## **Security HW Assist**

Next (from 25Jan RM call): Rewrite as guidance with recommendations on what to do to get the advantages.

Text WIP before creating PR:

PR #3319

## Chapter 7 (after Platform Access, before Workload Security)

## Security HW Assist for Data in Use

Server hardware architectures offer various technologies to assists protecting data in use. From enablement point of view, those technology approaches can be divided into two categories:

- · Those exposed as node labels on virtualized software infrastructure, when scheduling can be influenced by those labels:
  - Memory encryption on level of physical server
  - Memory encryption on level of VMs: Where hypervisor manages encryption keys.
- That also requires application modification, and while scheduling the application mapping of HW-support to the application:
  Secure enclaves within application: To isolate specific application code and data in memory, which are designed to be protected from processes running at higher privilege levels like OS and hypervisor.