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Pg. No.: Date :..... ferform setting up and Installing Mudoop in its two operating modes: Ans: · Fully distributed web bused tools to monitor your Hudoop setup. Solution: - Setting up and installing Mudoop in its two operating modes on a windows environment requires a series of steps we will cover both modes, the installation of Hadoop. & web-bused tool to monitor the setup. Prerequisites: · Windows Subsystem for On linux-bused system, installing Hudoop on windows directly can be cumbersome. Thus, we use WSL to create a Linux-like environment on windows. · Java: Hudoop requires java to run Make sure you have Jok installed. Hudoop binaries: Download the Hudoop binaries for



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1.	Pseudo-distributed Mode Installation:
	Step 1: Install WSL (if not already installed)
	1. Enuble WS1:
	+ Man Paray [last of the initial to a wind not
	dim a cal an inal enubla - tell Tule / red lare riame =
	Microsoft-windows-subsystem-linux/all/novestar
	LARE SINGLED HE WITH WHAT I BEEN ADD WITHOUT TO CONTROL OF SINGLE
	2. Instyll a linux distribution:
d Disch	from the microalsoft store, install Ubuntu or
A Trible	other exeterned linux distribution.
	· After instullation, run it and set up the
	yser (redentys.
-	Step 2: Install Java in WSL
	The state of the s
WINE !	1. Open your Wil terminal and install Jung using:
Mong M.	2. Suboc upt update.
	3. Subo upt install openidk-8-jdk 4. Verify the Juna installation
	4. Verity the Juva installation
	5. Java- Version
VIII.	or till trop of over convert tropolities over the
-	Step 3: Download & Extruct Hudoop:
	TO I I I I I I I I I I I I I I I I I I I
301	1. Nown loud Hudoop binaries from the Aupuche website
9 (40 VII	2. Extruct the Hadoop tur file to a director cex: lusylocal/hadon
	3. tur-x2vf hudoop-3.3.1. ker 9z-c/usr/local/
	4. set the environment variables in bushre:
	5. nuno ~/-burghrc



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	Add the following lines ut the end of the file
	export HADOOP HOME = /USY / local / hudoop export JAVA HOME = /USY / lib / jVM / jUVU-8- openidk-
11,10	HOME / bin: & HADOOP - HOME
	6. Retoud the bushre file: 7. Source ~/ bushre
	Step 4: Configure Mudoop for Pseulo-distributed Mode
	1. Edit the Hudoop Configuration Mode
	(ore-site.xml: Locuted in \$1-ADPOOP-HOME/etc/hydoop/core-
	<(on-tiquevation)
	<pre><pre>chaperty ></pre></pre>
	Willes hets: 1/ localhost: 9000
	(ontiquation)</th
	hdfs-site.xml: Located in \$HADOOP_HOME etc hudoop /hdfs-site
	(configuration)
	(property) (nume > its replication (nume)
	(values 2/vylues
	C 0 x 0 0 x 1 2 x 2
	(property) (nume > dfs. name node. nume-dir/numes
	1110 Art > 613. 1101 11 1104. 11011(6. 011 / 110111()

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	<pre>Cproperty></pre>
	(nume) de: dutunodo-dutu dix (/nume>
	Crylle > file: //usx / local hudgop / duty / hd15 / duty pode
	//value
	<pre></pre> <pre><</pre>
	<pre></pre>
18,001 45	Mugred-site-xml: Located is SHADOOP-HOME/etc/hudoop/
	mupred-site.xml
	Construction Construction
	<pre></pre> <pre>(configuration)</pre>
	Cproperty >
	coume mupreduce framework name c/names
	<pre> </pre>
	The state of the s
	(configuration)
	<pre>cproperty;</pre>
	(numes yarn nodemanager aux -services/names
	¿Vulues mupreduce - shuffle //vulues
NA REL	< Iproperty>
	configuration
	1 110-0 7:1
~ D	Step 5: Formute the HDFS File system
	1.7 (1: 1. 4050
	1. Initialize MDFS running.
	2. hdfs numerode-format

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→	Step 6: Sturt Humpop Dyemons 1. sturt the Mudoof services:- 2. sturt - 165.5h
	3. sturt-yurn.sh Step 7: Verify the Installation 1. To check if the HDFS is running: 2. ips
	You should see the following process. Name Node · Duta Node
-1	· Resource Munuger · Node Munuger. PAStep 8: Monitor Hudoop using Web UI
	1. HOFS WebUI: Access it at http://localhost:500700/ for Name Node monitoring. 2. YARN Resource Munuger UI: Access it at http://l localhost:8088/ to monitor YARN.
3.	Web-bused Tools to Monitor Mudloop setup: 1. MOES Web UI: Navigate to http://oculhost:50070/for Nume Node web UI.
	You can view the health of the HDFS. file system stutus, & other HDFS stutistics.

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	2. YARN RESOUVLES MUNICION NIT:
	2. YARN Resources Manager VI: Navigate to http://localhost:8088/for YARN
	Recollice Munuapy.
	Recource Munager. This VI will show the stutus of running application, resource utilization,
	running condiction resource utilization,
	and job detuils.
	3. Grunglici:
1	you can set up Gunglia to monitor
_	cluster performance (cpU, memory, 1; els, etc)
	follow Gunglia installation guides for your system.
	your system.
-	