Operating system model

- Applications are separated from the OS.
- The OS kernel code runs in a privileged processor mode (kernel mode).
- Application code runs in a non-privileged processor mode (user mode).
- When a user-mode program calls a system service, the processor executes a special instruction that switches the calling thread to kernel mode. When the system service completes, the OS switches the thread context back to user mode and allows the caller to continue.

Operating system model

- Using WHQL, virtualization-based security, the Device Guard and Hyper Guard features.
- Embodying basic object-oriented design principles but is not an object-oriented system in the strict sense.