



## TECHNICAL REQUIREMENTS

### I. AERA VIRTUAL MACHINE

Aera Virtual Machine (“AVM”): Each AVM represents a reserved instance of Aera Decision Cloud™ services, resources and capacity allocated to Customer’s Aera environment. AVM sizing is dependent upon the technical scope covered by Customer’s Aera environment. Each AVM includes: analytics services; data science services; modeling services; process services; visualization services; Aera Decision Cloud Workbench services; Aera Mobile services; and Aera Voice services. Each AVM includes 128 GB of memory and 16 vCPU per reserved instance.

As a general rule for sizing and measure of capacity:

- 1 AVM for every 2 million GB/Hours per year of DDM memory
- 1 AVM for every 300,000 vCPU/hours per year of Decision Cloud compute
- 1 AVM for every 100 daily active users
- 1 AVM for every 2 Optimization Tokens
- 1 AVM for every 300,000 GB/hours per year of Calc PODs
- AeraChat and Agentic are not included in AVMs, hence excluding from sizing

### II. NON-PRODUCTION ENVIRONMENT

- QA / UAT AVMs are limited to non-production usage and to weekly data refreshes.
- For a full replica of the Production environment Decision Data Model in Non production environments, the number of AVMs has to be equal to the number of production AVMs.

### III. AERA AGENT

Resource	Requirements
VM	Recommended to run 1 agent per VM for production, can go up to 2 agents per VM (in UAT) can accommodate each agent’s memory and CPU requirements.
CPU	VM should have at least 4 cores
RAM	VM should have at least 16GB RAM.
HDD	Each agent should be allocated 200 GB of free hard drive (disk space) SSD (Recommended) Balanced SSD as well HDD are compatible
Memory Considerations	<p><b>Agent Process:</b> Minimum 8GB upto 12GB depending on Workload. (Heap size settings)</p> <p><b>SAP Workloads:</b> When using SAP allow for 50% additional memory overhead above the Agent JVM Process. E.g. 8GB JVM + 4GB = 12GB memory requirement.</p> <p><b>Extended Dataset Drivers:</b> When using Parquet or similar tools, allow for enough memory to fully load the remote datasets in memory. This is dependent on workloads, and concurrency.</p>
Scheduling Constraints	Ensure background infrastructure/system scanning is scheduled outside of EP running hours.
OS Version	Linux(recommended): Ubuntu Linux 22.04 LTS or later RedHat Linux 8.8 or later
Network Bandwidth	At least 10Gbps
	CPU and Memory parameters may need adjustments based on integration patterns and data size. These recommendations are valid for most integrations