

The following are minimum hardware requirements required for installing SparkPredict<sup>®</sup> on-premises (physical computers or VMs).

**Server sizing for 10 assets, 150 tags per asset**

Component	OS	CPU Cores	RAM	Recommended
SparkPredict Application node (includes Prediction node and UI)	Linux	8	32 GB	750 GB
SparkPredict Pipelines node (can be installed together with Application node)	Linux	8	32 GB	500 GB
SparkPredict Data Ingestion (Kafka) node (three Kafka nodes strongly recommended for high availability)	Linux	4	8 GB	200 GB (per node)
SparkPredict Database node (postgres)	Linux	8	64 GB	3 TB
SparkPredict OSI PI connector node (only if needed)	Windows	4	8 GB	100 GB

**Notes:**  
SparkPredict data aggregator node is used for customers whose assets stream data from OSI PI systems. If there are assets that stream data into any other system, please contact SparkCognition for requirements on the data aggregator node.

**FIGURE 1**  
SparkPredict<sup>®</sup> Architecture

