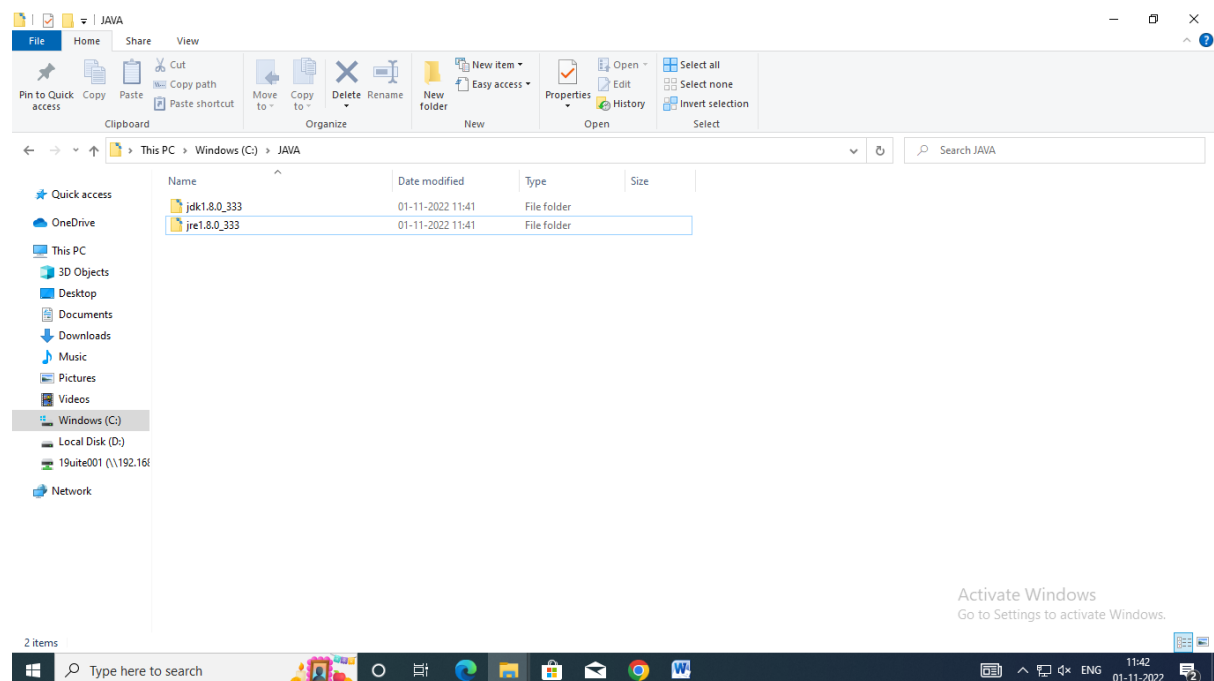
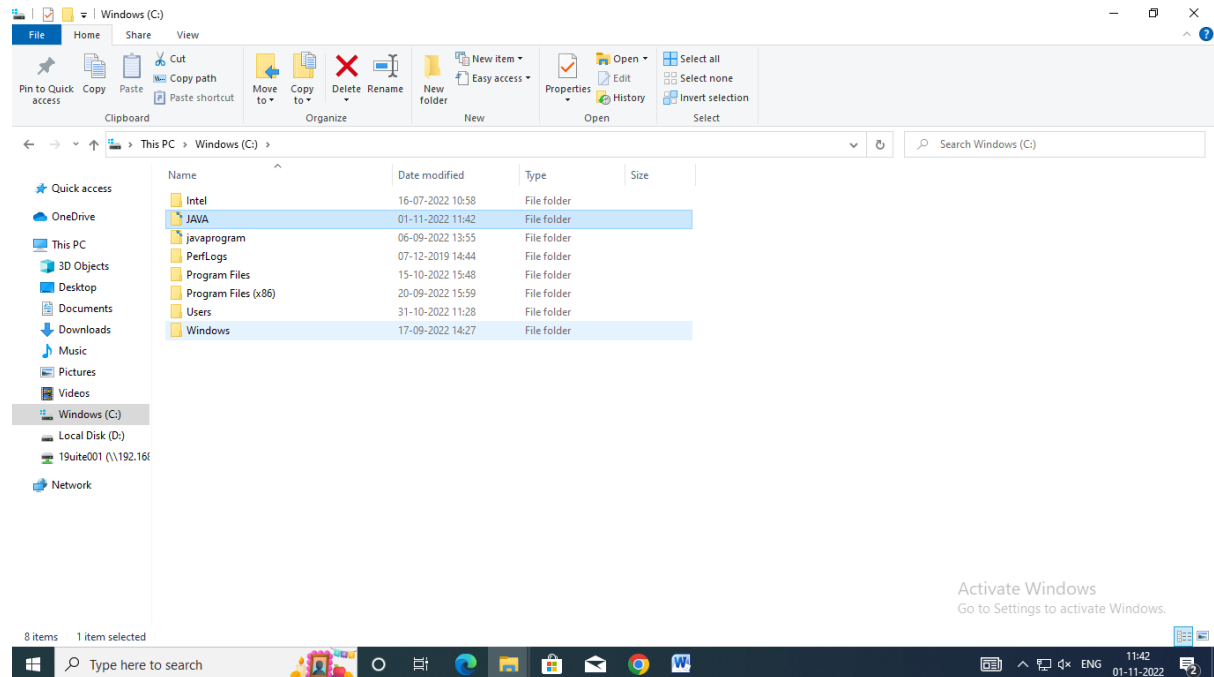


Name : ANANTHAN C P

ROLL NO : 19UITE017

Ex. No : 09

Installation of Single Node Hadoop Cluster

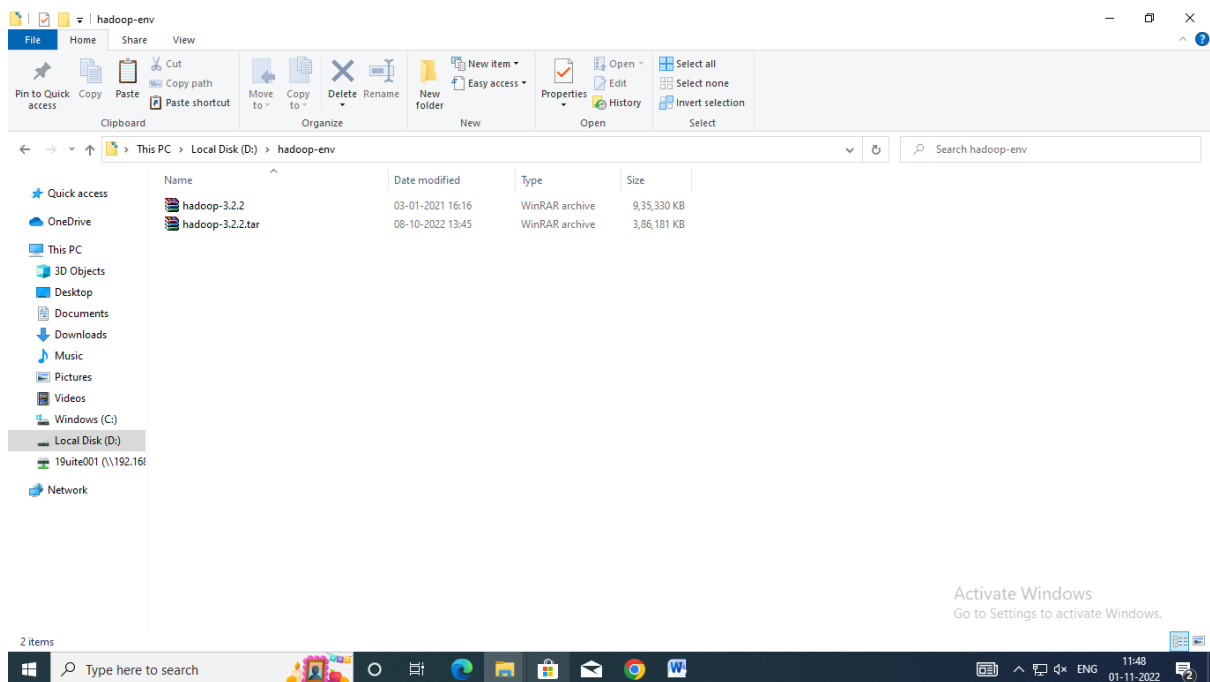
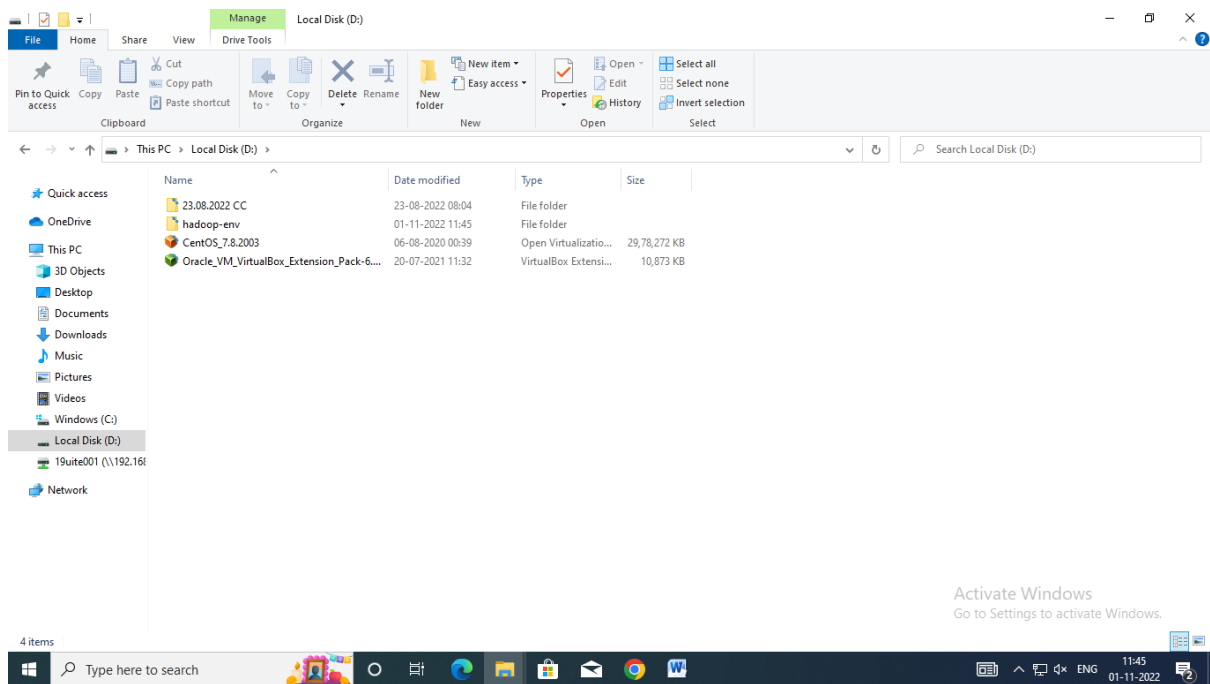


