Virtualization on Slackware Aarch64

OUTDATED: Please refer to the updated installation guide, here

This is a WIP set of notes that will eventually become an installation guide to build a virtualization stack with qemu on SA64

The software mentioned here all have an existing SlackBuild on SlackBuilds.org.

- Qemu
- Libvirt
- Virt-Manager
- Netcat-openbsd

Preparation

Clone the latest SlackBuild git repository

```
 git clone git://git.slackbuilds.org/slackbuilds.git
```

Checkout a new branch within the local repository.

```
git checkout -b aarch64
```

Find and replace the support for x86_64 with that of aarch64 architecture. Verify that the current directory is the local repo.

```
cd /data/slackbuilds
sed -i 's/x86_/aarch/g' */*/*.SlackBuild
```

Commit the changes to the “aarch64” branch:

```
git add .
git commmit -m "Add aarch64 support."
```

I install sbopkg found at https://sbopkg.org to build the packages required for virtualization.

```
installpkg sbopkg*wsr.t?z
```

Add the following file to the sbopkg configuration in /etc/sbopkg/repos.d/100-ble-current-aarch64.repo.

```
SA64 aarch64 "SA64 git repository for -current" _ble git
/data/slackbuilds@aarch64 ""
```

- Where /data/slackbuilds is the location of the slackbuilds cloned repository.
- Where _ble is the tag used to identify all built packages

Installation

Replace the standard netcat package (nc) with the netcat-openbsd package on SlackBuilds.org to enable remote access to Virt Manager

```
removepkg nc
```

Optionally blacklist nc in /etc/slackpkg/blacklist to avoid accidental reinstallation during a system update.

Pull our changes from the local repository into the sbopkg file structure:

```
sbopkg -r
```

Create queue files:

```
sqg -a -j$(nproc)
```

Build and install the packages.

```
sbopkg -i "qemu virt-manager libvirt netcat-openbsd"
```

After some time sbopkg will report it has successfully installed the virtualization stack.

Start the Libvirt daemon:

```
chmod +x /etc/rc.d/rc.libvirt
/etc/rc.d/rc.libvirt start
```

From:
https://docs.slackware.com/ - **SlackDocs**

Permanent link:
https://docs.slackware.com/slackwarearm:development_di_virtualization_aarch64

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