, and Kylin components.	2020-03	<a href="#">Component Version</a>

## February 2020

Update	Description	Release Date	Documentation
Added support for sharing Hive metadatabase.	Added support for associating an external Hive metadatabase to store the Hive metadata of a new cluster, so multiple Hive clusters can share metadata.	February 2020	<a href="#">Hive Metadata Management</a>
Optimized cluster operation logs.	Added display items for cluster operation logs to increase the readability of operation logs.	February 2020	-
Released the international version.	Released the international version in Beijing, Shanghai, Guangzhou, and Mumbai regions.	2020-02	-

## January 2020

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Update	Description	Release Date	Documentation
Added support for cloud disk encryption.	Added support for cloud disk encryption for Cloud Block Storage (CBS) users on the allowlist when creating an EMR cluster.	January 2020	<a href="#">Cloud Disk Encryption</a>
Added support for mounting cloud disks to a task node.	Added support for mounting cloud disks to a task node when creating or scaling out a cluster.	January 2020	-
Released EMR in Nanjing region.	Released EMR in Nanjing region.	2020-01	-

## December 2019

Update	Description	Release Date	Documentation
Released the feature of delivering group configuration.	Added support for delivering group configuration. If the configuration of a node is different from that of the configuration group to which the node belongs, the configuration of the configuration group can be delivered to the node.	December 2019	-
Released the feature of resource-level CAM authorization.	Added support for CAM authorization at the resource level.	December 2019	-
Released the feature of associating CHDFS.	Added support for associating CHDFS and reading/writing data on CHDFS.	December 2019	<a href="#">Mounting CHDFS</a>
Released the AMD model.	Released the AMD Standard SA2 model in Beijing, Shanghai, and Guangzhou regions.	2019-12	<a href="#">Instance Types</a>
Added the cluster monitoring overview page.	Added the cluster monitoring overview page, which provides the views about the cluster, node, and service status.	December 2019	<a href="#">Cluster Overview</a>
Added support for selecting metric display granularity as needed on the service monitoring page.	Optimized the service monitoring page, so you can select a metric display granularity as needed.	December 2019	-

Added support for node service deployment and load status views on the node monitoring page.	Optimized the node monitoring page, which provides the views about node service deployment and load status.	December 2019	-
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## November 2019

Update	Description	Release Date	Documentation
Added support for node specification management.	Added support for setting the default specification of nodes based on their billing mode. The default specification is pay-as-you-go.	2019-11	<a href="#">Node Specification Management</a>
Added support for the configuration of the ZooKeeper, Alluxio, and Flink components.	Added support for the configuration of the ZooKeeper, Alluxio, and Flink components.	November 2019	-
Released the feature of tagging clusters and nodes.	Added support for tagging clusters and nodes.	November 2019	<a href="#">Setting Tag</a>
Released new models in Beijing, Shanghai, and Guangzhou regions.	Released the S5, M5, C3, and CN3 models in Beijing, Shanghai, and Guangzhou regions.	2019-11	-

## October 2019

Update	Description	Release Date	Documentation
Released EMR v3.0.0.	Released EMR v3.0.0 with updated versions of major components.	October 2019	<a href="#">Component Version</a>

## September 2019

Update	Description	Release	Documentation
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		Date	
Added full support for TencentCloud API 3.0.	Added full support for TencentCloud API 3.0. Standardized the output/input parameters of certain existing v3.0 APIs. Added full support for v2.0 APIs in v3.0.	September 2019	-
Modified console configuration.	Disused the escape feature for special characters.	September 2019	-
Added support for CM alarm policy configuration.	Added support for configuring alarm policies in CM (in the Elastic MapReduce product category) for key metrics for node and service monitoring.	September 2019	-

## August 2019

Update	Description	Release Date	Documentation
Released the software configuration feature.	Added support for software configuration, which enables you to create a cluster with custom component parameters. The feature of accessing external clusters was added as well.	August 2019	<a href="#">Software Configuration</a>
Added support for configuring the remote login port when you purchase a cluster.	Added support for enabling or disabling the remote login port when you purchase a cluster.	August 2019	-
Added support for mounting multiple cloud disks to a new cluster.	Added support for mounting multiple cloud disks to a new cluster.	August 2019	-
Released the feature of scaling specified components.	Added support for scaling specified components.	August 2019	-
Added monitoring metrics.	Added new monitoring metrics for the Spark, Hive, Presto, and ZooKeeper components.	August 2019	-

