

an wahrich the viortual machine The machine is known as host machine is created sucheneas each viortual machine is refference mechine. as a great Viortualized School Toraditional Schub lone effact high fort Advantages of Viortualization · Resource Utilization
· lancers the cost of It physical infrastructure
· remote eccess · Figh availability
· Scalability
· Scalability
· Tealatish: Each VM appointes independently
· Reliability: If one VM stops it doesn't affect others
· Security and reduces cost on maintenance
· Makes it possible to nun multiple
applications and various operating
systems on the same SFRVER lat the
· and time. quickly rigrated or restarted on altornale Disadvantages of Viertualization · Performance : and slightly enduce.
· Conflexity
· Security risks

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The state of the s
Single point of failure licensing losts Vendon lock in
Vendor lock in
This Virtual machine is managed
software or firmulars which is known
This Virtual machine is managed by a software or firmulars which is known hyperrisser. VMM (Virtual Nochino Monitson)
Virtual Machine is a software which is enulation of a physical computer best in real is a part of host computer
envlation of a physical computer but
in a part of host computer
The hykervilor is a firmulare or love-
The state of the tests as a VM Manages
oberatina entan
It assigns the amount of time and wear the applications and speciating system have can use the processor and other resources
the brosesses and stress system have sen us
VM 2 VM 3
[05] [05] [05]
Viertual Hardyeare (Vier Hard) Vier Harr
typervisor
Physical Haerdness
Address of the state of the sta
Escarple- Mreare resphere [E5 Xi, Microsoft Ayber-V, Litrix Hypervisor, Oracle M Virtual Box; ets
Oracle M Viertual Box; etc.

Lohy hyperview / banefits of hyperview 2- Havehoure Abstraction . Regarde Allocation Taulatian . Management . Support PAGE NO .: DATE: DATE:
Type 1 Hypervisor (Bare-metal Hypervisor
It suns directly on the physical hardus of scorver and does not need host operation System to interact with hardware and device
tie installed directly anto the physical hardulare which offers high performance
Type 2 Hypervisor (Hasted Hypervisor)
Tt runs an host Operating system. This news an the host sperating system for hardulare and devite access.
- Ex - Oracle VM Viertual Boss, VM neare Workstation, etc.
Criteria Type 1 Type - 2
Jean Bare Metal Vative Hastal Virtualization Hardware Viert. 35 Viert.

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	on the hules	applications		
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Talability	Better Scalability			
ace	Calability	Not		
		So much become		
		its resilience		
The second secon	11	the underlying of		
System	Has direct access to hardneare along with Viortual Machines it hosts	Not so much beganse of its resilience on the underlying of.		
Independence	hardusare al	The accord to diere.		
o lewell	Violing 1 / Long with	the access the host		
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Performance.	14.	in the second se		
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Security	More Seewere	1		
0	The second of th	Jess, as any possiblen		
		in the os affect		
	Maria Serval	Jess, as any possiblen in the os affect the entire system		
Different methodologies & sos techniques to achieve - vierturalization.				
Methodologies & so techniques				
To achieve vierturalization.				
(i) 1 11 11	tholigas arrange	and with in		
full Via	tualization			
The hypervisor creates a complete viertual				
replica of the physical has duos so				
fuest sheer ties quetana anning within vist.				
mach. That the bas vistualised				
The hypervisor creates a complete violate replica of the physical handware. Guest speciating systems aunting within vist. Mach. and unarears that they kno virtualized and interact with the violated hardware as if the sisted hardware.				
it was the sical has a say				
The second second	your landwate.			

VMJ VMM (Kast Hard) The hyperison teranelates the instructions forcer-qual sporating system to the violated head. Esc. Mueare Esx; Hyper-WV, Xen rete 2 Partial Viertualization vierteali leatures se extensions are installed in (1) la instead al completely envloting the hardreare, VM5. Share CIV flatures except some specified features which are pravided to user using interess Hence Partial is also known as containerigation of the state of the st 3 Para Virtualization It is a technique that involves modifying the guest speciating system to be ansare of the viertualized environment. Guest speciating systems are modified to use special hypercall sor hypercall - like interposits communicate with the hypercisor and access viertualized handreare directly.