Name : ANANTHAN C P

ROLL NO : 19UITE017

Ex. No : 09

Installation of Single Node Hadoop Cluster

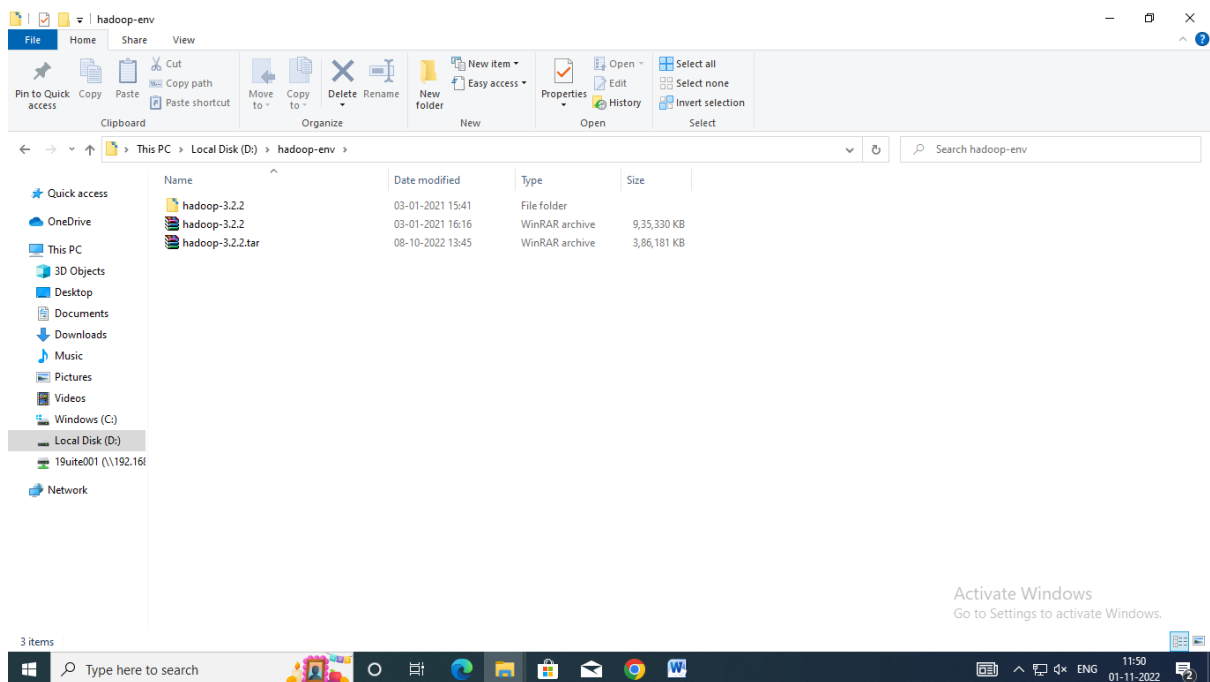
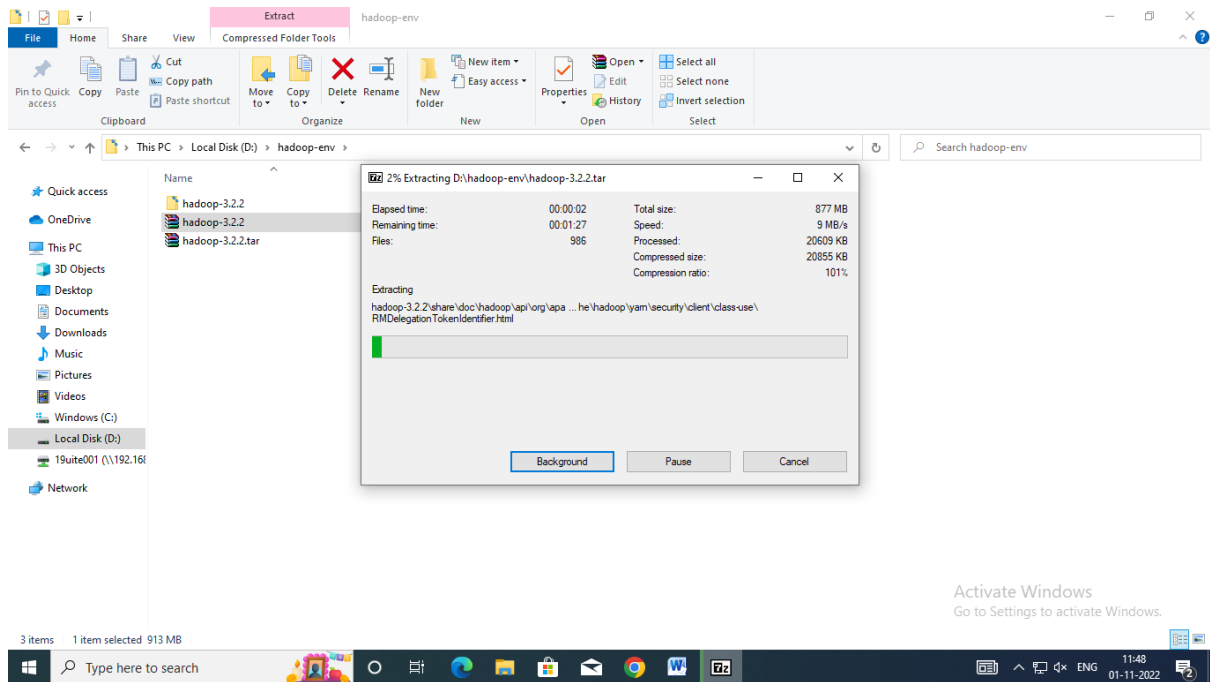


Name : ANANTHAN C P

ROLL NO : 19UITE017

Ex. No : 09

Installation of Single Node Hadoop Cluster

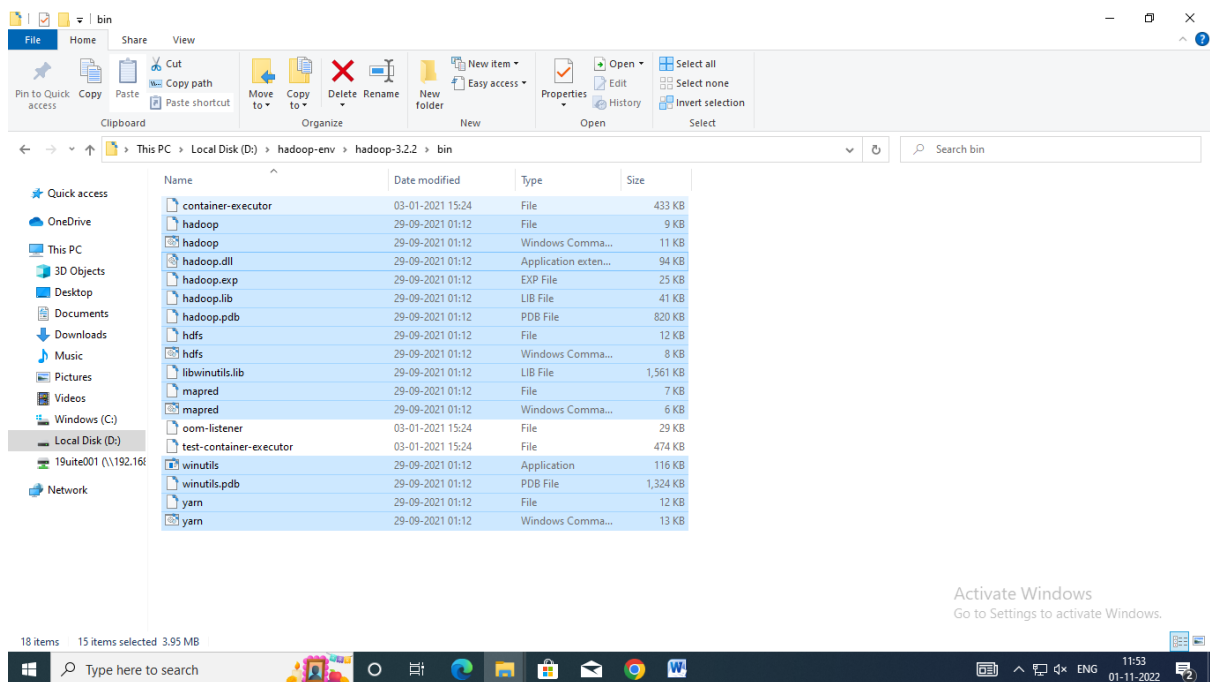
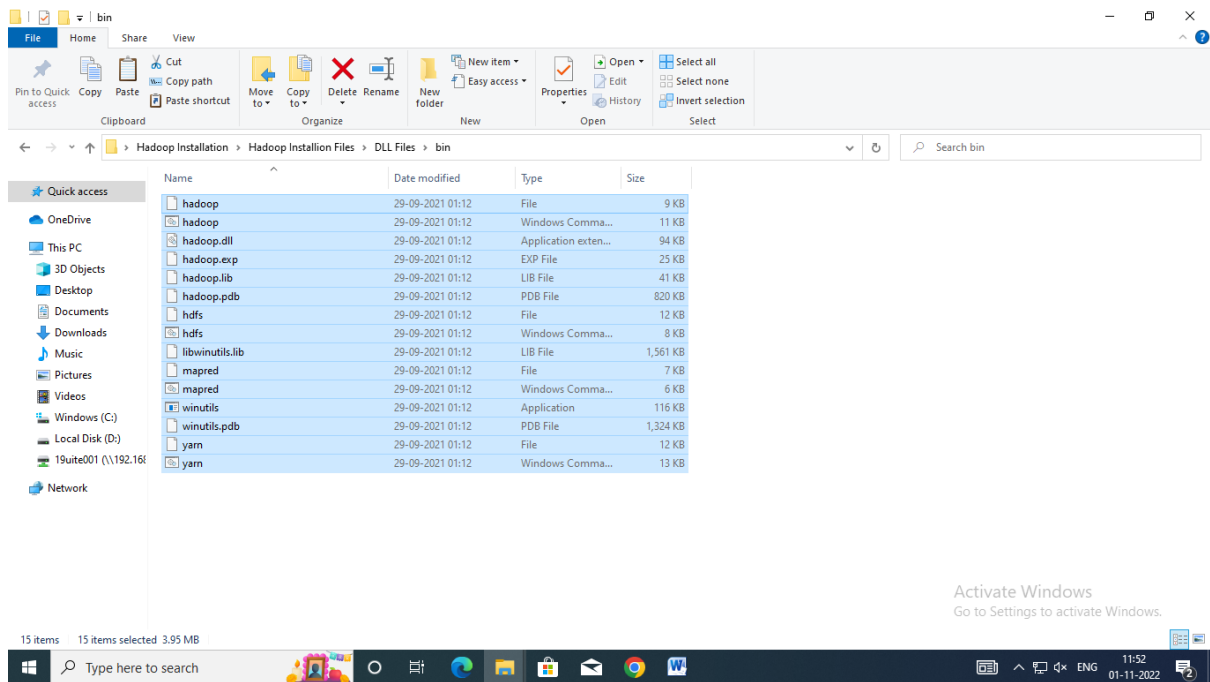


