Linked in www.linkedin.com/in/naresh-neelam





Databricks Cluster Configurations



Cluster Types





All Purpose Cluster

- Need to created manually
- It is Persistent
- Suitable for Interactive workloads
- Shared by Multiple User
- It is Expensive

Job Cluster

- Automatically Created By Job
- Automatically Terminated at End of Job
- Suitable for Automated workloads
- Isolated just for Job
- It is Cheaper



Cluster Modes



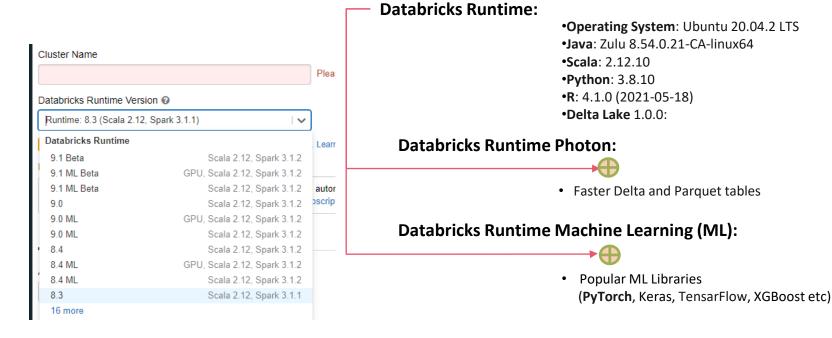
Cluster Name	Cluster Name		Cluster Name	
Test	Test		test	=
Cluster Mode @	Cluster Mode @	_	Cluster Mode @	
Cluster Mode @ Standard	Cluster Mode @ High Concurrency			~

Standard	High Concurrency	Single Node	
Single User Usage	Multiple Users	Single User	
No Process Isolation	Provides Process Isolation	No Process Isolation	
No Task Preemption	Provides Task Preemption	No Task Preemption	
Support for All DSL	Doesn't Support Scala	Support for All DSL	
For Production Workload, Ad-hoc Development	For Interactive Analysis, Ad-hoc Development	Light Weight workload for ML, Data Analysis	



Runtime





Databricks Runtime Light:

- Runtime option for only jobs
- · not requiring advanced features



Auto Termination

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- Terminates the cluster after X minutes of inactivity
- Default value for Single Node and Standard Clusters is 120 Minutes
- High Concurrency cluster do not have a default auto termination set
- Users can specify a value between 10 and 10000 mins as the duration

Auto Scaling

- User specify the min and max work nodes
- Auto Scales between min and max based on the workload
- Not recommended for steaming workloads

VM Type/Size

Memory Optimized, Compute Optimized, Storage Optimized, General Purpose, GPU Accelerated

☐ Enable autoscaling local storage							
Min Workers	Max Workers						
2	8						



Pool



Ready to use instances, reduce cluster start and auto scaling times. You can specify difference pool for driver node and worker nodes, or use same pool for both.

