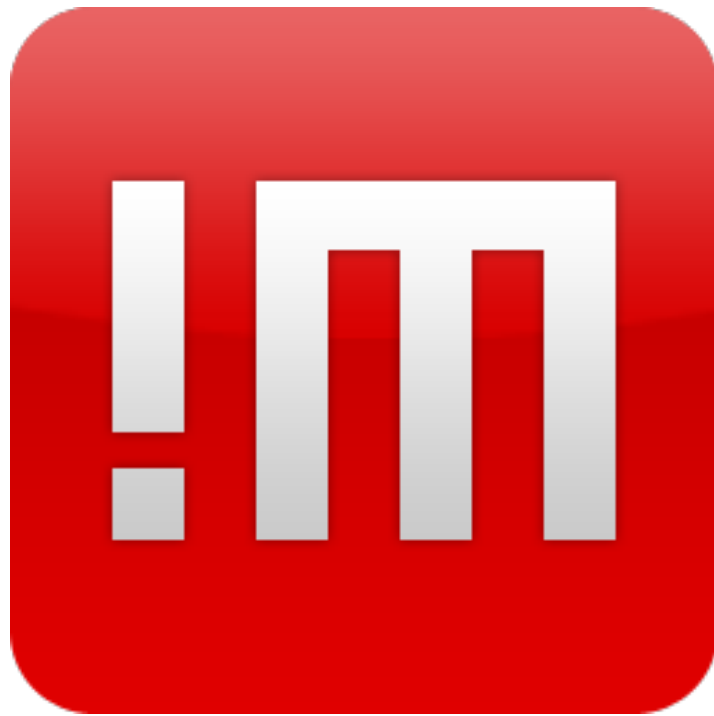


NOMACHINE	Setting up remote access to Linux virtual desktops	
Prepared by: Silvia Regis	N°: D-705_017-STT-LVD	
Approved by: Sarah Dryell	Last modified: 2018-06-05	Amended: A



Setting up remote access to Linux virtual desktops

NOMACHINE		Setting up remote access to Linux virtual desktops
Prepared by: Silvia Regis	N°: D-705_017-STT-LVD	
Approved by: Sarah Dryell	Last modified: 2018-06-05	Amended: A

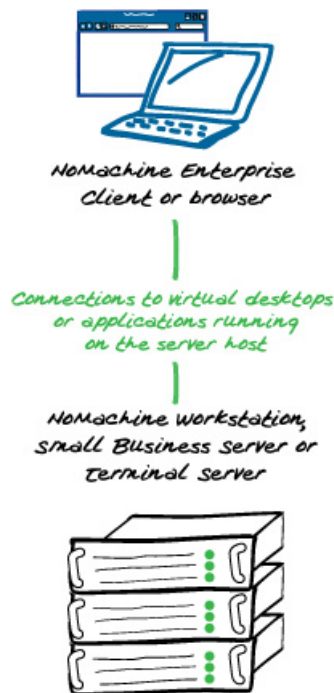
This document is intended to provide general guidelines for understanding which NoMachine products and licenses are necessary to provide remote access to virtual desktops and single applications running on a single Linux host (Terminal Services). The remote computer can be your own physical or virtual machine either on-premises or hosted in a cloud .

Definitions

To create virtual desktops on the remote computer, **NoMachine Workstation** or **Small Business Server** or **Terminal Server** needs to be installed on that computer.

A NoMachine **virtual desktop** is an individual instance of the remote desktop. Instead of running a virtual instance of the whole remote desktop, it's also possible to execute **single applications**. These two functionalities are available only with NoMachine servers on Linux ('NoMachine Terminal Server' family).

A schematic diagram



This solution is suitable for small/medium business.

Licensing

Pre-requisite to providing access to the remote Linux machine is to install any of the NoMachine servers from the 'Terminal Server' family, i.e.:

1 NoMachine Workstation license if you plan to have up to four virtual desktops

or **1 NoMachine Small Business Server** license for up to ten concurrent virtual desktops (on demand, contact the Sales Team for available options)

NOMACHINE		Setting up remote access to Linux virtual desktops
Prepared by: Silvia Regis	N°: D-705_017-STT-LVD	
Approved by: Sarah Dryell	Last modified: 2018-06-05	Amended: A

or **1 NoMachine Terminal Server** license for more than ten concurrent virtual desktops (unlimited).