Name : ANANTHAN C P

ROLL NO : 19UITE017

Ex. No : 09

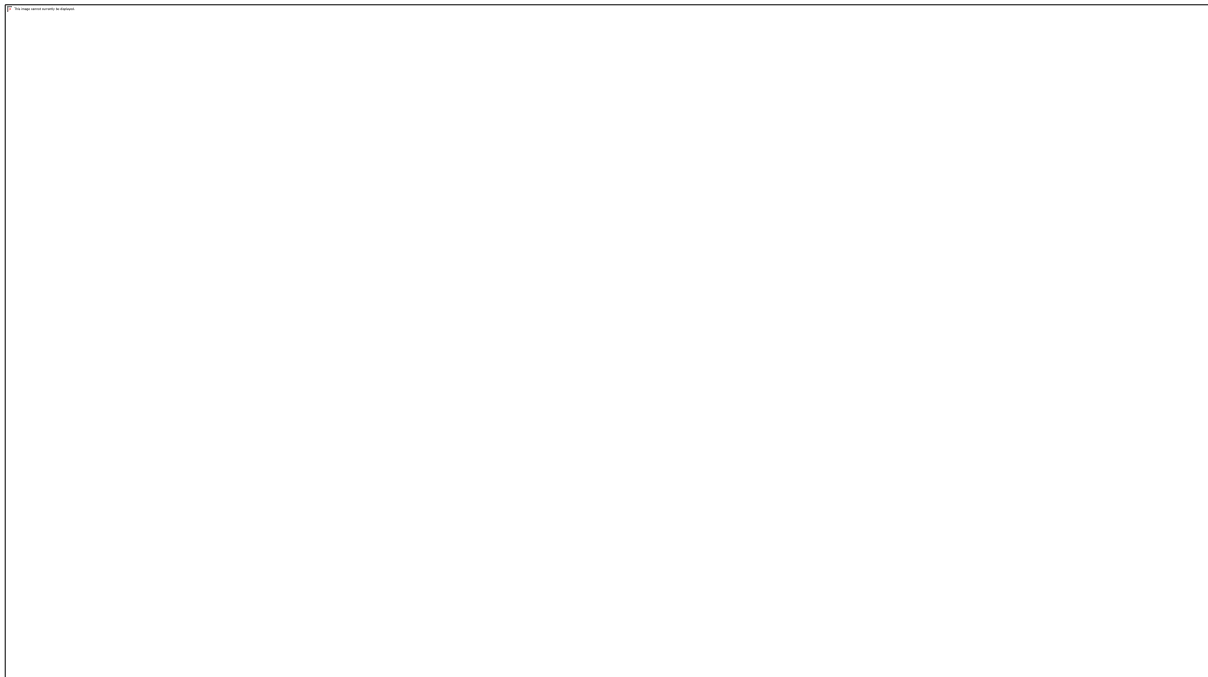
Installation of Single Node Hadoop Cluster



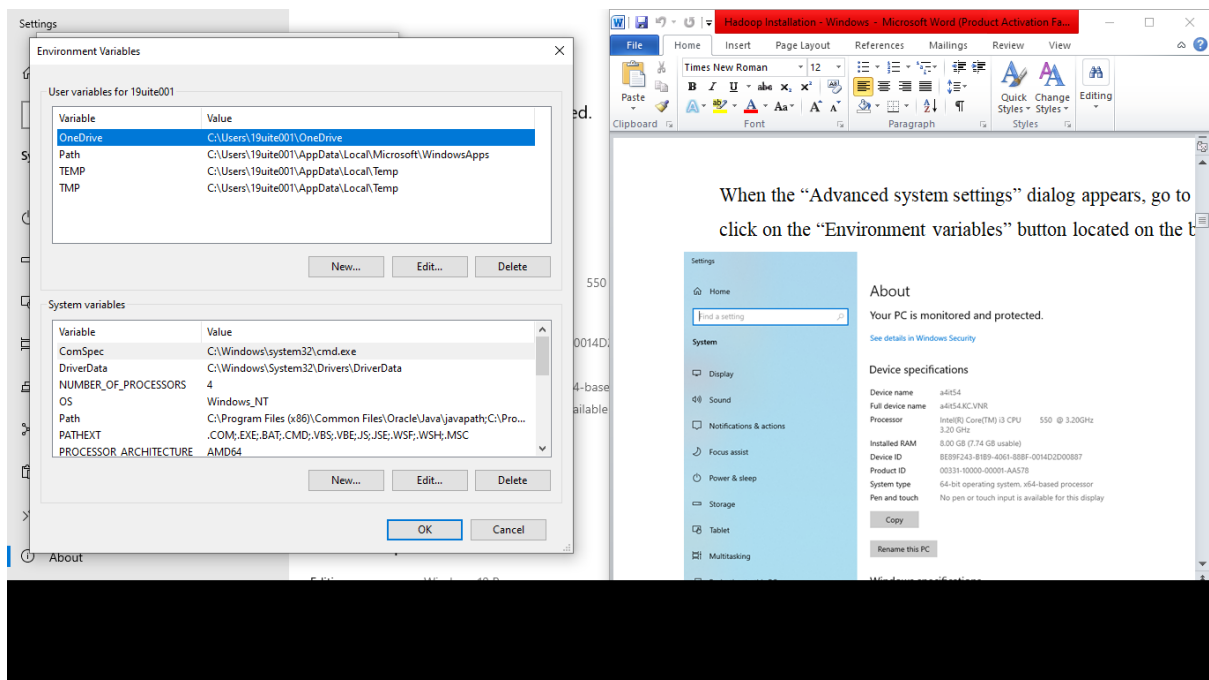
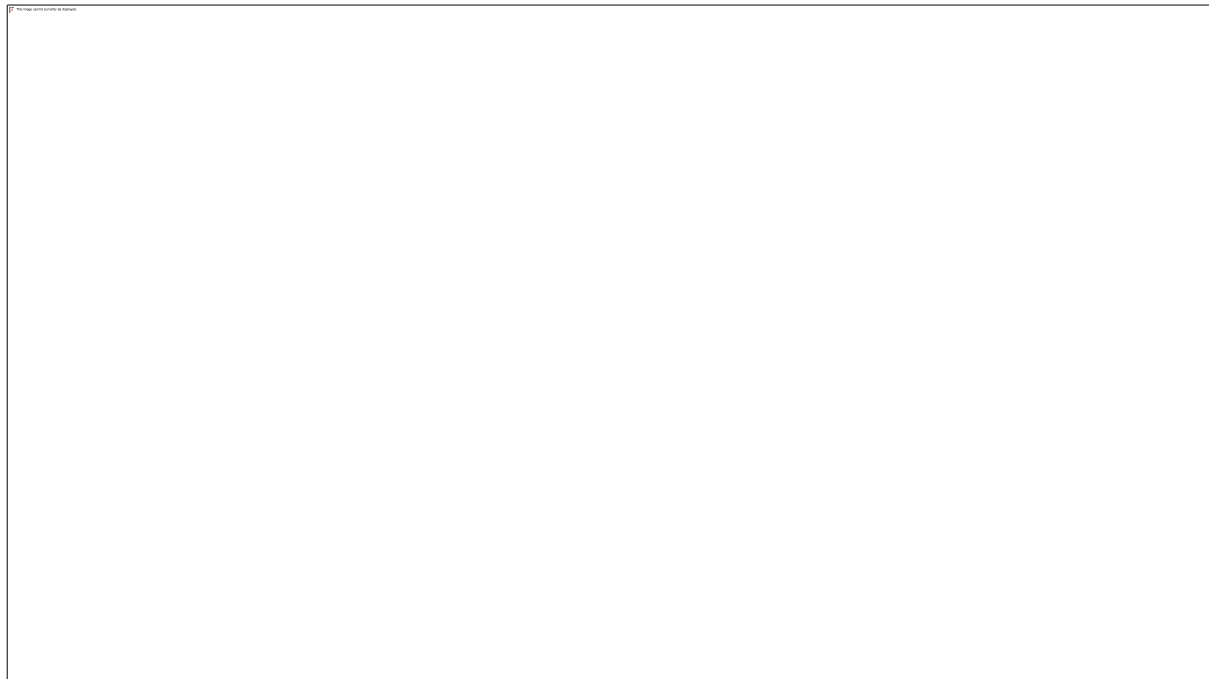
Name : ANANTHAN C P
Ex. No : 09

