



UDS Enterprise

VDI with UDS Enterprise and Proxmox

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About UDS Enterprise

UDS Enterprise is a multiplatform connection broker for:

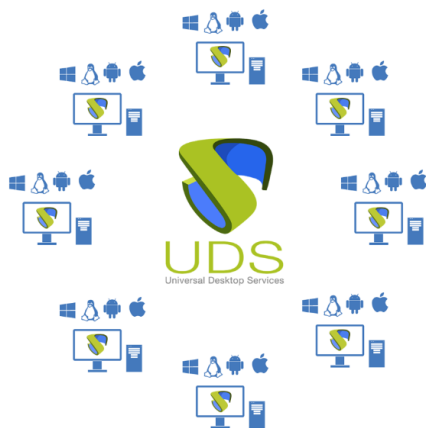
- VDI: Windows and Linux virtual desktops administration and deployment
- Windows and Linux app virtualization
- Desktop services consolidation
- Remote access to physical and virtual devices

UDS Enterprise is ideal for managing workstations because, among other functions, it allows you to perform the following tasks:

- Manage the life cycle of the endpoint
- Administer and manage Windows and Linux virtual desktops, virtualized applications and IP services deployed on different platforms from a single console
- Connect users and user groups of different authentication systems at the same time with virtual desktops and different IP services
- Connect users with remote desktop services by enabling one or more connection protocols at the same time
- Define policies for the use of deployed virtual desktops or other resources
- Deploy template-based virtual desktops
- Secure access from WAN
- Remote access without the need for client software
- Remote access from any web browser that supports HTML5

UDS Enterprise functionalities

- Scalable platform. It supports configurations in high availability by deploying several UDS Enterprise brokers in cluster
- Unlimited number of configurations thanks to its additional module management system and the definition of configuration variables on two levels:
 - Definition of configuration variables at system level
 - Definition of independent module configuration variables
- Virtual desktop cache system in two levels for fast connection
- Management of unlimited services (Microsoft Hyper-V, Microsoft Azure, VMware vSphere, Nutanix Acropolis, OpenNebula, OpenStack, Proxmox, Proxmox, Terminal Server...)
- Unlimited user and device authentication systems (AD, Microsoft Azure Active Directory, eDirectory, LDAP, SAML, internal authentication system, authentication by IP)
- Log visualization system and system statistics
- Deployment of virtual desktops in multiple hypervisors at the same time and managed from a single UDS Enterprise broker
- Virtualization of application sessions
- Deployment of highly scalable services based on SOA architecture





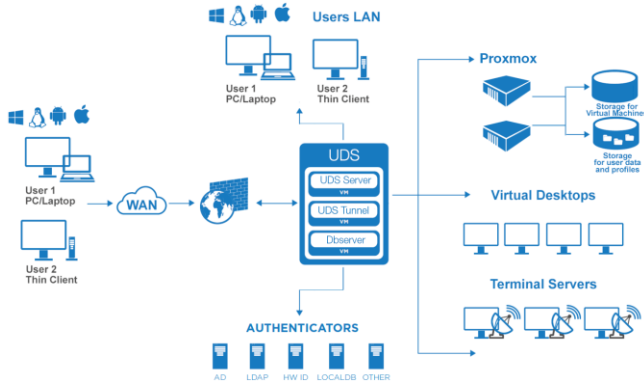
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Architecture UDS & Proxmox

Importing UDS Enterprise into Proxmox is carried out by simple steps, since the different components are provided in Virtual Appliance format.



Through these very intuitive instructions, the UDS Enterprise components are hosted on the Proxmox platform on which the virtual desktops are going to be deployed.

Having completed the hosting phase and following a simple configuration process, the UDS Enterprise components go from being independent elements to forming a user station management platform, integrating themselves with the Proxmox platform on which the virtual desktops are to be deployed.

Once the previous phases have been completed, we find a robust and efficient virtual desktop platform that is prepared to administer and manage the virtual desktops deployed on Proxmox, with the virtual desktops now ready for users to connect to them.

UDS Enterprise components

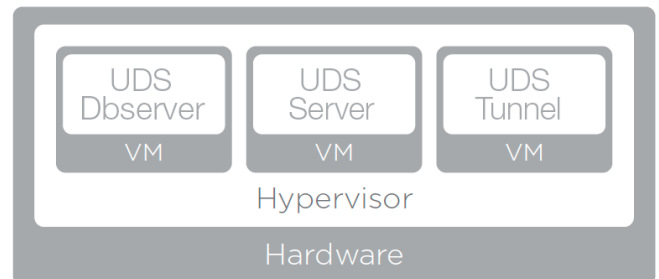
UDS Server (Broker). This is the software that mediates among connection clients and service providers. This is the basic element of UDS, as it performs the functions of connection broker to the desktop services and enables the administration and management of virtual desktop platforms defined as implemented services.

UDS Tunnel. Software that establishes secure connections to desktop services through WAN. It also provides HTML5 access to the services.

UDS Observer. This component is responsible for storing all system UDS data, such as service providers, authenticators, connectivity... and all the information needed to generate statistics.

UDS Actor. This software performs the communication and interface functions for transmitting data (virtual desktop status, machine name...) and commands among the broker and the desktop services managed by UDS.

UDS Client. This software allows the connection to the connection protocol to run desktop services.



CPU



MEMORY



NETWORK



STORAGE



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Full Open Source solution

By integrating with Proxmox, a full Open Source solution to manage and deploy virtual desktops is achieved.

The Proxmox / UDS Enterprise solution incorporates a series of characteristics and functionalities that make up a unique virtual desktop platform:

- UDS Enterprise uses differential disk technology to deploy template-based virtual desktops. Using these types of disks in the virtual desktops guarantees a better management of the virtual desktops, since the modifications and updates will be made to the base template. At the same time, storage space is saved because only the changes made to the base template are saved in the differential disks
- Using Proxmox helps you achieve a greater concentration of virtual desktops when compared to other hypervisors, thanks to its resource management and optimization
- Proxmox uses memory management technology, “memory overcommitment,” allowing for the assignment of more virtual memory to the virtual desktops than the physical server actually has available
- Load balancing, using the different physical servers of the platform according to different resource usage criteria
- Proxmox enables the usage of local server hard drives that make up the virtual platform as a single shared storage, which results in a cost savings regarding storage
- Management of the virtual desktop life cycle
- Virtual network management, allowing the deployment of virtual machines on different vSwitches, and the configuration of different network interfaces on the virtual desktops
- The SPICE connection protocol helps achieve an extraordinary user and multimedia experience with low consumption of bandwidth
- The platform costs are drastically reduced, as they are substituted by maintenance and support costs

UDS Enterprise with Proxmox is a reliable, efficient and low cost solution for managing virtual desktop platforms for any type of environment, maintaining all of the characteristics of the hypervisor chosen for your platform.



About Virtual Cable

Virtual Cable develops, supports and sells UDS Enterprise through a subscription model based on number of users, including product support and updates.

Additionally, Virtual Cable offers professional services to install and configure UDS Enterprise.

For further information visit www.udsenderprise.com or email us at info@udsenderprise.com