



HOB X11Gate 2.1

Smart and Easy Remote Access to Company Resources on Unix/Linux Server

Overview

In the last few decades, working life is changing rapidly, just as the society we live in. We aren't bound to the traditional working life from 9 to 5 anymore. People enjoy the freedom to work while we move from one place to the other – checking corporate e-mails on the train, finishing presentations while waiting for the next flight or editing documents at a hotel. Thus, the central storage of enterprise data and applications is becoming more and more important, especially when mobile workplaces are increasing becoming a part of our corporate concept.

In order to keep up with this demand of a continuously increasing workforce, remote access to company resources on target systems like Linux/Unix servers must be ensured – at anytime and anywhere. HOB X11Gate enables, especially for large user bases, performant remote access to Linux/Unix servers for many users simultaneously. You can have more comprehensive and reliable security features, like SSL-encryption and single sign-on, if you combine HOB X11Gate with the remote access suite HOB RD VPN. In this way the security of the critical company resources is ensured at every level.

Advantages at a Glance

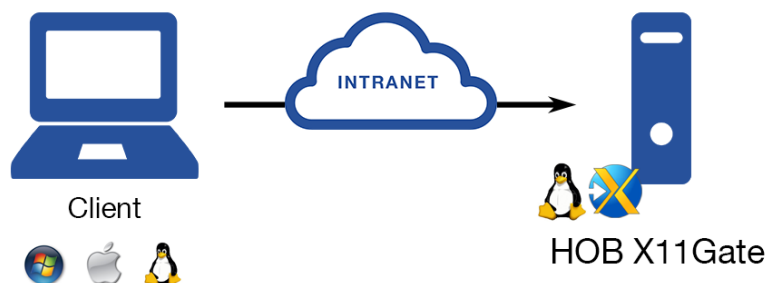
- Increase of user productivity – highly performant remote access to Linux/Unix servers and less bandwidth needed
- More flexibility for users and administrators – remote access for many users simultaneously
- Reduce commuting costs and time – flexible and secure remote access for teleworking support
- Higher performance and decrease of TCO – transforms X Window protocol into performant RDP protocol

Strong Performance with RDP

RDP is the leading industry standard for the transmission of graphical user interfaces. RDP is very powerful and offers a multitude of useful functions. In a large-scale benchmark test, none of the many other protocols being tested against the latest version of RDP were superior or even comparable in functionality or performance. In realistic benchmark tests between RDP and VNC protocol (RFB – Remote Framebuffer

Protocol), VNC exchanged seven-times the amount of data. Also the comparison of RDP to the proven X-Protocol (X11, MIT) delivered results of a similar magnitude. The comparison of the exchanged data volume corresponds approximately to the ratio of the response-times, i.e., the amount of time the user waits, e.g., for the image to be refreshed.

Deployment of HOB X11Gate as a standalone version



Area of Use

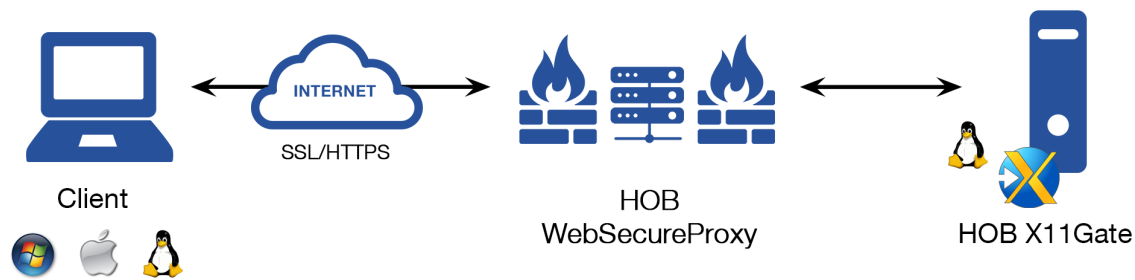
HOB X11Gate offers you manifold possibilities for endless deployment scenarios. HOB X11Gate offers you manifold possibilities for endless deployment scenarios. Whenever secure remote access to company resources on Linux/Unix servers for a broad user base is needed, HOB X11Gate is the ideal companion.

For example, you can enable your workforce to simultaneously access different applications on the Linux/Unix server – without reducing performance or security. With HOB X11Gate you can easily integrate new users and, it fits perfectly into your existing IT infrastructure. Moreover, it seamlessly adapts into your mobile workplace strategy due to the web-based access with the preferred end device – true to the saying: at any time, in any place and with any device.

Furthermore, HOB X11Gate revolutionizes remote access to Linux/Unix applications – thanks to the transformation of the X Window protocol into the performant RDP protocol. Thus, less bandwidth is needed in order to enhance the productivity and work efficiency of the users.

And, of course, it is easier to ensure the security of the data and applications when everything is stored centrally on the company servers. More security is provided in combination with HOB RD VPN. IT administrators can simply and centrally define individual user roles and rights – for consistent security control within the whole company. The big advantage: no time consuming installation and administration rights are needed on the client side.