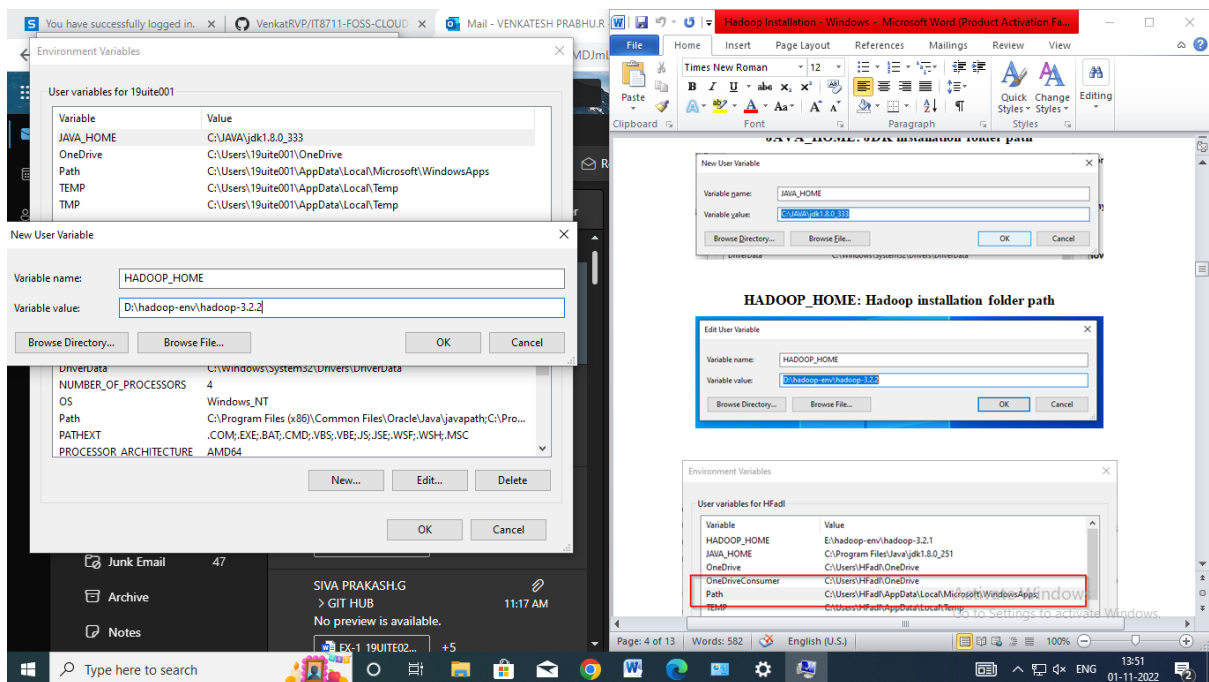
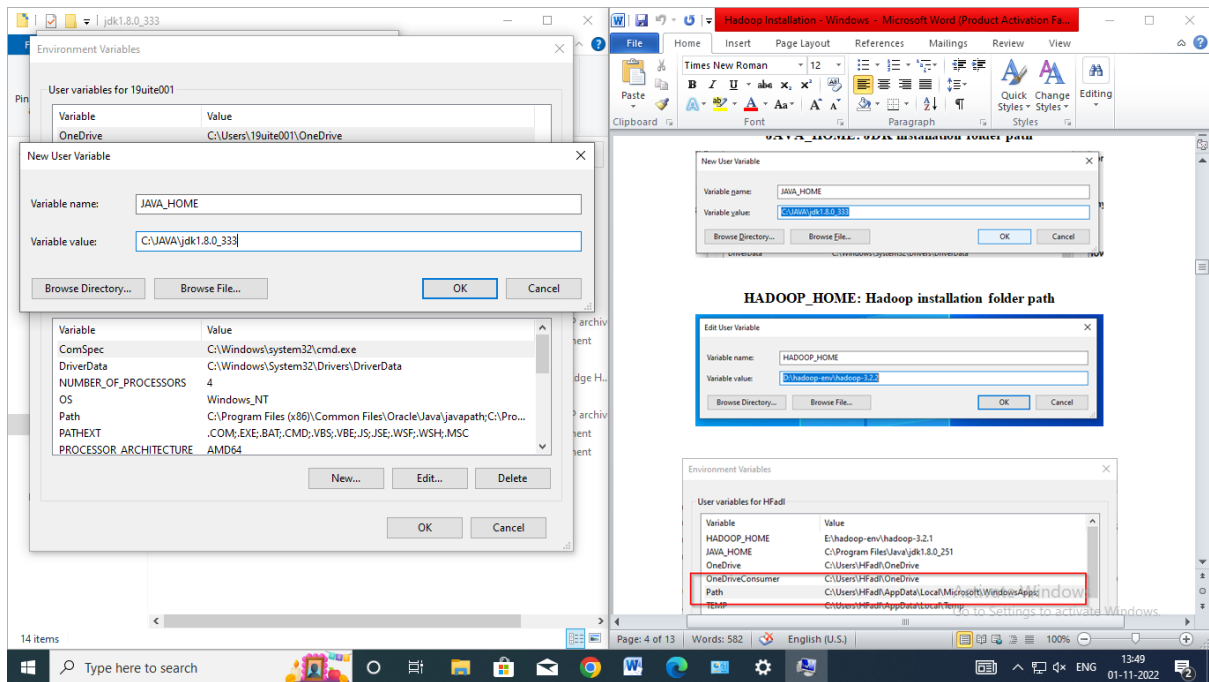
ROLL NO : 19UITE017

Installation of Single Node Hadoop Cluster



Installation of Single Node Hadoop Cluster



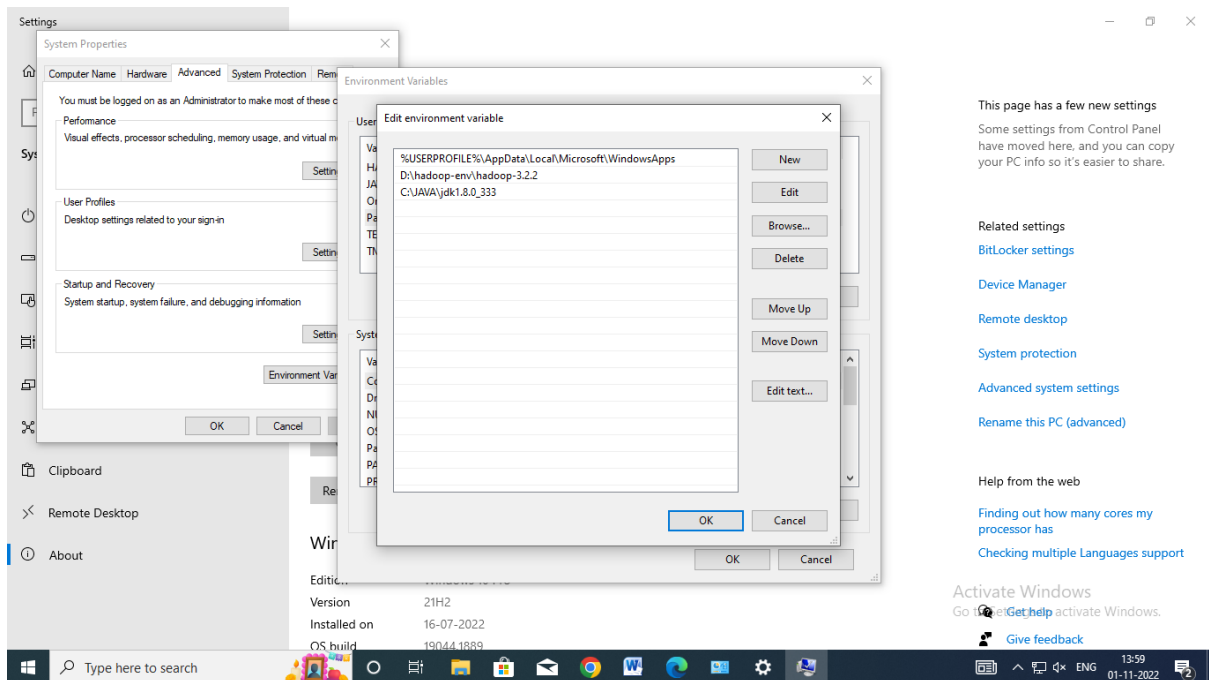
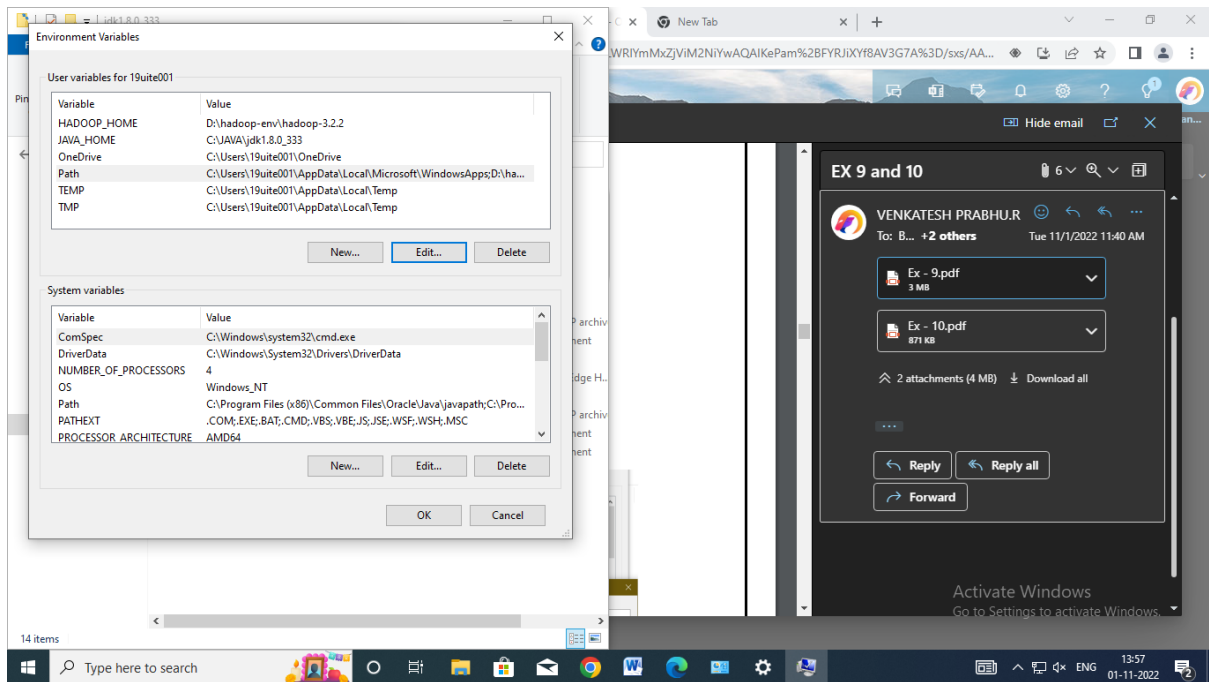