On the end-user's computer install NoMachine Enterprise Client (which is free to use) or connect by the web via browser. All of the above-mentioned products include access via the browser.

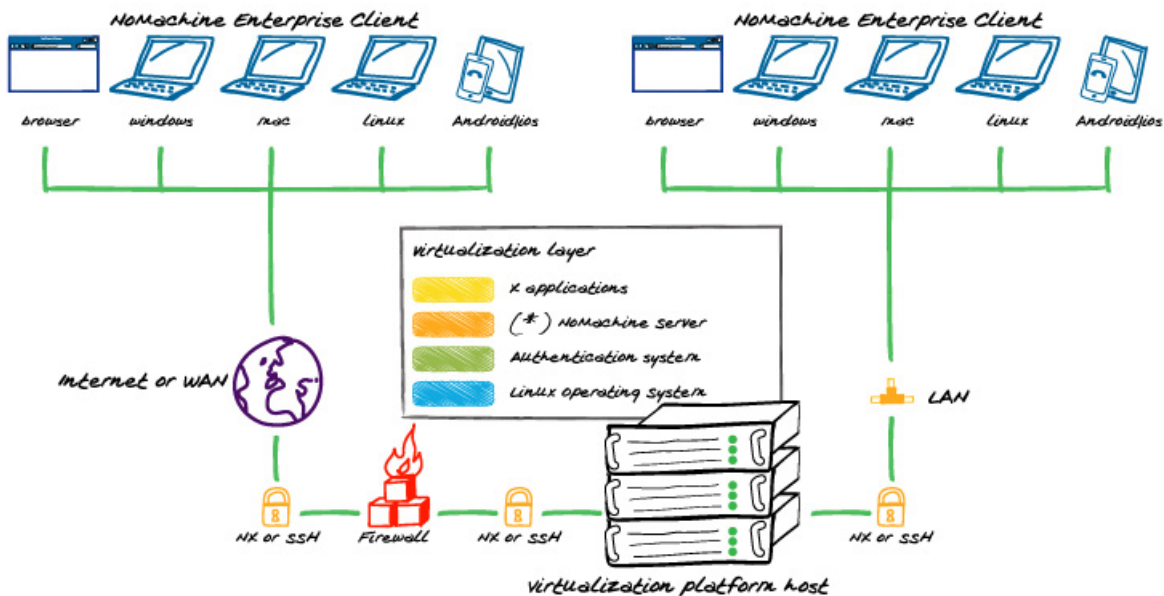
Minimum requirements

This scenario typically has installed:

1 NoMachine Workstation or Small Business Server or Terminal Server on a Linux host (a machine called "A").

Typical use cases

The following diagram shows a general infrastructure built on top of a virtualized O.S. as the server host. A similar infrastructure can be set-up also for a physical server host machine. Note that client-server connections can be over the internet or on a private network (LAN). Users can connect by NoMachine client via the secure native NoMachine NX protocol, the SSH protocol or by browser (web sessions) via HTTPS. Password and key-based authentication methods, as well as Kerberos tickets and two-factor authentication are supported.



(*) NoMachine workstation, small Business server or Terminal server

Scalability

This solution provides individual instances of the remote desktops (virtual desktops) and applications hosted on a single Linux computer. Workstation allows 4 virtual desktop sessions, Small Business Server allows 10 and Terminal Server provides an unlimited number. In the case of a larger number of users, you may consider setting up a multi-host environment with **NoMachine Enterprise Terminal Server**

NOMACHINE		Setting up remote access to Linux virtual desktops	
Prepared by: Silvia Regis		N°: D-705_017-STT-LVD	
Approved by: Sarah Dryell		Last modified: 2018-06-05	Amended: A

to distribute virtual desktops and applications among **Terminal Server Node** hosts. This solution allows load-balancing of sessions among multiple hosts. **High-availability** of virtual desktops is also possible by setting-up a failover cluster between two NoMachine Enterprise Terminal Server hosts.

 **TIPS**

The NoMachine host can be either a physical computer or a virtual machine. Multiple NoMachine Workstation or Terminal Server (not the Small Business Server!), even in different geographical locations, can be federated under a Cloud Server, which provides a single point of access to different subsystems.
