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1. Oui Difference between virtualization and Containerization?

Aui> The Difference between virtualization and Containerization

aue:->

| | | Asiea | Vieitualization | Containeuization |
|---|------|-----------------------|---|--|
| | (1,) | Isolation | Ruovides Complete isolation from the host operating System and the Other VMs | Typically provides lightweight isolation from the host and other containers but doesn't provide as strong a Security boundary as a VA |
| > | (2.) | Operating System | Runs a Complete operating System including the Kernel, thus requiring more System resources Such as CPU, memory and Storage. | Runsthe uses - mode portion of an Os, and Can be tailored to Contain just the needed Services for your app using fewer System resources. |
| | | Guest Compatibili- | Run just about any Os inside the viertual | Runs on the Same Os Version as the host |

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| | (4.) | Deployment | Vietualization | Containerization |
|-----|------|------------|-----------------------------|----------------------------|
| | | | Deploy individual VMe | Deploy individual Contain |
| | | | by using Hypervisor | news by using Docker or |
| | | | Software | deploy multiple Containers |
| | | | V | by using an Ouchestroior |
| | | | | Such as Kubernets. |
| (6) | | D 0 | 0 1 1 1 10 | |
| | (5.) | | use a vivitual hand disk | Use local dés ktor local |
| | | Storage | (VHD) for Local Storage for | Storage for a Single mode |
| | | | a Single VM or a Server | or SMB for Storage Shaved |
| | | | Message Block (SMB) file | by multiple modes or |
| | | | Shace for Storage Shaued | Servers. |
| | | | by multiple Servers | |
| | (6.) | Load | Virtual Machine load | An Ourchestrator Can |
| | | | balancing is done by | automatically Start or |
| | | 0 | eunning VMs in other | Stop Containers on cluster |
| 9 | | | Servers in a failover | nodes to manage |
| | | | Cluster | changes in load and |
| | | | | availability. |
| | | | | V |
| | | Networkin | use Virtual network | uses an isolated |
| | | | adapters adapters | view of a virtual Network |
| | | | | adapters. Thus, perovides |
| | | | | a little less viortuali- |
| | | | | ration. |
| | | | | |