

Compute Resources 4

Unity Catalog

≥ The main distinction Unity Catalog brings to Cluster configuration is the introduction to Security Mode Parameters.

2 relevant Cluster security modes in Unity Catalog



Single User

≥ This mode clusters can only be used by a single user, who is designated while creating the cluster.
(Designated user can be edited)



User Isolation

≥ Can be shared by multiple users.

≥ Only Python & SQL workloads are allowed.

≥ This setting is independent of any other cluster access control provided by the workspace, and only the designated user can attach to the cluster.

≥ Library installation, init scripts, DBFS fuse mounts are disabled.

≥ Adv.: - Multi-language support, init scripts, library installation DBFS fuse mounts.

≥ Use User Isolation mode for row and column projection, provided by Dynamic Views

Dynamic views are not supported in Single-User Clusters.

≥ Best for Automated Jobs, General Purpose work, needing advanced features.

≥ Modes not supported by Unity Catalog (do not use the below modes if the workloads need to access Unity Catalog)

a) None , b) Table ACL only , c) Passthrough only

≥ For Access to Unity Catalog by a Cluster, the Databricks runtime should be greater than 11.1.

≥ Security Mode config. is available under the Advanced option of Cluster Creation.

⇒ "main" catalog is provided as default, by the metastore creation.

"hive_metastore" named catalog corresponds to the Hive metastore, local to the workspace.

⇒ SQL warehouses is another primary means for accessing the data, as they are the compute resources responsible for running the Databricks SQL queries.

This can be created in SQL persona workspace.

⑤ Simply told :-

Data Science &
Engg Work Space

has
→ Cluster / Compute.

SQL persona workspace → SQL warehouse
for execution