CC Practical 7

They run directly on the hordware of a physical server, withour needing on indalying operating system.

High Performance and efficiency: By occasing hard wave directly, bare-metal improspersions minimize overlead, which improves performance and efficiency compared to Type 2.

* Enhanced Security: It suduces attack surface,
Making have - metal hypervisors more secure.

* Common Examples: HHA V Mware Est, Microsoft Hyper-V and Xen one widely used bare mend hypervisors.

* Rosource Allocation and Managnest.

2) Type O hypervisors

1. Integrated with Firmware: one embedded directly into hardware or firmware, allowing for very low level control over resources.

2 Optimised for high Performance: Deliver extremely high performance with minimal overlead.

Reliability and fault Tolerance: They offer high levels of Heliability and fault Tolerance which is crucial for large scale entreprises

4. Support for Multiple operating systems.

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4 VMware

It is the leading provider of virtualization and cloud computing solutions.

* YMware's Plagship products vSphere and ESXi wie 1/1/21

bare metal hypervisors.

NMWARE ESX: 13 installed directly on physical Rardware to manage Virtualized resources, making It highly efficient for data center environments * VMWARE offers desktop virtualization modules like work station and Fusion. These able Type 2 Rypervisors meaning they run on the of a host of useful for development, twing and running multiple oses on a single desk life.

* YMWARE extends virtualization into cloud environments diflogments across platforms like AWS, Azure,

5 Virtual Box

Oracle Virtual Box is a popular open = source eross platform virtualization hot that allows users to run multiple operatoring systems on a single machine

* It is a type 2 hyporvisor meaning it runs on top of an existing Rost operating system rather than directly on hardware.

* Virtual Box supports . a wide stage of Post and guest operating systems including various versions of Mindows, Linux, macos

* Virtual Box is open source under GINU which makes it there for personal and educational use.