Camunda version

Thursday, 4 May 2023   12:53 AM

Camunda 8 features -> https://tools.lowes.com/confluence/display/LES/CAMUNDA+PLATFO

Camunda 7
1. Optimistic locking -> to increase concurrency and deadlock avoidance
2. increase concurrency since each parallel tokens can be maintained in the separate rows
3. control savepoints
4. minimalistic row updations
5. intelligent caching
6. clustering -> multiple nodes, shared database
        1. HA configuration / active-active nodes
        2. no single point of failure(sof)
        3. same process instance can be processed in multiple nodes after the transactions are
7. minimalistic resource allocation
        1. all are stateless machines
        2. runtime vs history
                1. setting history level to AUDIT to store minimalistic data in history tables.,,vari
                avaoided
                2. making use of runtime tables to perform all transactions.
                3. history tables are only meant by auditing purpose.
8. history event stream
        1. all the history events will be flushed to history tables by default

* Support of HA on Community version of Camunda.
I involed in building the camunda 7 workflow engine with high availability by creating the clu
connected to shared database.
* Review of the already implemented workflows and provide holistic feedback on both the f
functional improvements to them.
yes, we keep refining the existing workflows whenever we comes across new feature in cam
features to keep our modeller simpler and also to keep less coding work on the camunda en
we always build reusable delegate execution class and listeners to attach in the bpmn mode
reminder/escalation notifications.

* Design and Implementation of separating the transaction and history tables of Camunda a
improve performance.
currently we are maintaining both runtime and history data in same schema and we used hi
but we are also pushing all the events to kafka topic by attaching listeners in each bpmn con
state change happens, it will emit events and all the events are dumped into audit trail table
auditing, analytics and aggregation/computation operation.

e flushed to shared db

able instance data will be

uster with mutliple pods

functional and non-

unda by adopting those
gine application.
llers to emit metrics and

cross different schemas to

story level as ACTIVITY.
mponents. so whenever
e in mongodb(Nosql) db for

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* Help in implementing framework to support low/No Code on Camunda.
built lot of custom api and resuable functionalities by making use of library functions provide
minimal coding is required to onboard any new workflows
* Review and suggest changes in the application to support scalability of Camunda to suppo
latency.
to support high throughput, we are referring to runtime tables to fetch data and kept the ap
ACTIVITY, so that only highly required audits will be maintained
also to increase the throughput we scaled the pods of camunda engine application and verti
support more db connections.

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tagingLocation":""}]},"AssemblyType":"","AssemblyOption":"","GigShipment":"N"}

Camunda 7 links
https://forum.camunda.io/t/differences-between-enterprise-and-community-edition/2296
https://camunda.com/platform-7/editions/
https://camunda.com/platform-7/performance/
https://docs.camunda.io/docs/components/best-practices/development/understanding-tra
https://docs.camunda.org/manual/7.18/user-guide/process-engine/history/