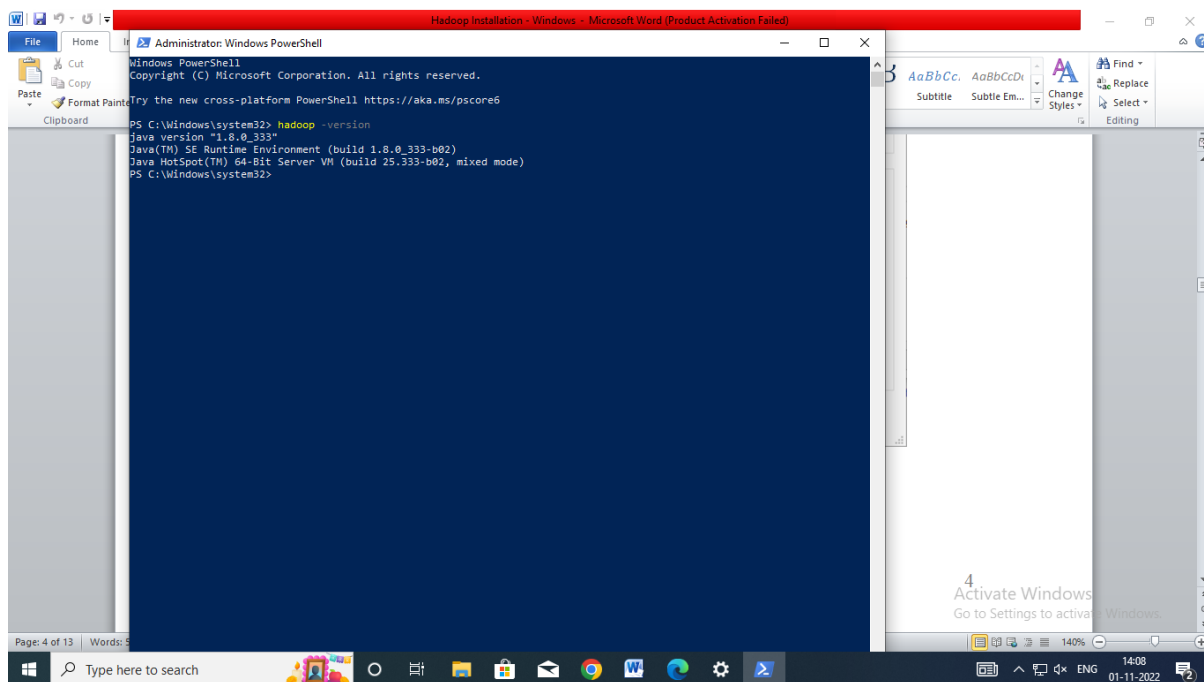
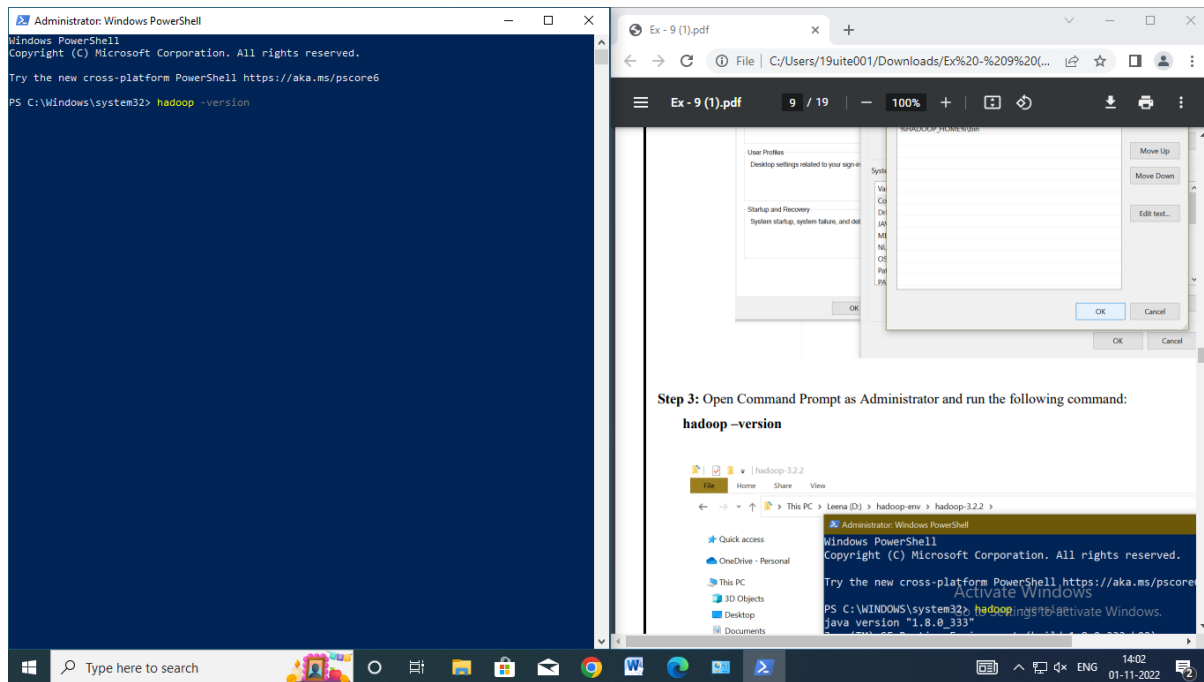
Name : ANANTHAN C P

ROLL NO : 19UIE017

Ex. No : 09

Installation of Single Node Hadoop Cluster



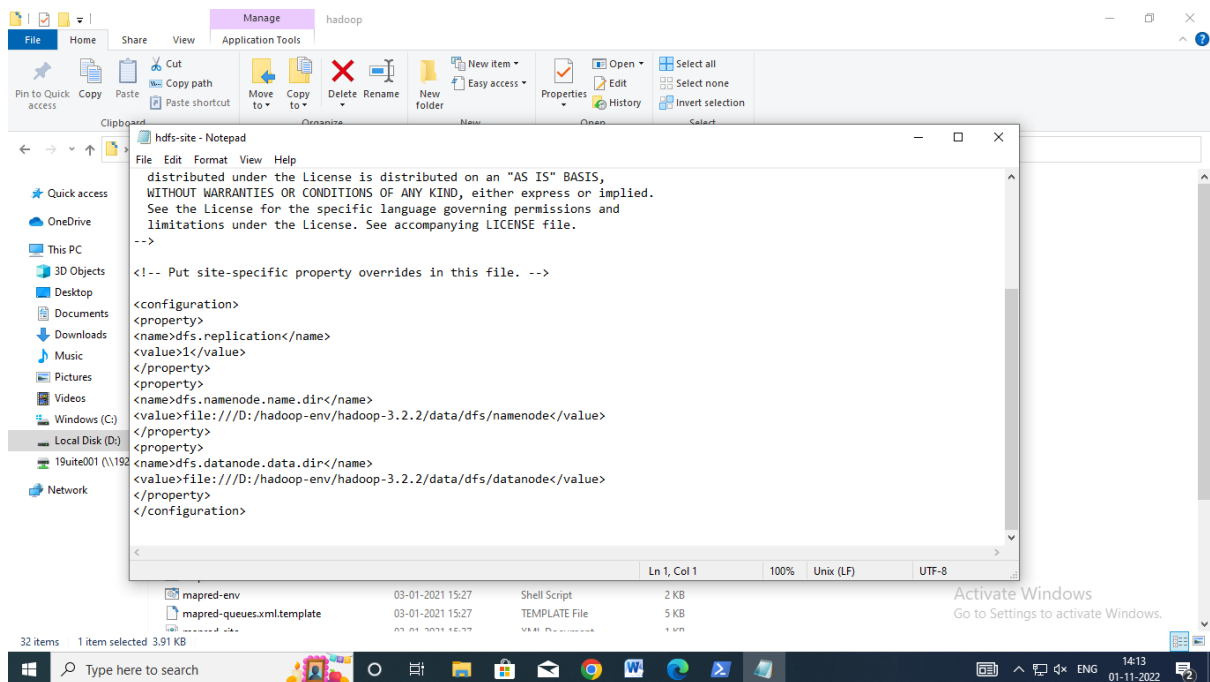
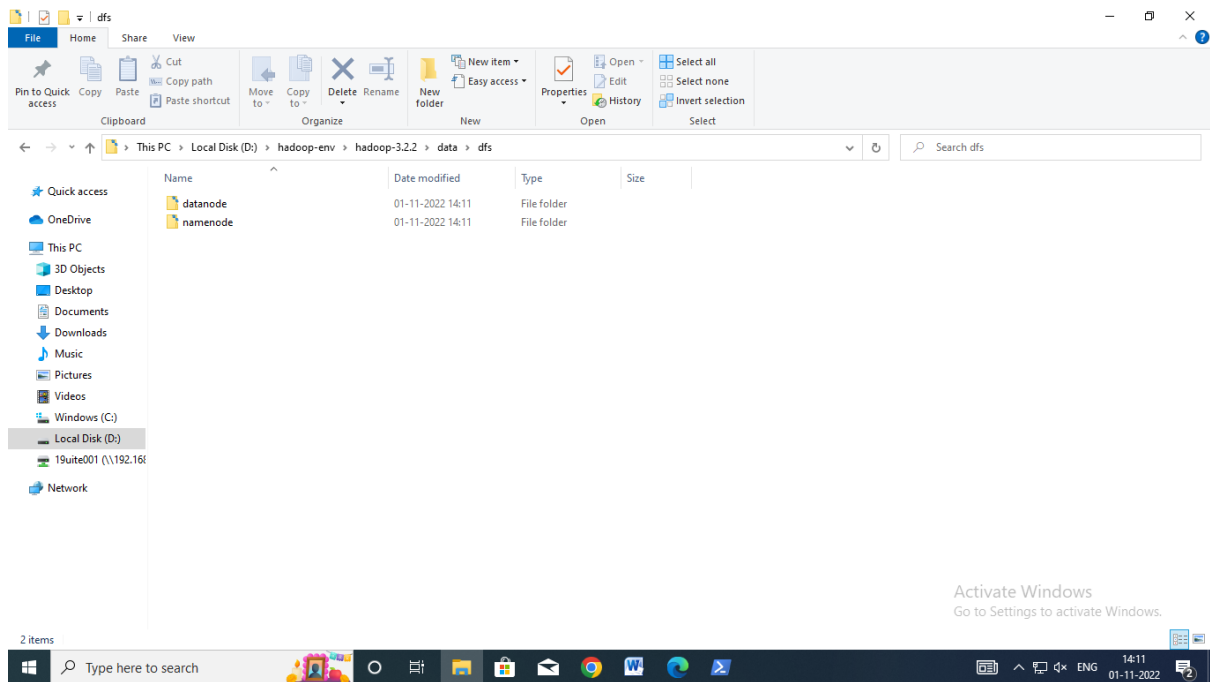


