AI Overview

To run 32-bit applications on a CentOS 9 (or any modern Linux distribution) 64-bit system, you need to **enable multiarch support**. This allows the system to handle both 64-bit and 32-bit libraries and applications. You'll need to add the 32-bit architecture to the system and then update the package lists.

This video demonstrates how to enable 32-bit support on a 64-bit CentOS 9 system by adding the 32-bit architecture and updating the package lists:

IT System Admin
YouTube · Feb 2, 2025

Here's how to do it:

1. **Enable the CodeReady Linux Builder (CRB) repository:**
   - This repository contains some of the necessary 32-bit libraries and tools.
   - Run the following command:

Code
```
sudo dnf config-manager --set-enabled crb
```

1. **Add the 32-bit architecture:**
   - Use the `dnf` command to add the `i686` architecture:

Code
```
sudo dnf install -y glibc.i686 libstdc++.i686
```

- This command installs the necessary 32-bit C standard library and C++ standard library.

1. **Update the package index:**
   - After adding the architecture, update the package lists:

Code
```
sudo dnf update
```

1. **Install required 32-bit libraries:**
   - Identify the 32-bit libraries your application needs (e.g., using `ldd <your_application>` to check dependencies) and install them using `dnf install`. For example:

Code
```
sudo dnf install <32-bit_library_package_name>.i686
```

- Replace `<32-bit_library_package_name>` with the actual package name.

1. **Run the application:**
   - You should now be able to run your 32-bit application.

Important Notes:

Repository:
The `crb` repository is crucial for accessing some 32-bit packages. It might be necessary to enable it permanently using `dnf config-manager --enable crb`.

Dependencies:
You might need to install additional 32-bit libraries depending on your application's specific needs. Use `ldd` to identify missing dependencies and then install them using `dnf install`.

Compatibility:
Not all 32-bit applications are guaranteed to work on a 64-bit system, especially if they rely on very old libraries that are not available or compatible.

Dive deeper in AI Mode

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Server Fault
https://serverfault.com › questions › running-32-bit-inst...

Running 32-bit installer on 64-bit CentOS - linux

Nov 29, 2012 — The approach recommended by the vendor is to install the application on a 32-bit instance of CentOS, and then copy it over to the 64-bit server.

How to **install 32-bit** packages on a 64-bit **CentOS** 3 answers Jun 3, 2013
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64bit Centos: need to run 32bit applications.

Sep 19, 2009 — You can install a 32 bit application on 64 bit Centos and you apparently have 32 bit Linux anyway, so your diagnosis of the problem is doubly wrong.

Howto **install 32-bit** libraries on 64-bit Linux using yum 16 posts Nov 27, 2006
[SOLVED] Running **32bit** app on a 64bit Redhat. x64 3 posts Aug 25, 2010
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How are 32-bit applications and multilib libraries supported ...

Jun 18, 2025 — RHEL 7, 8, 9 will continue to support the multilib toolchain, allowing applications to be compiled for both 32-bit and 64-bit. RHEL 7, 8, 9 ...

AlmaLinux OS
https://forums.almalinux.org › running-old-32-bit-appli...

Running old 32 bit applications - Support

Sep 22, 2021 — I'm migrating from an old CentOs server to a new AlmaLinux machine. I am running a 20 year old 32 bit application (Webinator) on the old server.

Stack Overflow
1 answer · 5 years ago

How do I build 32-bit binaries with Red Hat Developer ...

I can't find any documentation whatsoever on how to target 32-bit with Red Hat Developer Toolset (version 9.0 in this case running on CentOS 7).

1 answer · Top answer: I guess you didn't notice that /opt/rh/devtoolset-9/root/usr/lib/gcc/x86_64-red...
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https://www.linode.com › community › questions › ho...

How do I enable 32-bit support on my 64-bit OS? - Linode

May 11, 2020 — To run your 32-bit software on a 64-bit OS, you'll need to enable 32-bit support. The following commands will work for Debian-based distributions and Ubuntu ...

Super User
https://superuser.com › questions › is-it-possible-to-inst...

Is it possible to install CentOS 64-bit on a 32-bit machine?

Jun 15, 2014 — No, it is not possible. A 32 bit machine refers to a computer with an ancient 32 bit only CPU. (On a modern PC that is usually a 10+ year ...
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CubeCoders Support
https://discourse.cubecoders.com › centos-9-install

CentOS 9 Install

Dec 16, 2022 — ... setup: Yes, via nginx with domain amp.ternsystems.ca Install Java: Yes Install 32-bit libraries: Yes Install Docker: No Ready to install AMP.

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https://access.redhat.com › solutions

How to install both 32-bit and 64-bit RPM packages on ...

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Rocky Linux Forum
https://forums.rockylinux.org › older-32-bit-package-o...

Older 32 bit package on Rocky 9

Sep 9, 2024 — Try searching for the packages on https://pkgs.org/ and be sure to use filters, For example libdb-cxx-devel-5.3.28-53.el9.i686.rpm might be the one of the ...

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