

TDT4305 2021 - Assignment 6

solution

Storm

1. Mention four of the main components in Storm and describe their responsibilities and communication with other components.
 - *Spout and bolt ([Storm] Sect. 2)*
 - *Nimbus, Zookeeper, and Supervisor ([Storm] Sect. 2.2.1)*
 - *Workers and executors ([Storm] Sect. 2.2.3)*
 - ...
2. How is parallelism achieved with tasks and executors?
 - *[Storm] Sect. 2.1*
3. What are the two processing semantics and how are they achieved?
 - *[Storm] Sect. 2.3*

AsterixDB

1. Mention four of the main components in AsterixDB and describe their responsibilities and communication with other components.
 - *Node controller and metadata node controller ([AsterixDB1] Sect. 1)*
 - *Algebricks ([AsterixDB1] Sect. 4.2)*
 - *Feed joint ([AsterixDB1] Sect. 4.5, [AsterixDB2] Sect. 5.1)*
 - *Nodegroup ([AsterixDB2] Sect. 3.2)*
 - *Feed adaptor ([AsterixDB2] Sect. 4.1)*
 - *Manager and worker nodes ([AsterixDB2] Sect. 5.2)*
 - ...
2. How is parallelism achieved with Operators?
 - *[AsterixDB1] Sect. 4.1*
3. What are the different ways AsterixDB can deal with a congested pipeline?
 - *[AsterixDB2] Table 2 and Sect. 5.3*