il What is VM ware? VM ware is a virtualization and cloud computing software. Ly VMware software allows you to run a virtual computer on your physical computer. It increases the efficiency of computer system. 2) What is iso file related to 08? 280 file are like digital copy of a cohote operating System CD or DVD -> An ISO file often represents a complete image of operating system installection dish. TSO files support archiving of file folders such as system and installation files of operating system, softwere program, file folders, movies, videos, or even computer games 3) What is HDFS? Stands for Hadoop Distributed lile system.

Stands for Hadoop Distributed file system.

The primary storage system used by hadoop applications.

HDFS operates as an distributed file system designed to run on commodity hardwore

HDFS is a module of Hadoop

1

-> Apache Hadoop is an open source framework that is used 4) What is Hadoop? to efficiently to store and process large datasets ranging in size from gigabytes to petabytes of data Difference between Hadoop and HDFS -> Hadoop is the open source framework that can store, process and analyze data, while HDFS is the file system of Hadoop that provides access to data. 5) What is map Reduce MapReduce is a method for processing big duta across many computers. 3) It splits tasks into smaller parts, processes them simultaneously, and then combines the result. 6) Which are basic primary steps related to MapReduce? Mapreduce map Mapper phase split & Shuffle Cluster computing, Reducer phase. Reduce. Crid computing

- 7) What is Scoop ?
- > Scoop stands for SQL to Hadoop and Hadoop to SQL.

 Scoop is a tool designed to transfer data between

 Hadoop and relational database servers
 - 8) What . is Flume?
- Flume is a distributed, reliable, and available service for efficiently collecting, aggregating, and moving large amounts of log data.
- 9) What is Spark? application.
- -> Appache Spark is an open-source, distributed processing system used for big data workloads.
 - > It utilizes in-memory caching, and optimized query execution for fast analytic queries against data of any size
 - Application.

 Financial Services: Spark is used in banking to prealick customer chum, and recommend new financial products.
 - Health care: Sport is used to build comprehensive patient.

 care, by making data available to front-line health coorders for every patient interaction.
 - iii). Retail: Spank is used to attrack, and keep customers through personalized services and offers.

Hive is a clocka workhouse system which is used to analyze 10) What is Hive? structured data. I It is capable of analyzing large Latersets stored 1 > Hive is fast of scalable. in HDFS Pig is a high-level data flow platform for executing in What is Pigy MapReduce programs of Hadoop. 1> language used for Pig is Pig latin 12) What is 'R' ? 8uch as in-built birctions and a wide range of packages to perform duta analytis, represent data and bild visualization 13) Use of advantages of R? 14) what is tableau! Tableau is a powerful tool useal for data analysis of visualization 18) which type of dataset is accepted by tableau? > Tableau accepts structured deuta, cloud - based data sources, geograp geospatial deuta and real-time

deta stream

16) What is Big Data? Big data refers to extremely large and diverse collection of structured, unstructured, and semi-structured data L's used in machine learning, predictive modeling. 17) Which are 5 V's related to big data. velocity, volume, value, variety, veracity. 18) Which furthon is required to present graph in (R' language plot() -> primary finction used to create graph. hist() -> Mistogram. 26 ggplot2 barplot () -> borr charts. Pachage is used for scatter plot() -> scatter plots. creating highly complex visualizations 19) Differentiate 1800 Between Pig, Hire & Mapreduce. Mapreduce Hive 30 scripting language compiled language. SQL like grenny language @ Higher level of Higher level of lower level of abstraction abstraction. abstraction 1 Howo stares of COOM Good Than maprime More lines of comparatively less lines comparatively less lines of code than Hapkeduce code of code than Mapretuce

20) How to copy file from one directory to other? > primary command for copying files in HDFS. hadoop fs -cp"
221) rooks - 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
is installand annually
21) Which command need to provide to check Hadrop is installed properly. hadrop version
(8) which hindred is required to present graph in
200 Cohat is différence between single falistributed system.
-> dance above at large without proming an Otal
history histogram. of opposed - Ottoin
Andrew plots and and a stole waters of the samples of
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28) Which are pre-requister for Hadoop installation.
check Java version & Cara.
Hardware requirement: 40B por
hand disk for botter
Hardware requirement: 4GB RAM & minimum 60 GB hard disk for better performance.
The second secon