Deployment of HOB X11Gate with HOB RD VPN



Installation and Operation

HOB X11Gate is a purely software-based solution and can be installed centrally on the Linux/Unix server. As HOB X11Gate is as individual as the company itself, it fits perfectly to your individual company IT infrastructure, you do not need any additional hardware.

You can use HOB X11Gate via an RDP client on any platform (Windows, Mac OS, Linux, thin client etc.) to access your company Linux/Unix server.

HOB Link X11Gate even enables access for multiple users at the same time. HOB recommends using the HOB RDP clients HOBLink JWT or HOBLink iWT, or the standard Windows RDP client. You have up to 128-bit RDP-encryption.

HOB suggests you use HOB X11Gate in combination with HOB RD VPN, if the users also remotely access

Features and Functions

HOB X11Gate provides you smart possibilities to fulfill the individual needs and requirements of your company. HOB X11Gate makes it possible for multiple users to start various remote access sessions to Linux/Unix servers at the same time. This increases the productivity of your workforce even more.

Additionally, with HOB X11Gate it is possible to log messages centrally at the administration portal if desired.

company servers from outside the company LAN, due to the limited security which the RDP encryption offers for your IT systems. With HOB RD VPN you can achieve the highest security standards and features with a secure SSL encryption. You have even more defined options to control user access with roles and rights as well as multi-tenancy options. The icing on the cake: HOB uses its own SSL implementation, the security of which is confirmed by the German Federal Office for Information Security with a certificate in acc. w. the Common Criteria EAL 4+. Additionally, no installation and administration rights are needed anymore on the client side – you reduce the administration efforts and costs most effectively.

Moreover, HOB X11Gate supports the IPv4 and IPv6 protocols – it is perfectly equipped for current and future networks.

Discover more features and functions in the following sections.

Central and Web-based Administration / Configuration

The HOB X11Gate administration portal allows users and administrators to centrally manage the sessions via a web browser. The administration portal is designed for intuitive usage, making time-consuming training unnecessary, thus saving time and reducing administration effort.

The web-based administration portal enables users to administrate their own sessions and to disconnect sessions if any problem appears. Further, the portal automatically terminates disconnected sessions after a configurable timeout. This makes it easier to control sessions that have been disconnected for a long time.

For administrators it is possible to allocate user roles and rights, as well as to manage all users and their sessions. Even more: it is possible to block certain users, terminate active and idle sessions – for more security in your company. Also, the administrator is able to change and reload the HOB X 11 Gate configurations – without disturbing the already established sessions.

Session Disconnection and Reconnection

HOB X11Gate makes it possible for you to re-establish disconnected session and return to the first disconnected session. The HOB X11Gate session remains in a “connected” state for a specified time, if the user disconnects the session. If any session interruptions happen the session will be terminated.

Support of Multiple Keyboard Layouts

We are all familiar with this – you use remote access solutions from one OS to another and you have to get used to the new keyboard design of the target device. This doesn't happen with HOB X11Gate – it enables flexible keyboard support and keyboard mapping. You can utilize your Linux keyboard directly on the client – even if you are accessing from a Windows PC or Mac. Furthermore, you can specify a different keyboard in the RD client and use it for Linux applications. HOB X11Gate supports keyboards in many languages, e.g., German, English, Spanish, French, etc.

Clipboard Support and Compression

In order to provide you with an easy workflow, HOB X11Gate offers effective clipboard support. Based on this feature, you can easily exchange information between applications on the client and applications on the host. You can simply copy and paste text information without extra steps. The benefit: it works in both directions – from the client to the host device and vice versa.

For more performance and work efficiency, the compression capability makes it possible to reduce bandwidth requirements even further. It provides you with a performant connection at very low bandwidth.

Support OpenGL applications on Linux Server

You want to use applications for rendering 2D and 3D computer graphics – OpenGL – on a Linux/Unix server? HOB X11Gate makes it possible. The HOB software solution supports the usage of OpenGL applications for graphic rendering on your Linux/Unix server – using an software emulation within the HOB X11Gate.

Security and Authentication

As an IT security expert, the security of your company resources is always our priority. Therefore, we supply highly secure encryption methods and proven authentication technologies.

HOB X11Gate supports the reliable RDP encryption. You can customize your security level configuration for your Linux/Unix server – up to 128 bits. Thus, you can ensure a secure data transfer during the remote session. The clue: additional security will be offered via authentication of XClients using SSH.

More and enhanced security options will be archived with the comprehensive remote access suite HOB RD VPN.

Highlights

- Performant connections at very low bandwidth
- Multi-session capability: access of multiple users and connections simultaneously
- Support of multiple keyboard layouts
- Web based administration portal
- Reconnection of disconnected sessions
- Support of OpenGL applications on Linux/Unix server using emulation
- IPv4 and IPv6 capability
- RDP encryption up to 128 bit
- More security features in combination with HOB RD VPN

Thus, HOB X11Gate 2.1 is based on XOpen X11R7, this version does not yet support Gnome 3.

System Requirements

Server System

- Linux/Unix operating system 64 bit

Client-Spezifikation

- Recommended RDP clients
 - » HOBLink JWT
 - » HOBLink iWT
 - » MS Remote Desktop Connection