HCL CDP v12.1.8 Sizing Guide

Contents

Chapter 1. HCL CDP Hardware Sizing Details

This section recommends hardware configuration for HCL CDP optimized to handle **100 Transactions Per Second (TPS).**

This hardware sizing guide outlines the recommended system requirements for HCL CDP designed to handle **100 Transactions Per Second (TPS)**.

The provided configuration has been tested to support the desired TPS, ensuring high availability, fault tolerance, and optimal resource utilization under typical workloads. This guide will help in selecting the appropriate hardware components— such as CPU, memory, storage, and network resources—required to meet performance benchmarks and provide a smooth operational experience.

Disclaimer - This guide illustrates the minimal hardware sizing requirement, based on various assumptions. This guide does not replace the need for specific Infrastructure details before the deployment. The mentioned consumptions are based on a specific scenario and hardware. Proper estimation should be done before buying the hardware. On top of the suggested hardware, appropriate buffer should be added for any expected peak/future load.

Table 1. Master Node Hardware Configuration

Attribute	Capacity	Allocatable
CPU	12	11500m
Ephemeral Storage	261553132Ki	239973624229
Hugepages (1Gi)	0	0
Hugepages (2Mi)	0	0
Memory	32865360Ki	31714384Ki
Pods	250	250

Table 2. Worker Node Hardware Configuration

Attribute	Capacity	Allocatable
CPU	16	15500m
Ephemeral Storage	313981932Ki	288292006229
Hugepages (1Gi)	0	0
hugepages (2Mi)	0	0
Memory	32864336Ki	31713360Ki
Pods	250	250