Server Hardeware Requirements Guide

This guide describes how to virtualize the server for Smart Laundry eXperience (SLX) and lists the minimum hardware requirements.

Architecture

Kannegiesser provides an image of a virtual machine (VM) based on Ubuntu. The only officially supported Hypervisor is Microsoft Hyper-V. It is possible to convert the image for another hypervisor (e.g., VMWare). However, for licensing reasons, Kannegiesser cannot support such conversions in any way.

Hardware Requirements

The server requirements depend on the number of data providers. Table 1 lists all currently possible data suppliers. Summarize the number of data suppliers and then check the hardware requirements from table 2.

In addition to the hardware requirements listed in table 2, the virtual image expects a virtual network adapter connected to the Kannegiesser network (see network).

Please note that the specified requirements base on empirical values and may change during commissioning.

Table 1: List of data suppliers

Data supplier	quantity
Sorting platform	
Monorail system	
Batch washer	
Press	
Centrifuge	
Dryer	
Machines with Control Panel (X6m, X8 oder IBT-X2)	
Rapidloader (Garment system)	
Repair stations (Garment system)	
Control stations (Garment system)	
Stack management (per target)	
SUM	

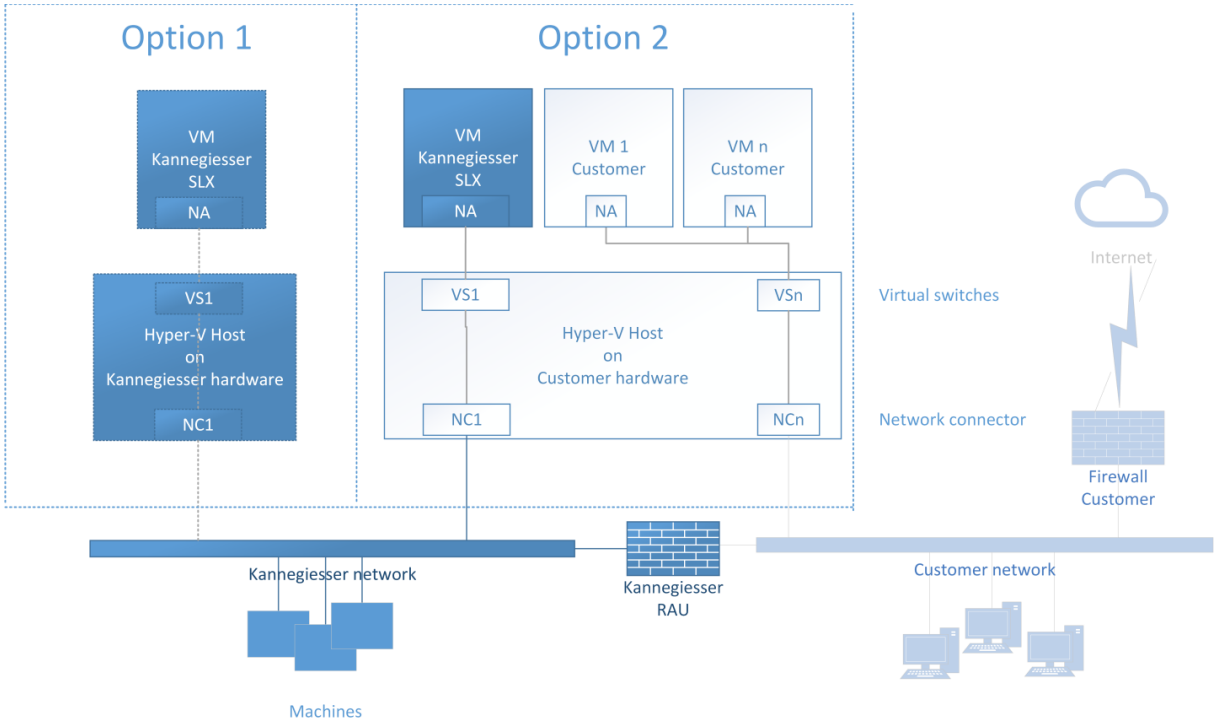
Table 2: Hardware requirements per quantity

Number of data suppliers	CPUs (2 GHz)[1]	RAM	SSD
01-10	4	8 GB	300 GB
11-30	8	16 GB	300 GB
30-50	12	24 GB	300 GB
50-90	14	40 GB	300 GB

The customer is responsible for purchasing additional licenses for the host operating system as well as licenses for each user or device that accesses the server (so-called CALs). For more information, visit the official Microsoft web site or contact your local reseller or distributor.

Network

All network clients provided by Kannegiesser communicate via the Kannegiesser network. This network must be physically separated from all other network within the laundry. Kannegiesser only accepts connections between the Kannegiesser network and third-party networks via the Kannegiesser firewall (aka Remote Access Unit, RAU).



Picture 1: Structure of network components

If customers host a Kannegiesser virtual machine on their own hardware, they must provide a direct connection between the virtual machine and the Kannegiesser network. In this case, the host system

[1] The number counts the virtual CPUs (Multithreading).

must pass the network traffic from the server hardware to the virtual machine. The host system must not access this network traffic and must not connect directly to the network.

Routing

If SLX products should also be accessible outside the Kannegiesser network, the customer must set up a routing. The routing must ensure that the IP of the SLX server (by default `10.8.15.116`) is accessible outside the Kannegiesser network.

For single devices with Windows operating system, open an administrative command prompt and enter the following command:

```
route -p add 10.8.15.116 mask 255.255.255.255 IP_RAU
```

Replace the placeholder `IP_RAU` with the static IP of the Kannegiesser firewall (RAU).

Instead of configuring many devices separately, you can also set up the routing for an entire network. If you have any questions about this topic, please contact your network administrator or IT service provider.

Commissioning

Kannegiesser sends a link to download the image of the virtual machine by mail if the customer provides the server hardware. If Kannegiesser provides the server hardware, all virtual machines are already pre-installed.

Backups

If customers provide the server hardware, they are responsible for the regular backup of the virtual machine. Kannegiesser recommends backing up the virtual machine at least once a day.