

### VDI Boot Camp

This document defines and explain the minimum components, for both hardware and software, necessary for implementing a desktop virtualization (VDI) platform. The document is based on a “Hosted Desktops” solution.

### Hardware components

Three types of hardware components are needed for implementing a VDI platform: server infrastructure, storage infrastructure and client devices.

**Server Infrastructure.** It consists of the necessary servers with enough processing and physical memory capacity for hosting the hypervisor layer, which will assign the necessary hardware resources to the virtual desktops.

**Network electronics.** This will allow for interconnection between the different platform components. Network architecture for a VDI platform can be very complex, so it’s crucial that these components are of the highest quality.

**Storage infrastructure.** Formed by the necessary hard drive cabinet or cabinets, with sufficient capacity and disk access speed for hosting both the virtual desktops deployed and the data, shared or otherwise, of the virtual desktops deployed.

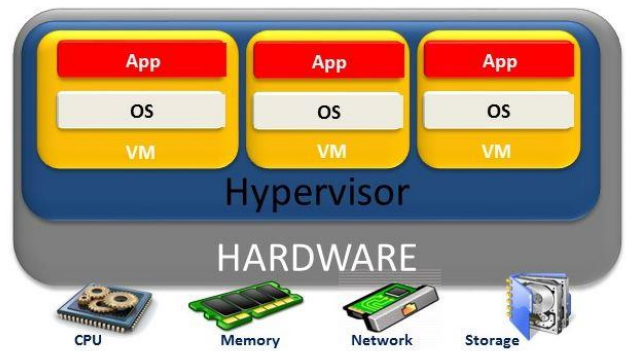
**Client devices.** The devices that will be used to connect to the virtual desktops. Generally, we will define whether they are fixed computers, laptops, thin clients, zero clients or even mobile devices.

### Software components

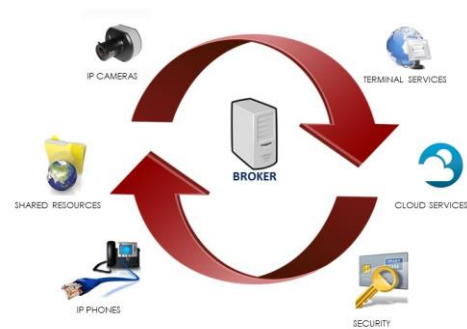
The following components are necessary for implementing a VDI platform:

**Hypervisor Software.** The software that is installed on the server infrastructure and that is responsible for assigning memory, processing, network and disk resources to the virtual machines hosted on the platform.

**Virtual image machine or golden image.** Virtual machine with the necessary OS and applications installed in order to perform a subsequent deployment of the virtual desktops based on this image.

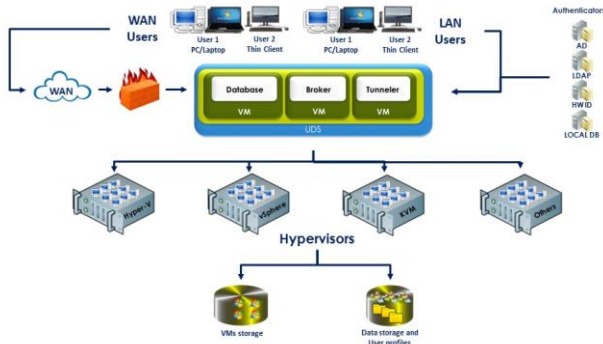


**Services Broker.** The software responsible for managing connections, virtual desktop pools, virtual desktop lifecycles and virtual desktop behavior. It also allows for the assignment of additional resources to the platform, such as storage, FTP services, accesses or security. In general, it is supplied as a virtual appliance hosted on the hypervisor, with some external component for administering and occasionally with a software for the client device.



**Client Device Operating System.** The OS used by client devices on which the connection request to the assigned virtual desktop will be made. It must be compatible with the installed platform and it is recommended that it is easy to change for a platform adjustment or performance improvement.

Below, we can see the topology of a complete, generic VDI platform:



## UDS Enterprise solution

Looking to equip these types of environments with the most innovative and flexible solution, one that will also permit cost optimization and allow for updated technologies, the UDS Enterprise development Team has come up with a multi-platform solution that consists of a services broker with the following characteristics:

**Multi-hypervisor.** Compatible with the different hypervisor platforms existing on the market, both present and future. It allows connection on several hypervisors at the same time, including those from different manufacturers, permitting optimization of costs and of the performance of the services deployed.

**Compatible with Windows and Linux environments.**

**Multi-protocol.** Supports different virtualization protocols, enabling optimized connections according to the user profile.

**Multi-authenticator.** Permits the use of different authentication systems, allowing each company to keep its own systems without having to adapt to or tampering with the system.

**Multi-service.** In addition to deploying virtual desktops, UDS Enterprise is capable of managing connections to FTP servers, virtualized applications, storage or any other type of IP service that requires organized management.

**Incorporated Security.** UDS Enterprise incorporates its own SSH tunneler for a secure client - server connection, avoiding the need for additional third-party hardware or software.

**Unlimited growth** capacity in functionalities (the routing card is dynamic and based on real client requests), technologies and number of users.

## Who is UDS Enterprise for?

- Any private or public business with interest in VDI and technical and human resource optimization
- IT departments that need to cleanly and quickly create and destroy work desktops, for example, teaching centers, call centers, developmental environments or research centers
- Organizations with remote workers that are concerned with the security of its connections
- Organizations with different authentication systems that are considering choosing between individual or unified (single sign-on) authentication
- Organizations with different Windows and Linux OS to virtualize
- Organizations with specific characteristics in their systems that have not found their ideal VDI platform so far
- In short, any business or corporation that hopes to approach a desktop virtualization project that is assured to grow, it is open, it is not linked to a single manufacturer and maintains control of the platform costs

## Professional support and services

VirtualCable sells UDS Enterprise through a subscription model, including product support and updates in segments based on number of users.

Additionally, VirtualCable offers a broad portfolio of professional services to install and configure UDS Enterprise and other virtualization technologies.

For further information visit [www.udsenderprise.com](http://www.udsenderprise.com) or email us at [sales@udsenderprise.com](mailto:sales@udsenderprise.com)