ADBM 8 Kautik Jolapama (Page No. 4 60004200107 Date: / / B1 - Comps Experiment 1 Date of Practical: 1/10/22 Aim: case study of purpessional & commercial database Database: ScyllaDB Syllads is an open-source distributed Nosez widecolumn data storre It was designed to be compatible with Apache cassendua while achieving Significantly higher throughputs and lower lateries. Syllads uses a shauded design on each mode meaning that each CPU conc handles a different subset of data comes do not share data but nathou communicate explicitly when they need to why is Sychaos proffered? 1) puice performance Building on the Nosel ABOAS achieves millions of OPS thurughput smom single node rusulting in huge cost sowings. 2) Low Cathrill onsistent single-digit millisecond pag latercies ensure dependable penformance 3) No renday lock-in Built in Rose paritability, you can easily migurate data to other douds or on-premise deployments 4) Cassardua / DynamobB compatible Migrate to Scyllads Good from Apache Cassardha or Amazon Denamo DB without changing your application code

Company: Hotstall (Disney + Hotstall), India's most popular Streaming service, accounts hate over 40% of global Disney+ Subscribers, offers 100,000 hours of content on-demend and most-watched spouling event (IPL with over 25 million concumrent viewers)

The Hotstath database previously worsisted of a new data model then they moved to a high-performance Lowfatchy database-as-a-service called as Sigla Gloud It sometred the laterry is ves for both read or white to ensure snappy well expellience that today's streaming were expect - over with mapidly growing worket library and skyrrolketing subscriber base

A main-engaging feature that they vied was of "continue watching" which mightity of the user based had been then to use AP it would promote the watching again from that paliticular time-stamp so they use Ecyllabs to prouse 100 to 200018 or data daily for this seature to be in use

Compares ion. DyramaDB SylladB Desc- It is a fully managed It is a open-source distorbuted escioprietary Nosar database Nosal datable with wide-

schille that supposeds the column data stoye. It was document data structures designed to be compatible

as well as very -value with Apache cabbandua. to were latercies. . pains

AWS -Sout UP?

Compatible

Dyronope Signature i uniq cyco-Scully (loud based any Yes with enoughion of · sewsity Continuous Backup COSE very low Nati Marion Replication Saledoitii Trocks how close voice Highly scollable too b is to the spell boards diesn's odjust itself ollowing the coek to oute-scal ACIUS 8 peumits fine-around Acuse mights are defined ocuss antroj o tenthe peu object, no granular controls data by table owner distinguishing available smooths the worktings to avoid oresiting Lottle neurs Only factor where synamo falls apart, estimated yearly Philip £ 525,000 \$ 119 00 Magens mosartion A PI for En 104 Single operations Sell tuble replication Win Por Prods factor Overall Throughput 857 (Op8/ Sec) READ operations 50MM (Avg) UPPATE generations: 50 M 250 M

AVa

Recommendation: As the previously used database which is sylla PB has some duambachs of its own and which Dyname DR shines in Some of the ecaliums are like the peribistence of event-streem data, which has Time-ordered streams within the Alls database that chables the developers to neight and update ikm-level data both before and after Dynamore extells. To cose à the system failure me syllabb also dosso't hold the backup deltabase in which there can be stateed the data : I has some backup of the data but not comparable to the Aur services provided by synamors. There are mony Aus options to we as a services for Dynamoros and and: its data coalysis and maintenence of which and low latercy database symamobs soutidies: 15 you But Dynamo DB is a very good option

conclusion: Syllabs has both its advantages and discidentages but overlall it is working perfectly for me intedled work of flotstar in serving the customers to their major ments. The only myor deciding factor of the usage of sylvabs is because of its work and the vart open sounce amounity. Apout summer there factors by nameds is a fair better alternative to it and can be used extensibly used instead of syllabs to manifest all the Aws cloud services as well.