

# QVD OVERVIEW

REVISION HISTORY
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NUMBER	DATE	DESCRIPTION	NAME
1.0	December 2010		NA

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## 1 Introduction

QVD (Quality Virtual Desktop) is a **Linux** focused VDI (Virtual Desktop Infrastructure). What does it mean?, that the Desktops delivered to the clients are Linux Desktops. These desktops are virtualized by kvm (Linux kernel virtual machine), and intend to be a fully integrated solution, what involves that all the components are fully integrated.

Desktop Virtualization is as its early ages and the necessity for companies to keep their data under control are growing including those in the desktops users. QVD is a product that are relying on user's desktops.

## 2 QVD Fundamentals

QVD is written in perl and it runs such a process in a Linux OS. As the delivery protocol is Nx, the user desktop runs as a remote X11 session even across slow or low-bandwidth connections. It's possible to run the client on Windows and Linux platforms or via Thin Clients.

### 2.1 Basics

QVD is composed by actors and components.

The QVD's actors are

- Users (End Users)
- Virtual Machines
- Nodes
- Images

Users: People that work at their desks, using office packages, email, whatever. Must be identified by login and password.  
Virtual Machines: Running Linux Desktops and owned by the users. These VM's run under kvm on Linux Nodes.  
Nodes: Physical servers where the VM's run.  
Images: Templates with shared properties as applications installed, memory for the VM or space for the user's home.

The QVD components are

- QVD-Client.
- QVD-L7R (Level 7 Router)
- QVD-HKD (House Keeping Daemon)
- QVD-Node
- QVD-Database
- QVD-Administration tools
- QVD-VMA (Virtual Machine Agent)

**QVD-Client:** A piece of software that connects the user with the virtual Machine. Able to push some user's devices from the user physical workstation through his virtual machines.

**QVD-L7R:** In charge to balance the connections from the QVD-Client to the Virtual Machines and the responsibility for login user before they went into their Virtual Machines.

**QVD-HKD:** Responsible to interact with the Virtual Machines, starting, stopping, and update the VM's status in the QVD Database.

**QVD-Node:** Daemon running at in the nodes, in charge to manage the QVD-L7R and the QVD-HKD.

**QVD-Database:** Holds the status for all users, Virtual Machines, images, hosts. All the platform information is held by the

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database.

**QVD-Administrative tools:** Composed by CLI and the WAT (Web administration tool) that provides an easy and simple way to administrate the whole platform, from a couple of nodes to hundreds.

**QVD-VMA:** The agent that runs in the Virtual Machine, allowing users to connect, enable printer sharing, audio, hooks, etc.

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