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| 02 | (a) | |
| | Micro Surcies | Monolethic |
| | Service Startup s relatively quich. | - Service Startup takes mare |
| | All mivio Servius Should be lonely coupled so that changes made in one does not affect the other. | - Monolethic arch. to ligtly Coupled Changes in one module of Coole affect the other. |
| | Businesses Can deploy more resources to survives that are generality highe ROI | - Since Services are not isolated, individuals resources allocation not possible. |
| | - Always remains Consistent & Continuously available | - Development looks get over- burdended as the process to start from the scrake. |
| - | -Change in the data model of one Microservices does not affect other Microser. | - Change in data model affects the entire database |
| | affect other Thouse. | V |
| _ | The Bounciple that focuses - | - Put emphaize on the entero |
| | on product, not projects | - Put anghaize on the entero projed. |
| | | · |
| | -Small folus Teams, Parallel & faster development. | - Large Team & Considerable team manag. effort reg. |
| | - Interacts with other micro- | - Not applicable |
| | 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | // |

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| | | | |
| 02 | (5) | | |
| | (j) | | |
| - | Just les Map-Riduce many Input loutput operation | | |
| - | But, the only Input output operation happens at first stage (the file get executed). | | |
| | guest stag the file get executed. | | |
| - | - After that out data is always silling in memory. | | |
| | of storing in memory. | | |
| | So, it gives faster output. | | |
| _ | 10000 | | |
| | - Apache Sparel proces data is Handon acces mencey ville Hadoop Map Riolius persils data block to dish afte a map. | | |
| | to dish after a man | | |
| | Jis a wap. | | |
| | | | |
| | (ii) Advantage of Microservis. | | |
| | 1) Small to Size = It to a implementalis of and | | |
| | (1) Small in Size :- It is a implementation of SOA design pattern. It will be obvious small in Size & lasy to maintain. | | |
| | e of the second | | |
| | small in size I lasy to maintain, | | |
| | Ou Autonomour Each microscovies Should be an | | |
| | autonomous business unit of the entire | | |
| | autonomous business unit of the entire application. Hence, the application becomes more loosely coupled. | | |
| | more loosely coupled. | | |
| | | | |
| | (Iii) Technology heterogenety: - Different technology to Communicate with each other in one busnisses unit. By | | |
| | in one bushing unit P | | |
| | Implement. | | |
| | Implementan. | | |
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| | (W) Restrence:- Resilien to a property of esolation |
| 03 | |
| | At handles fault by the process of |
| | - HDPs also maintain the ruplication factor by Oruating a ruplice of data on other available machines in the cluster of Suddenly one machines fout. |
| | - Madoop 3 introcles Evrasure loding to provide Fault Tulerane. |
| | (2) |
| , | - Data Nodes are the Commodity hardware only as it can store data like laptops & personal Computers, these are required in large number. |
| | - Instead, Name Node is the master node, it Story metadata about all the blocks Stared in HDPs. |
| _ | - It meds high memory space, thus works as a high and machine. |
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| | |
| | (3) |
| _ | all the data roots is diclared dead to the other data nods. with which the |
| | to the other data blocks it host with which the |
| | blocks are replicated. |
| | This is how Mane Node handly datanoods |
| | failur. |
| | - Une last work a Marke I lave mide where |
| | Mars voile act as Master & Dafavoile act as |
| | Slaw. |
| | |
| | (4) |
| | - A Record Reader Converts the byle-oriented view |
| | of the input to a record-ariented view for |
| | of the input to a record-ariented view for the Mapper & Reducer tasks for |
| | prolemy. |
| | To Whole & Hadro Read Pool in med to |
| | - To Understand Hadoop Record Readle, in need to understand MapReduce Dataflow |
| | |
| _ | of data processing. |
| | of data processing. |
| | |
| | |
| | |
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| | |
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