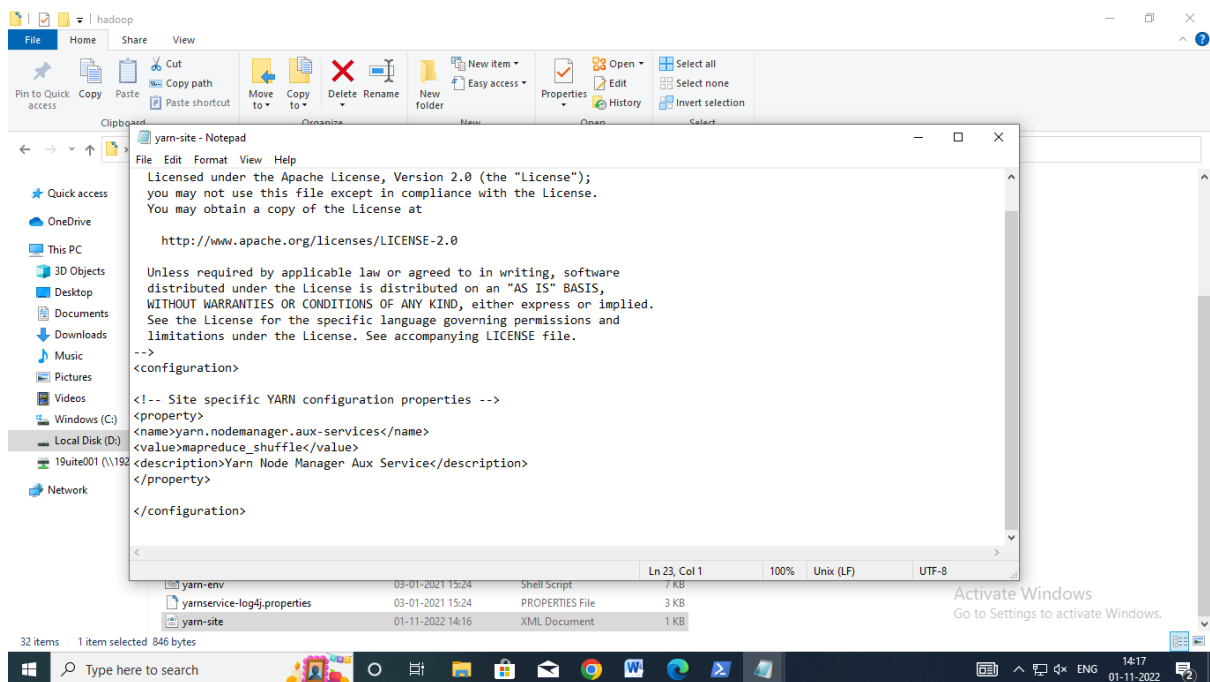
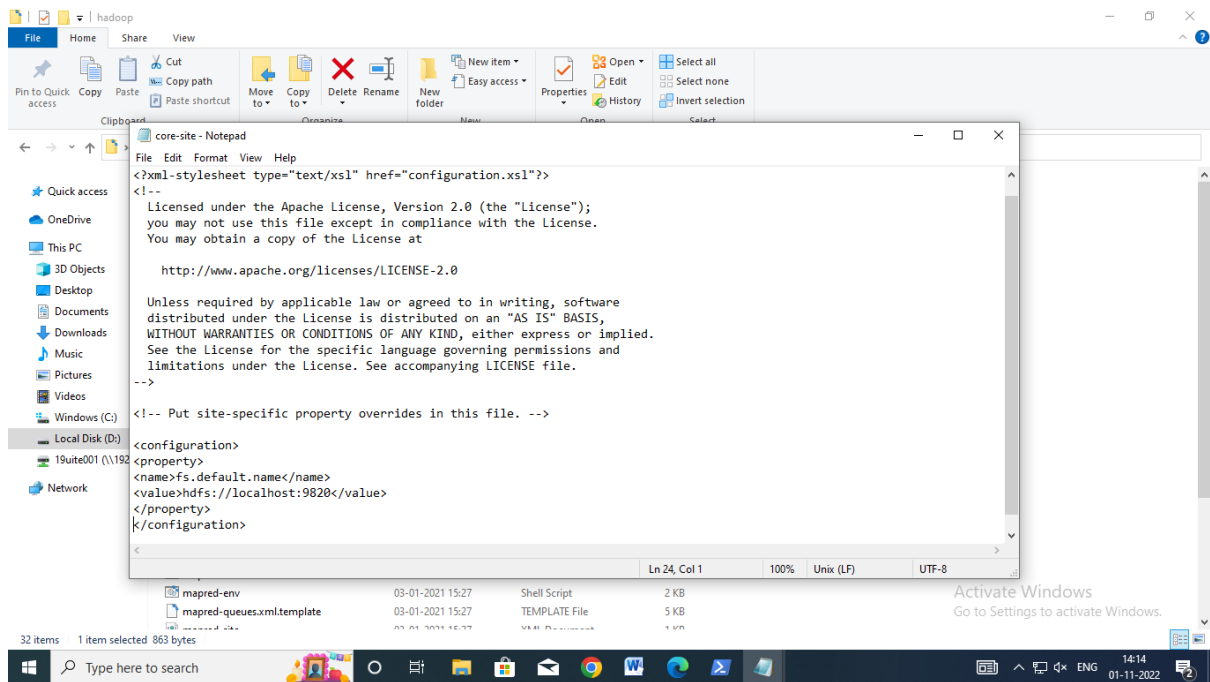
Name : ANANTHAN C P