## July 2019

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Update	Description	Release Date	Documentation
Released the feature of HBase table-level monitoring.	Added support for HBase table-level monitoring, which covers the number of read and write requests and storage of each table in HBase.	July 2019	<a href="#">Service Monitoring</a>
Released EMR in new regions.	Added support for the Singapore, Mumbai, and Chengdu regions.	July 2019	-
Released new models.	Released the Standard S4 and Standard Network-Optimized SN3ne models in Beijing, Shanghai, and Guangzhou regions.	2019-07	-
Optimized the interactions of monitoring pages and added new monitoring metrics.	Optimized the interactions of monitoring pages and added new monitoring metrics.	July 2019	-
Optimized WebUI proxy address.	Optimized WebUI proxy address.	July 2019	-

## June 2019

Update	Description	Release Date	Documentation
Released the feature of accessing external clusters.	Added support for accessing external clusters.	June 2019	-
Released the feature of setting bootstrap actions.	Added support for setting bootstrap actions.	June 2019	<a href="#">Bootstrap Actions</a>
Released the feature of delivering component parameter configuration to nodes.	Added support for delivering component parameter configuration to nodes.	June 2019	-
Released the feature of rolling back parameter configuration.	Added support for rolling back parameter configuration.	June 2019	<a href="#">Configuration Rollback</a>

## May 2019

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Update	Description	Release Date	Documentation
Released EMR v2.1.0.	Released EMR v2.1.0 with updated versions of main components.	May 2019	<a href="#">Component Version</a>
Added support for Kerberos security clusters.	Added support for creating security clusters. The open source components in clusters are launched in Kerberos security mode. In this security environment, only authenticated clients can access the services (such as HDFS) of the clusters.	May 2019	<a href="#">Kerberos Introduction</a>
Optimized monitoring metrics.	Optimized the Node, HDFS, YARN, and HBase monitoring metrics.	May 2019	<a href="#">Node Monitoring Metrics</a>
Optimized the style of console.	Improved the style of console for a better interactive experience.	May 2019	-
Optimized CVM and TencentDB naming.	Optimized CVM and TencentDB naming with the EMR cluster serial number for easier locating of cluster information.	May 2019	-
Changed the setting of public IPs of master nodes to optional.	Changed the setting of public IPs of master nodes to optional.	May 2019	-
Released the feature of adjusting the number of common nodes.	Added support for adjusting the number of common nodes as needed.	May 2019	-

## March 2019

Update	Description	Release Date	Documentation
Released new models.	Released the I3 model in Beijing, Shanghai, and Guangzhou regions. This model is included in the CVM allowlist, and you can purchase it only if you are in the I3 allowlist.	March 2019	-

Released EMR in a new region.	Made the purchase of EMR clusters available in the Silicon Valley region.	March 2019	-
Added support for router nodes.	Added support for router nodes, which are mainly used to relieve the load of master nodes and as task submitters.	March 2019	<a href="#">Node Type Description</a>
Released the feature of adjusting node configuration.	Added support for adjusting node configuration. Nodes can be upgraded to a higher configuration.	March 2019	<a href="#">Adjusting Configuration</a>

## January 2019

Update	Description	Release Date	Documentation
Added new components to existing clusters.	Added support for adding new components to existing clusters.	January 2019	<a href="#">Adding Components</a>

# Announcements

## Alarm Policy Migration

Last updated : 2022-11-25 16:06:46

### Background

Elastic MapReduce upgraded its server and component service monitoring items on September 10, 2019. A new policy type "Elastic MapReduce" has been added, which covers hundreds of monitoring metrics. You can configure alarm policies under the [Elastic MapReduce](#) policy type in Cloud Monitor. **The original policy type "EMR" was deprecated at 23:00 on March 30, 2021, and all the configured "EMR" alarm policies were invalidated.** To add new alarm policies, configure under the "Elastic MapReduce" policy type.

#### Comparison of "EMR" and "Elastic MapReduce" policy types:

Policy Type	Metric Coverage	Support and Maintenance
EMR	Cluster alarming (12 metrics) Node alarming (8 metrics)	It was deprecated at 23:00 on April 9, 2021 and no longer maintained.
Elastic MapReduce	Server monitoring Service monitoring Cluster monitoring	It was released on September 10, 2019 but is still maintained.

#### Note:

The "Elastic MapReduce" policy type covers all the metrics of the "EMR" policy type. For details, see [Comparison of new and original metrics](#).

### Alarm policy transfer

After the "EMR" policy type was deprecated, the system automatically migrated existing alarm policies under the "EMR" policy type to the "Elastic MapReduce" policy type. See further notifications for specific rules and verification methods.

#### Note:

A few users might need to migrate them manually.

