Name: Nishart Sanjay Chavan corp: 180600283 class: BE/B Sub: BDA Rollno: [18] rolinnio o doubant milionognes, si alsom : 31.3 (1) on and si alolus and to evilone att alolus ou Q.2) - Hadoop File system was developed using distributed file eystem. It is own on commodity handware Unlike other distributed systems. HOES is highly faulttoterant and designed using low-cost hardware ingrable raine has Features of HOFSmirround 29mt 12 mins shall !! 1) It is suitable for the distributed storage and processing. 2) Hot Hadoop provides a command interface to interact with HDES 3) The built-in servers of namenode and datamode helps user to easily check status of chiefers. 4) streaming access to file system data. HDFS Prochitecture: · Name Mode Replication (es) moba Data nodes (& Data nodes 11 - Rack 2-Racki --- 180 - = (13 Page: 2/1

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NameNoded madda a simple ward and and the The Namenode is a commodity hardware that contains the GNU/Likux operating system and the ma namenade software. It is a software that can be sun on commodity hardware. The system chaving the namenode acts as the master server and it does following tasks:-1) managing the Rile system namespace. 2) Regulates client's access to Ale. 3) It also executes Rile system operations such as benaming, closing and opening files. due naras comstinosa primbinara vala Fr Data node: The Data node is a community commodity handware using anu ! Linux operating system. and data node software freny node in a cluster, there will be datanode. These nodes manage the data storage of their system. i) Oatanodes perform read-write operations on file system as per client request. 2) They also perform operations such as block creation, deletion and replication according to instructions of namenode

Block: Generally the user data is stored in files of HDFG. The file in a file system will be divided into one or more segments and for stored in individual data nodes. These file segments are called as blocks:

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Nome: Nishant Sanjay Chavan n 72. 28 Class: BE/B Sub: BDA Rollno: 118 Q.3) Hadoop Fragyistem is a platform or a suite which provides various serevices to solve the big data problems. It includes Apache projects and various commercial tools and solutions. There are four major elements in Hadoop. ire. Hadosp, map Reduce, YARN and Hadoop Common. - Lodget aring the such is he Hadoop Foosystem Oozie Chukwa Flyme Zookerper evaskflow monitoring management of ilmanagement of and Hive Pigs mahout (SQL) (Data Plow) (ML) (RPC) ma stick - Data Access - A Americania on map Reduce Caluster management) (cluster and Data processing HBAGE ... (File system) | Column DB st Data Storage Page: 3/1 Oshavan 1900

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1) HDF3: HDFS 196 the poimary or major component of hadoop ecosystim and is responsible for storing large data sets of structured or unstructured data across various nodes and thereby maintaining the metadata in form of with logariles metane of at intiliational on HDFS consists of Name Node and Doto node. the contract of self placed of make a self 2) VARNORSKEI botogomen) ung 1 erant och : Yet Another Resource. Megotiator as the ma name replies, YARN is one who helps to manage the resources across the clusters. In short, it performs scheduling and resource allocation It consists of! i) Resource managers 2) Nodes manager 3) Application manager. 3) MapReduce: By making the use of distributed and panallel adjustithms. mapkeduce makes it possible to carry over the processing logic and helps to write applications which transform big data sets into manageble one. 4) PIG: Pig was basically developed by Yahoo which works on pig latin language, which is Query language similar to SQL. It is platform for structuring the data Plow , processing and analyzing huge data sets.

Pshavan

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4) HIVE! with the help of sol methodology:
and interface, HIVE perform reading and
waiting large datasets.
the of fillings someth hands having where
mahout: mahout allows machine for learning
ng learnability to a system or application.
machine learning as name suggests helps
patterns, user / environmental interaction.
algorithms.
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