ROLL NO : 19UITE017

Ex. No : 09

Installation of Single Node Hadoop Cluster





```
Administrator: Windows PowerShell
2022-11-01 14:17:50,795 INFO blockmanagement.BlockManager: maxReplication = 512
2022-11-01 14:17:50,797 INFO blockmanagement.BlockManager: minReplication = 1
2022-11-01 14:17:50,797 INFO blockmanagement.BlockManager: maxReplicationStreams = 2
2022-11-01 14:17:50,798 INFO blockmanagement.BlockManager: redundancyRecheckInterval = 3000ms
2022-11-01 14:17:50,798 INFO blockmanagement.BlockManager: encryptDataTransfer = false
2022-11-01 14:17:50,799 INFO blockmanagement.BlockManager: maxNumBlocksToLog = 1000
2022-11-01 14:17:50,818 INFO namenode.FSDirectory: GLOBAL serial map: bits=29 maxEntries=536870911
2022-11-01 14:17:50,818 INFO namenode.FSDirectory: USER serial map: bits=24 maxEntries=16777215
2022-11-01 14:17:50,820 INFO namenode.FSDirectory: GROUP serial map: bits=24 maxEntries=16777215
2022-11-01 14:17:50,821 INFO namenode.FSDirectory: XATTR serial map: bits=24 maxEntries=16777215
2022-11-01 14:17:50,878 INFO util.GSet: Computing capacity for map INodeMap
2022-11-01 14:17:50,878 INFO util.GSet: VM type = 64-bit
2022-11-01 14:17:50,980 INFO util.GSet: 1.0% max memory 889 MB = 8.9 MB
2022-11-01 14:17:50,981 INFO util.GSet: capacity = 2^20 = 1048576 entries
2022-11-01 14:17:51,002 INFO namenode.FSDirectory: ACLs enabled? false
2022-11-01 14:17:51,004 INFO namenode.FSDirectory: POSIX ACL inheritance enabled? true
2022-11-01 14:17:51,004 INFO namenode.FSDirectory: XAttrs enabled? true
2022-11-01 14:17:51,006 INFO namenode.NameNode: Caching file names occurring more than 10 times
2022-11-01 14:17:51,021 INFO snapshot.SnapshotManager: Loaded config captureOpenFiles: false, skipCaptureAccessTimeOnlyChange: false, snapshotDiffAllowSnapRootDescendant: true, maxSnapshotLimit: 65536
2022-11-01 14:17:51,025 INFO snapshot.SnapshotManager: SkipList is disabled
2022-11-01 14:17:51,034 INFO util.GSet: Computing capacity for map cachedBlocks
2022-11-01 14:17:51,034 INFO util.GSet: VM type = 64-bit
2022-11-01 14:17:51,035 INFO util.GSet: 0.25% max memory 889 MB = 2.2 MB
2022-11-01 14:17:51,036 INFO util.GSet: capacity = 2^18 = 262144 entries
2022-11-01 14:17:51,092 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.window.num.buckets = 10
2022-11-01 14:17:51,092 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.num.users = 10
2022-11-01 14:17:51,094 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.windows.minutes = 1,5,25
2022-11-01 14:17:51,104 INFO namenode.FSNamesystem: Retry cache on NameNode is enabled
2022-11-01 14:17:51,104 INFO namenode.FSNamesystem: Retry cache will use 0.03 of total heap and retry cache entry expiry time is 600000 millis
2022-11-01 14:17:51,119 INFO util.GSet: Computing capacity for map NameNodeRetryCache
2022-11-01 14:17:51,119 INFO util.GSet: VM type = 64-bit
2022-11-01 14:17:51,120 INFO util.GSet: 0.029999999329447746% max memory 889 MB = 273.1 KB
2022-11-01 14:17:51,121 INFO util.GSet: capacity = 2^15 = 32768 entries
2022-11-01 14:17:55,001 INFO namenode.FSImage: Allocated new BlockPoolId: BP-349852170-192.168.56.1-1667292475744
2022-11-01 14:17:55,052 INFO common.Storage: Storage directory D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode has been successfully formatted.
2022-11-01 14:17:55,067 INFO namenode.FSImageFormatProtobuf: Saving image file D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\fsimage.cpkt_000000000000000000 using no compression
2022-11-01 14:17:55,393 INFO namenode.FSImageFormatProtobuf: Image file D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\fsimage.cpkt_000000000000000000 of size 401 bytes saved in 0 second
2022-11-01 14:17:56,504 INFO namenode.NNStorageRetentionManager: Going to retain 1 images with txid >= 0
2022-11-01 14:17:56,549 INFO namenode.NameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down NameNode at A41744/192.168.56.1
*****/
PS C:\Windows\system32
```

```
Apache Hadoop Distribution - hadoop namenode
2022-11-01 14:29:54,944 INFO namenode.FSDirectory: Initializing quota with 4 thread(s)
2022-11-01 14:29:54,954 INFO namenode.FSDirectory: Quota initialization completed in 8 milliseconds
name space=1
storage space=0
storage types=RAM_DISK=0, SSD=0, DISK=0, ARCHIVE=0, PROVIDED=0
2022-11-01 14:29:54,960 INFO blockmanagement.CacheReplicationMonitor: Starting CacheReplicationMonitor with interval 30000 milliseconds
2022-11-01 14:29:55,670 INFO hdfs.StateChange: BLOCK* registerDataNode: from DataNodeRegistration(127.0.0.1:9866, datanodeUuid=4b3271a4-dd5a-4845-bd48-257125cab8a1, infoPort=9864, infoSecurePort=0, ipcPort=9867, storageInfo=lv=-57;cid=CD-77652b81-c2c2-4757-a852-7eb42de6e2c5;nsid=819071654;c=1667293173677) storage 4b3271a4-dd5a-4845-bd48-257125cab8a1
2022-11-01 14:29:59,676 INFO net.NetworkTopology: Adding a new node: /default-rack/127.0.0.1:9866
2022-11-01 14:29:59,678 INFO blockmanagement.BlockReportLeaseManager: Registered DN 4b3271a4-dd5a-4845-bd48-257125cab8a1 (127.0.0.1:9866)
2022-11-01 14:30:00,032 INFO blockmanagement.DatanodeDescriptor: Adding new storage ID DS-542e59da-059f-488c-9bd7-8285caa4b561 for DN 127.0.0.1:9866
2022-11-01 14:30:00,145 INFO BlockStateChange: BLOCK* processReport 0x3a72988d42a637ad: Processing first storage report for DS-542e59da-059f-488c-9bd7-8285caa4b561 from datanode 4b3271a4-dd5a-4845-bd48-257125cab8a1
2022-11-01 14:30:00,149 INFO BlockStateChange: BLOCK* processReport 0x3a72988d42a637ad: from storage DS-542e59da-059f-488c-9bd7-8285caa4b561 node DatanodeRegistration(127.0.0.1:9866, datanodeUuid=4b3271a4-dd5a-4845-bd48-257125cab8a1, infoPort=9864, infoSecurePort=0, ipcPort=9867, storageInfo=lv=-57;cid=CD-77652b81-c2c2-4757-a852-7eb42de6e2c5;nsid=819071654;c=1667293173677), blocks: 0, hasStaleStorage: false, processing time: 4 ms, invalidatedBlocks: 0

Apache Hadoop Distribution - hadoop datanode
D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode
2022-11-01 14:29:59,483 INFO checker.DataseVolumeChecker: Scheduled health check for volume D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode
2022-11-01 14:29:59,492 INFO datanode.VolumeScanner: Now scanning bpid BP-1378187979-192.168.56.1-1667293173677 on volume D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode
2022-11-01 14:29:59,496 INFO datanode.VolumeScanner: VolumeScanner(D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode, DS-542e59da-059f-488c-9bd7-8285caa4b561): finished scanning block pool BP-1378187979-192.168.56.1-1667293173677
2022-11-01 14:29:59,544 INFO datanode.VolumeScanner: VolumeScanner(D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode, DS-542e59da-059f-488c-9bd7-8285caa4b561): no suitable block pools found to scan. Waiting 1814399047 ms.
2022-11-01 14:29:59,552 INFO datanode.DirectoryScanner: Periodic Directory Tree Verification scan starting at 1/11/22 6:08 PM with interval of 21600000ms
2022-11-01 14:29:59,571 INFO datanode.DataNode: Block pool BP-1378187979-192.168.56.1-1667293173677 (Datanode Uuid 4b3271a4-dd5a-4845-bd48-257125cab8a1) service to localhost/127.0.0.1:9820 beginning handshake with NN
2022-11-01 14:29:59,707 INFO datanode.DataNode: Block pool block pool BP-1378187979-192.168.56.1-1667293173677 (Datanode Uuid 4b3271a4-dd5a-4845-bd48-257125cab8a1) service to localhost/127.0.0.1:9820 successfully registered with NN
2022-11-01 14:29:59,708 INFO datanode.DataNode: For namenode localhost/127.0.0.1:9820 using BLOCKREPORT_INTERVAL of 21600000msec CACHEREPORT_INTERVAL of 10000msec Initial delay: 0msec; heartbeatInterval=3000
2022-11-01 14:30:00,313 INFO datanode.DataNode: Successfully sent block report 0x3a72988d42a637ad, containing 1 storage report(s), of which we sent 1. The reports had 0 total blocks and used 1 RPC(s). This took 11 msec to generate and 203 ms for RPC and NN processing. Got back one command: FinalizeCommand/5.
2022-11-01 14:30:00,313 INFO datanode.DataNode: Got finalize command for block pool BP-1378187979-192.168.56.1-1667293173677
```

```
Administrator: Windows PowerShell
2022-11-01 14:29:24,973 INFO blockmanagement.BlockManager: maxReplicationStreams = 2
2022-11-01 14:29:24,974 INFO blockmanagement.BlockManager: redundancyCheckInterval = 3000ms
2022-11-01 14:29:24,974 INFO blockmanagement.BlockManager: encryptDataTransfer = false
2022-11-01 14:29:24,975 INFO blockmanagement.BlockManager: maxNumBlocksToLog = 1000
2022-11-01 14:29:25,020 INFO namenode.FSDirectory: GLOBAL serial map: bits=29 maxEntries=536870911
2022-11-01 14:29:25,020 INFO namenode.FSDirectory: USER serial map: bits=24 maxEntries=16777215
2022-11-01 14:29:25,023 INFO namenode.FSDirectory: GROUP serial map: bits=24 maxEntries=16777215
2022-11-01 14:29:25,025 INFO namenode.FSDirectory: XATTR serial map: bits=24 maxEntries=16777215
2022-11-01 14:29:25,053 INFO util.GSet: Computing capacity for map INodeMap
2022-11-01 14:29:25,053 INFO util.GSet: VM type = 64-bit
2022-11-01 14:29:25,058 INFO util.GSet: 1.0% max memory 889 MB = 8.9 MB
2022-11-01 14:29:25,058 INFO util.GSet: capacity = 2^20 = 1048576 entries
2022-11-01 14:29:25,088 INFO namenode.FSDirectory: ACLs enabled? false
2022-11-01 14:29:25,088 INFO namenode.FSDirectory: POSIX ACL inheritance enabled? true
2022-11-01 14:29:25,091 INFO namenode.FSDirectory: Xattr enabled? true
2022-11-01 14:29:25,093 INFO namenode.NameNode: Caching file names occurring more than 10 times
2022-11-01 14:29:25,104 INFO snapshot.SnapshotManager: Loaded config captureOpenFiles: false, skipCaptureAccessTimeOnlyChange: false, snapshotDiffAllowSnapRootDescendant: true, maxSnapshotLimit: 65536
2022-11-01 14:29:25,109 INFO snapshot.SnapshotManager: SkipList is disabled
2022-11-01 14:29:25,116 INFO util.GSet: Computing capacity for map cachedBlocks
2022-11-01 14:29:25,116 INFO util.GSet: VM type = 64-bit
2022-11-01 14:29:25,118 INFO util.GSet: 0.25% max memory 889 MB = 2.2 MB
2022-11-01 14:29:25,119 INFO util.GSet: capacity = 2^18 = 262144 entries
2022-11-01 14:29:25,139 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.window.num.buckets = 10
2022-11-01 14:29:25,138 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.num.users = 10
2022-11-01 14:29:25,139 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.windows.minutes = 1,5,25
2022-11-01 14:29:25,148 INFO namenode.FSNamesystem: Retry cache on namenode is enabled
2022-11-01 14:29:25,149 INFO namenode.FSNamesystem: Retry cache will use 0.03 of total heap and retry cache entry expiry time is 600000 millis
2022-11-01 14:29:25,155 INFO util.GSet: Computing capacity for map NameNodeRetryCache
2022-11-01 14:29:25,155 INFO util.GSet: VM type = 64-bit
2022-11-01 14:29:25,157 INFO util.GSet: 0.029999999329447746% max memory 889 MB = 273.1 KB
2022-11-01 14:29:25,157 INFO util.GSet: capacity = 2^15 = 32768 entries
Re-format filesystem in Storage Directory root= D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode; location= null ? (Y or N) Y
2022-11-01 14:29:33,702 INFO namenode.FSImage: Allotted new BlockPoolId: BP-1378187979-192.168.56.1-1667293173677
2022-11-01 14:29:33,703 INFO common.Storage: Will remove files: [D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\fsimage_0000000000000000000, D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\fsimage_0000000000000000000.mds, D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\seen_txid, D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\VERSION]
2022-11-01 14:29:33,805 INFO common.Storage: Storage directory D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode has been successfully formatted.
2022-11-01 14:29:33,870 INFO namenode.FSImageFormatProtobuf: Saving image file D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\fsimage.cpkt_0000000000000000000 using no compression
2022-11-01 14:29:34,029 INFO namenode.FSImageFormatProtobuf: Image file D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\fsimage.cpkt_0000000000000000000 of size 404 bytes saved in 0 second
2022-11-01 14:29:34,067 INFO namenode.NMStorageRetentionManager: Going to retain 1 images with txid >= 0
2022-11-01 14:29:34,077 INFO namenode.FSImage: FSImageSaver clean checkpoint: txid=0 when meet shutdown.
2022-11-01 14:29:34,077 INFO namenode.NameNode: SHUTDOWN_MSG:
*****
SHUTDOWN_MSG: Shutting down NameNode at 192.168.56.1
*****
PS D:\hadoop-env\hadoop-3.2.2\bin> .\start-dfs.cmd
PS D:\hadoop-env\hadoop-3.2.2\bin> .\start-yarn.cmd
starting yarn daemons
PS D:\hadoop-env\hadoop-3.2.2\bin>
```

```
Apache Hadoop Distribution - yarn_resourcemanager
2022-11-01 14:33:17,342 INFO conf.Configuration: dynamic-resources.xml not found
2022-11-01 14:33:17,347 INFO resourcemanager.AMSProcessingChain: Initializing AMS Processing chain. Root Processor=[org.apache.hadoop.yarn.server.resourcemanager.DefaultAMSProcessor].
2022-11-01 14:33:17,350 INFO resourcemanager.ApplicationMasterService: disabled placement handler will be used, all scheduling requests will be rejected.
2022-11-01 14:33:17,353 INFO resourcemanager.AMSProcessingChain: Adding [org.apache.hadoop.yarn.server.resourcemanager.scheduler.constraint.processor.DisabledPlacementProcessor] to top of AMS Processing chain.
2022-11-01 14:33:17,364 INFO resourcemanager.ResourceManager: TimelineServicePublisher is not configured
2022-11-01 14:33:17,458 INFO util.log: Logging initialized @5556ms to org.eclipse.jetty.util.log.Slf4jLog
2022-11-01 14:33:22,136 INFO server.AuthenticationFilter: Unable to initialize FileSignerSecretProvider, falling back to use random secrets.
2022-11-01 14:33:22,145 INFO http.HttpRequestLog: Http request log for http.request5.resourcemanager is not defined
2022-11-01 14:33:22,159 INFO http.HttpServer2: Added global filter 'safety' (class=org.apache.hadoop.http.HttpServer2$QuotingInputFilter)
2022-11-01 14:33:26,709 INFO http.HttpServer2: Added filter RMAuthenticationFilter (class=org.apache.hadoop.yarn.server.security.http.RMAuthenticationFilter) to context cluster
2022-11-01 14:33:26,710 INFO http.HttpServer2: Added filter RMAuthenticationFilter (class=org.apache.hadoop.yarn.server.security.http.RMAuthenticationFilter) to context static
2022-11-01 14:33:26,711 INFO http.HttpServer2: Added filter RMAuthenticationFilter (class=org.apache.hadoop.yarn.server.security.http.RMAuthenticationFilter) to context logs
2022-11-01 14:33:26,712 INFO http.HttpServer2: Added filter static_user_filter (class=org.apache.hadoop.http.lib.StaticUserWebFilter$StaticUserFilter) to context cluster
2022-11-01 14:33:26,713 INFO http.HttpServer2: Added filter static_user_filter (class=org.apache.hadoop.http.lib.StaticUserWebFilter$StaticUserFilter) to context static
2022-11-01 14:33:26,713 INFO http.HttpServer2: Added filter static_user_filter (class=org.apache.hadoop.http.lib.StaticUserWebFilter$StaticUserFilter) to context logs
2022-11-01 14:33:26,720 INFO http.HttpServer2: adding path spec: /cluster/*
2022-11-01 14:33:26,720 INFO http.HttpServer2: adding path spec: /ws/*
2022-11-01 14:33:26,722 INFO http.HttpServer2: adding path spec: /app/*

Apache Hadoop Distribution - yarn_nodemanager
2022-11-01 14:33:22,283 INFO monitor.ContainersMonitorImpl: Virtual memory check enabled: true
2022-11-01 14:33:22,283 INFO monitor.ContainersMonitorImpl: Elastic memory control enabled: false
2022-11-01 14:33:22,284 INFO monitor.ContainersMonitorImpl: Strict memory control enabled: true
2022-11-01 14:33:22,284 INFO monitor.ContainersMonitorImpl: ContainersMonitor enabled: true
2022-11-01 14:33:22,285 INFO monitor.ContainersMonitorImpl: Container Log Monitor enabled: true
2022-11-01 14:33:24,337 WARN monitor.ContainersMonitorImpl: NodeManager configured with 8 G physical memory allocated to containers, which is more than 80% of the total physical memory available (7.7 G). Thrashing might happen.
2022-11-01 14:33:24,337 INFO containermanager.ContainerManagerImpl: Not a recoverable state store. Nothing to recover.
2022-11-01 14:33:24,375 INFO conf.Configuration: resource-types.xml not found
2022-11-01 14:33:24,376 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.
2022-11-01 14:33:24,383 INFO conf.Configuration: node-resources.xml not found
2022-11-01 14:33:24,384 INFO resource.ResourceUtils: Unable to find 'node-resources.xml'.
2022-11-01 14:33:24,387 INFO nodemanager.NodeStatusUpdaterImpl: NodeManager resources is set to: <memory=8192, vCores=8>
2022-11-01 14:33:24,992 INFO nodemanager.NodeStatusUpdaterImpl: Initialized nodemanager with : physical-memory=8192 virtual-memory=17204 virtual-cores=8
2022-11-01 14:33:25,328 INFO ipc.CallQueueManager: Using callQueue: class java.util.concurrent.LinkedBlockingQueue, queueCapacity: 2000, scheduler: class org.apache.hadoop.ipc.DefaultRpcScheduler, ipcBackoff: false.
2022-11-01 14:33:25,386 INFO ipc.Server: Starting Socket Reader #1 for port 0
2022-11-01 14:33:25,858 INFO pb.RpcServerFactoryPBImpl: Adding protocol org.apache.hadoop.yarn.api.ContainerManagementProtocolPB to the server
2022-11-01 14:33:25,870 INFO ipc.Server: IPC Server Responder: starting
2022-11-01 14:33:25,870 INFO ipc.Server: IPC Server listener on 0: starting
```

```
Administrator: Windows PowerShell
2022-11-01 14:29:25,023 INFO namenode.FSGroup serial map: bits=24 maxEntries=16777215
2022-11-01 14:29:25,025 INFO namenode.FSGroup serial map: bits=24 maxEntries=16777215
2022-11-01 14:29:25,053 INFO util.GSet: Computing capacity for map INodeMap
2022-11-01 14:29:25,053 INFO util.GSet: VM type = 64-bit
2022-11-01 14:29:25,056 INFO util.GSet: 1.0% max memory 889 MB = 8.9 MB
2022-11-01 14:29:25,058 INFO util.GSet: capacity = 2^20 = 1048576 entries
2022-11-01 14:29:25,088 INFO namenode.FSGroup serial map: bits=24 maxEntries=16777215
2022-11-01 14:29:25,088 INFO namenode.FSGroup serial map: bits=24 maxEntries=16777215
2022-11-01 14:29:25,091 INFO namenode.FSGroup serial map: bits=24 maxEntries=16777215
2022-11-01 14:29:25,091 INFO namenode.FSGroup serial map: bits=24 maxEntries=16777215
2022-11-01 14:29:25,093 INFO namenode.NameNode: Caching file names occurring more than 10 times
2022-11-01 14:29:25,104 INFO snapshot.SnapshotManager: Loaded config captureOpenFiles: false, skipCaptureAccessTimeOnlyChange: false, snapshotDiffAllowSnapRootDescendant: true, maxSnapshotLimit: 65536
2022-11-01 14:29:25,109 INFO snapshot.SnapshotManager: SkipList is disabled
2022-11-01 14:29:25,116 INFO util.GSet: Computing capacity for map cachedBlocks
2022-11-01 14:29:25,116 INFO util.GSet: VM type = 64-bit
2022-11-01 14:29:25,118 INFO util.GSet: 0.25% max memory 889 MB = 2.2 MB
2022-11-01 14:29:25,119 INFO util.GSet: capacity = 2^18 = 262144 entries
2022-11-01 14:29:25,138 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.window.num.buckets = 10
2022-11-01 14:29:25,138 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.num.users = 10
2022-11-01 14:29:25,139 INFO metrics.TopMetrics: NNTop conf: dfs.namenode.top.windows.minutes = 1,5,25
2022-11-01 14:29:25,148 INFO namenode.FSNamesystem: Retry cache on namenode is enabled
2022-11-01 14:29:25,149 INFO namenode.FSNamesystem: Retry cache will use 0.03 of total heap and retry cache entry expiry time is 600000 millis
2022-11-01 14:29:25,155 INFO util.GSet: Computing capacity for map NameNodeRetryCache
2022-11-01 14:29:25,155 INFO util.GSet: VM type = 64-bit
2022-11-01 14:29:25,157 INFO util.GSet: 0.029999999329447746% max memory 889 MB = 273.1 KB
2022-11-01 14:29:25,157 INFO util.GSet: capacity = 2^15 = 32768 entries
Re-format filesystem in Storage Directory root= D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\ location= null > (Y or N) Y
2022-11-01 14:29:33,702 INFO namenode.FSImage: Allocated new BlockPoolId: BP-1378187979-192.168.56.1-1667293173677
2022-11-01 14:29:33,703 INFO common.Storage: Will remove files: [D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\fsimage_00000000000000000000, D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\fsimage_00000000000000000000.mds, D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\seen_txid, D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\VERSION]
2022-11-01 14:29:33,805 INFO common.Storage: Storage directory D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode has been successfully formatted.
2022-11-01 14:29:33,870 INFO namenode.FSImageFormatProtobuf: Saving image file D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\fsimage.chkpt_00000000000000000000 using no compression
2022-11-01 14:29:34,029 INFO namenode.FSImageFormatProtobuf: Image file D:\hadoop-env\hadoop-3.2.2\data\dfs\namenode\current\fsimage.chkpt_00000000000000000000 of size 484 bytes saved in 0 seconds
2022-11-01 14:29:34,067 INFO namenode.NNStorageRetentionManager: Going to retain 1 images with txid >= 0
2022-11-01 14:29:34,077 INFO namenode.FSImage: FSImageSaver clean checkpoint: txid=0 when meet shutdown.
2022-11-01 14:29:34,077 INFO namenode.NameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down NameNode at A41T44/192.168.56.1
*****/
PS D:\hadoop-env\hadoop-3.2.2\bin> .\start-dfs.cmd
PS D:\hadoop-env\hadoop-3.2.2\bin> .\start-yarn.cmd
starting yarn daemons
PS D:\hadoop-env\hadoop-3.2.2\bin> jps
5252 NameNode
5600 NameNode
5608 ResourceManager
8264 DataNode
8364 Jps
PS D:\hadoop-env\hadoop-3.2.2\bin>
```