#### Steps for manual migration are as follows:

1. Sort out exiting alarm metrics and policies.

Log in to the [Cloud Monitor console](#), select **Alarm Management > Alarm Configuration > Alarm Policy** on the left



sidebar, click **Advanced Filter**, select any sub-type of the "EMR" policy type in **Policy Type**, search for related alarm policies, and download them. Repeat this step to download the alarm policies under other sub-types of the "EMR" policy type.

**Alarm Policy** [New Version Guide](#) Alarm Policy User Guide

**Notification:** Starting November 15, 2022, the alarm policy type "TencentDB/Redis/Memory Edition (1-Minute Granularity)" will be disused and automatically upgraded to "TencentDB/Redis/Memory Edition (5-Second Granularity)" in a gradual manner, so that you can enjoy more accurate and timely monitoring and alarming services. You will be notified of this upgrade via SMS and Message Center.

**Toolbar:** Create Delete More **Advanced Filter** Separate keywords with "|"; press Enter to separate filter tags

**Filters:**

- Monitoring Type: Select monitoring type
- Policy Type: Select a monitoring type first
- Alarm Object: Select a monitoring type first
- User Group: User Please select
- Default Policy Filter: Please select
- Detection Type Filtering: Please select

**Query**

## 2. Configure alarm policies.

Click **Alarm Configuration** in the cluster list to go to the **Alarm Policy** page, click **Create**, select **Elastic MapReduce** in **Policy Type**, and configure an alarm policy according to one of the policies sorted out and downloaded in step 1. Repeat this step to configure other alarm policies. For more information on the configuration method, see [Alarm Configurations](#).

## 3. Verify the new alarm policies.

Verify that the "Elastic MapReduce" alarm policies are activated and can successfully trigger alarms. Set trigger thresholds in **Metric Alarm**, set recipient groups or recipients, and select receiving channels (email, SMS, or WeChat) for verification. Take `memory zone percentage_SO` as an example: when the statistical period is five minutes, and the percentage is greater than or equal to 1% and lasts for five minutes, an alarm will be triggered once every five minutes.

## 4. Delete original alarm policies.

After verifying the new alarm policies, delete the original alarm policies configured under the "EMR" policy type. Select any sub-type of the "EMR" policy type in **Policy Type**, search for related alarm policies, and delete them. Repeat this step to delete the alarm policies under other sub-types of the "EMR" policy type.

If you encounter any issues during the transfer, [contact us](#) for assistance.

# Comparison of new and original metrics

Original Policy Type	Metric/Event Alarm	Original Metric/Event Name	New Policy Type	New Metric/Event Name
EMR-cluster alarm	Metric alarm	Used HDFS storage space	Elastic MapReduce-HDFS-overview	Cluster storage capacity_CapacityUsed
	Metric alarm	HDFS storage utilization	Elastic MapReduce-HDFS-overview	HDFS storage space utilization_capacityused
	Metric alarm	YARN app blocks	Elastic MapReduce-YARN-overview	Applications_pending
	Metric alarm	Failed YARN apps	Elastic MapReduce-YARN-overview	Applications_failed
	Metric alarm	Assigned cluster CPU cores	Elastic MapReduce-YARN-overview	Cores_allocatedVirtualCores
	Metric alarm	Cluster CPU utilization	Elastic MapReduce-YARN-overview	CPU utilization_usageRatio
	Metric alarm	Available cluster memory	Elastic MapReduce-YARN-overview	Memory_availableMB
	Metric alarm	Cluster memory utilization	Elastic MapReduce-YARN-overview	Memory utilization_usageRatio
	Metric alarm	Cluster container blocks	Elastic MapReduce-YARN-overview	Containers_containersPending
	Metric alarm	HBase requests	Elastic MapReduce-HBASE-overview	Total cluster requests_clusterRequests
	Metric alarm	Time taken for HBase sync	No longer maintained	-
	Metric alarm	HBase sync log length	No longer maintained	-
	Event alarm	Node monitoring heartbeat missing	Elastic MapReduce-server monitoring-network	Node monitoring heartbeat missing
	Event alarm	Process restart	Elastic MapReduce-server monitoring-process	Process OOM

EMR-node alarm	Metric alarm	Disk utilization	Elastic MapReduce-server monitoring-disk	Disk capacity utilization_used_all
	Metric alarm	Memory usage	Elastic MapReduce-server monitoring-memory	Memory usage_MemFree
	Metric alarm	Server restart	No longer maintained	Server restart
	Metric alarm	Memory utilization	Elastic MapReduce-server monitoring-memory	Memory utilization_used_percent
	Metric alarm	CPU usage	Elastic MapReduce-server monitoring-CPU	CPU utilization_idle
	Metric alarm	Inbound packets over private networks	No longer maintained	-
	Metric alarm	Outbound packets over private networks	No longer maintained	-
	Metric alarm	TCP connections	Elastic MapReduce-server monitoring-network	TCP connections

# Security Announcements

## Notice for Apache Log4j 2 RCE Vulnerability

Last updated : 2022-05-16 12:15:40

### Vulnerability Description

Recently, Tencent Cloud has noticed that the remote code execution vulnerability in Apache Log4j 2 has been disclosed. There is a JNDI injection vulnerability in Log4j 2, which can be triggered when the program logs the user-input data. It can be exploited to run any code on the target server. For more information on the vulnerability, see [here](#).

