Quiz

Intro to Hadoop

1.	What does laaS provide?	1 / 1 point
	Hardware Only	
	Software On-Demand	
	Computing Environment	
	✓ Correct See <u>this video</u> to review.	
2.	What does PaaS provide?	1 / 1 point
	○ Software On-Demand	
	○ Hardware Only	
	Computing Environment	
	✓ Correct See <u>this video</u> to review.	
3.	What does SaaS provide?	1/1 point
	Software On-Demand	
	○ Hardware Only	
	Computing Environment	
	✓ Correct See this video to review.	
	See and video to review.	
4.	What are the two key components of HDFS and what are they used for?	1 / 1 point
	FASTA for genome sequence and Rasters for geospatial data.	
	NameNode for metadata and DataNode for block storage.	
	NameNode for block storage and Data Node for metadata.	
	✓ Correct	
	See <u>this video</u> to review.	

5.	What is the job of the NameNode?	1 / 1 point
	Coordinate operations and assigns tasks to Data Nodes	
	Listens from DataNode for block creation, deletion, and replication.	
	For gene sequencing calculations.	
	✓ Correct See this.video to review.	
6.	What is the order of the three steps to Map Reduce?	1 / 1 point
	Shuffle and Sort -> Map -> Reduce	
	Shuffle and Sort -> Reduce -> Map	
	Map -> Shuffle and Sort -> Reduce	
	Map -> Reduce -> Shuffle and Sort	
	✓ Correct See <u>this video</u> to review.	
7.	What is a benefit of using pre-built Hadoop images?	1/1 point
	Quick prototyping, deploying, and guaranteed bug free.	
	Guaranteed hardware support.	
	Less software choices to choose from.	
	Quick prototyping, deploying, and validating of projects.	
	✓ Correct	
	See <u>this video</u> to review.	
8.	What is an example of open-source tools built for Hadoop and what does it do?	1/1 point
	Giraph, for SQL-like queries.	
	Zookeeper, analyze social graphs.	
	Giraph, for processing large-scale graphs.	
	Pig, for real-time and in-memory processing of big data.	
	✓ Correct See <u>this video</u> to review.	

	What is the difference between low level interfaces and high level interfaces?	1 / 1 point
	Low level deals with storage and scheduling while high level deals with interactivity.	
	Low level deals with interactivity while high level deals with storage and scheduling.	
	✓ Correct See <u>this video</u> to review.	
10.	Which of the following are problems to look out for when integrating your project with Hadoop?	1 / 1 point
	✓ Task Level Parallelism	
	✓ Correct See <u>this video</u> to review.	
	✓ Infrastructure Replacement	
	✓ Correct See this video to review.	
	✓ Advanced Alogrithms	
	✓ Correct See this video to review.	
	Data Level Parallelism	
	Random Data Access	
	✓ Correct See this video to review.	

13.	What are the two main components for a data computation framework that were described in the slides?
	Node Manager and Container
	Resource Manager and Node Manager
	Node Manager and Applications Master
	Resource Manager and Container
	Applications Master and Container
	✓ Correct
	See this video to review.

1/1 point