

openSUSE Conference 20



Abstract ID : 40

KIWI ans SUSE Linux Enterprise Point of Service

Content :

The number of devices which operate in a wireless mode is more and more increasing and there are efforts to make multi-gigabit speed wireless operating over the currently unlicensed 60 GHz frequency band. Thus the transfer of an operating system image over a wireless line is no longer just a vision and we prepared a procedure to deploy KIWI built appliances over a wireless network to the client.

We use this feature to deploy cash-registers in stores of large retails operators. In the presentation we describe the use-case and provide also general overview of the SUSE Linux Enterprise Point of Service product.

Summary :

The number of devices which operate in a wireless mode is more and more increasing and there are efforts to make multi-gigabit speed wireless operating over the currently unlicensed 60 GHz frequency band. Thus the transfer of an operating system image over a wireless line is no longer just a vision and we prepared a procedure to deploy KIWI built appliances over a wireless network to the client.

Booting a computer via the PXE protocol is an established process. Most Ethernet network cards are equipped with a firmware that controls the process or at least the BIOS of the computer is able to handle PXE. The client broadcasts for an IP address from a DHCP server followed by calling a bootloader which has to conform to the PXE (Preboot-Execution Environment) specification. On Linux pxelinux is used for this and loads the kernel and initrd via the TFTP protocol.

There is no such execution environment available for wireless networks. Therefore we preinstall a small kernel and initrd on the client so that it can connect to an access point and starts to operate over the wireless network.

Along with the presentation we will describe in detail how to use this feature, e.g how to add the wireless credentials in a safe way.

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the presentation we describe the use-case and provide also general overview of the SUSE Linux Enterprise Point of Service product.

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Track classification : Community and Education

Contribution type : --not specified--

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Submitted on Tuesday 31 July 2012

Last modified on : Tuesday 31 July 2012

Comments :

Maybe SLEPOS team will participate in the presentation.