### Impact

Components in EMR such as Flink, Hive, Ranger, Presto, Oozie, Knox, Storm, and Druid are affected by this vulnerability. If you are affected, fix it as instructed below.

### Solution

Replace the Log4j 2 package with a safe version.

Affected versions: Apache Log4j2 2.0–2.15.0-rc1.

Safe versions: Apache Log4j 2.17.1.

### Fix Command

1. Run the fix command in the standard EMR directory:

```
wget https://image-repo-gz-1259353343.cos.ap-guangzhou.myqcloud.com/user-patches/log4j2.sh -O fix-log4j2.sh && bash -x fix-log4j2.sh /usr/local/service
```

2. Fix the JAR packages in the cache directory when running the task.

Make sure that there are no problematic JAR packages in the submitted task; otherwise, they will be cached again in the task submitted next time.

Directly delete the problematic JAR packages in the directory.

```
/data/emr/yarn/local/filecache/  
/data/emr/yarn/local/usercache/
```

```
/data1/emr/yarn/local/filecache/  
/data1/emr/yarn/local/usercache/  
/data2/emr/yarn/local/filecache/  
/data2/emr/yarn/local/usercache/
```

The above lists the information of only three data disks, where the number following `/data` is the data disk index. You need to clear the corresponding files in the `/data` directory of all data disks.

3. Run the following command to fix non-standard directories (directories other than `/usr/local/service` ).

```
EXTRA_DISRUPTOR_DIR=/path/to/other bash fix-log4j2.sh /path/to/other
```

4. Fix in other scenarios.

Upgrade the six JAR packages related to the vulnerability: log4j-api, log4j-core, log4j-jul, log4j-slf4j-impl, log4j-web, and disruptor. If such a package doesn't exist, you don't need to replace it.

## Service Restart and Grayscale Fix

1. Perform a fix on a node in the cluster.

Restart the Flink, Spark, Hive, Ranger, Presto, Oozie, Storm, Impala, Knox, and Druid services on the node.

Restart all resident tasks, including Flink, Storm, and Spark tasks.

2. After confirming that everything is OK by restarting the services on the node, perform the fix on other nodes.

## Fix Process

1. Place the six fixed JAR packages in the `fix-log4j` directory of the execution directory.

2. Search for problematic packages in the target directory and replace the found ones with the six fixed JAR packages. The problematic JAR packages in the `tar.gz` and `war` packages, as well as the cache package in the `/user/hadoop/share` path on HDFS will be replaced at the same time.

Replace `log4j-api, log4j-core, log4j-jul, log4j-slf4j-impl, log4j-web 2.0-2.17.1` with the 2.17.1 version.

Replace the versions earlier than `disruptor-3.4.2.jar` with the 3.4.2 version. Note that the disruptor needs to be replaced only for certain components.

## Rollback Steps for Service Problems

You need to copy the problematic JAR packages back and delete the added latest JAR packages.

1. Decompress the backup file.

```
cd fix-log4j2
tar zxvf rm_if_no_need_to_rollback.tar.gz.1639576622
```

## 2. Copy the backup file back.

```
cp -r ./root/fix-log4j2/emr_fix_log4j_bak_10812_1639576622/usr/local/service/* /us
```

## 3. Delete the added latest Log4j JAR packages.

```
find /usr/local/service/ -name log4j-api-2.17.1.jar | xargs -n1 -I{} rm -f {}
find /usr/local/service/ -name log4j-web-2.17.1.jar | xargs -n1 -I{} rm -f {}
find /usr/local/service/ -name log4j-jul-2.17.1.jar | xargs -n1 -I{} rm -f {}
find /usr/local/service/ -name log4j-slf4j-impl-2.17.1.jar | xargs -n1 -I{} rm -f {}
find /usr/local/service/ -name log4j-core-2.17.1.jar | xargs -n1 -I{} rm -f {}
```

## 4. To roll back in the `/path/to/other` directory, replace `/usr/local/service/` with `/path/to/other`.