You have successfully logged in. | VenkatRPV/IT8711-FOSS-CLOUD | Mail - VENKATESH PRABHUR - C | Namenode information

← → localhost:9870/dfshealth.html#tab-overview

Hadoop Overview

Overview 'localhost:9820' (active)

Started:	Tue Nov 01 14:29:51 +0530 2022
Version:	3.2.2, r7a3bc90b05f257c8ace2f76d74264906f0f7a932
Compiled:	Sun Jan 03 14:56:00 +0530 2021 by hexiaojiao from branch-3.2.2
Cluster ID:	CID-77652b81-ca2c-4757-a852-7eb42de6e2c5
Block Pool ID:	BP-1378187979-192.168.56.1-1667293173677

Summary

Security is off.

Safemode is off.

1 files and directories, 0 blocks (0 replicated blocks, 0 erasure coded block groups) = 1 total filesystem object(s).

Heap Memory used 84.89 MB of 187.5 MB Heap Memory. Max Heap Memory is 889 MB.

Non Heap Memory used 49.7 MB of 50.9 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

Activate Windows
Go to Settings to activate Windows.

Name : ANANTHAN C P

ROLL NO : 19UITE017

Ex. No : 09

Installation of Single Node Hadoop Cluster

Browser tabs: You have successfully logged in, VenkatRVP/IT8711-FOSS-CLU, Mail - VENKATESH PRABHU, Namenode information, DataNode Information

Address bar: localhost:9864/datanode.html

Navigation: Hadoop Overview Utilities

DataNode on A4IT44.KC.VNR:9866

Cluster ID:	CID-77652b81-ca2c-4757-a852-7eb42de6e2c5
Version:	3.2.2, r7a3bc90b05f257c8ace2f76d74264906f0f7a932

Block Pools

Namenode Address	Block Pool ID	Actor State	Last Heartbeat	Last Block Report	Last Block Report Size (Max Size)
localhost:9820	BP-1378187979-192.168.56.1-1667293173677	RUNNING	2s	10 minutes	0 B (64 MB)

Volume Information

Directory	Storage Type	Capacity Used	Capacity Left	Capacity Reserved	Reserved Space for Replicas	Blocks
D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode	DISK	321 B	223.33 GB	0 B	0 B	0

Activate Windows
Go to Settings to activate Windows.

Taskbar: Type here to search, icons for various applications, system tray showing 14:40 01-11-2022

