ubuntu

adapt install [anything]

Dustin Kirkland

SCALE 14x

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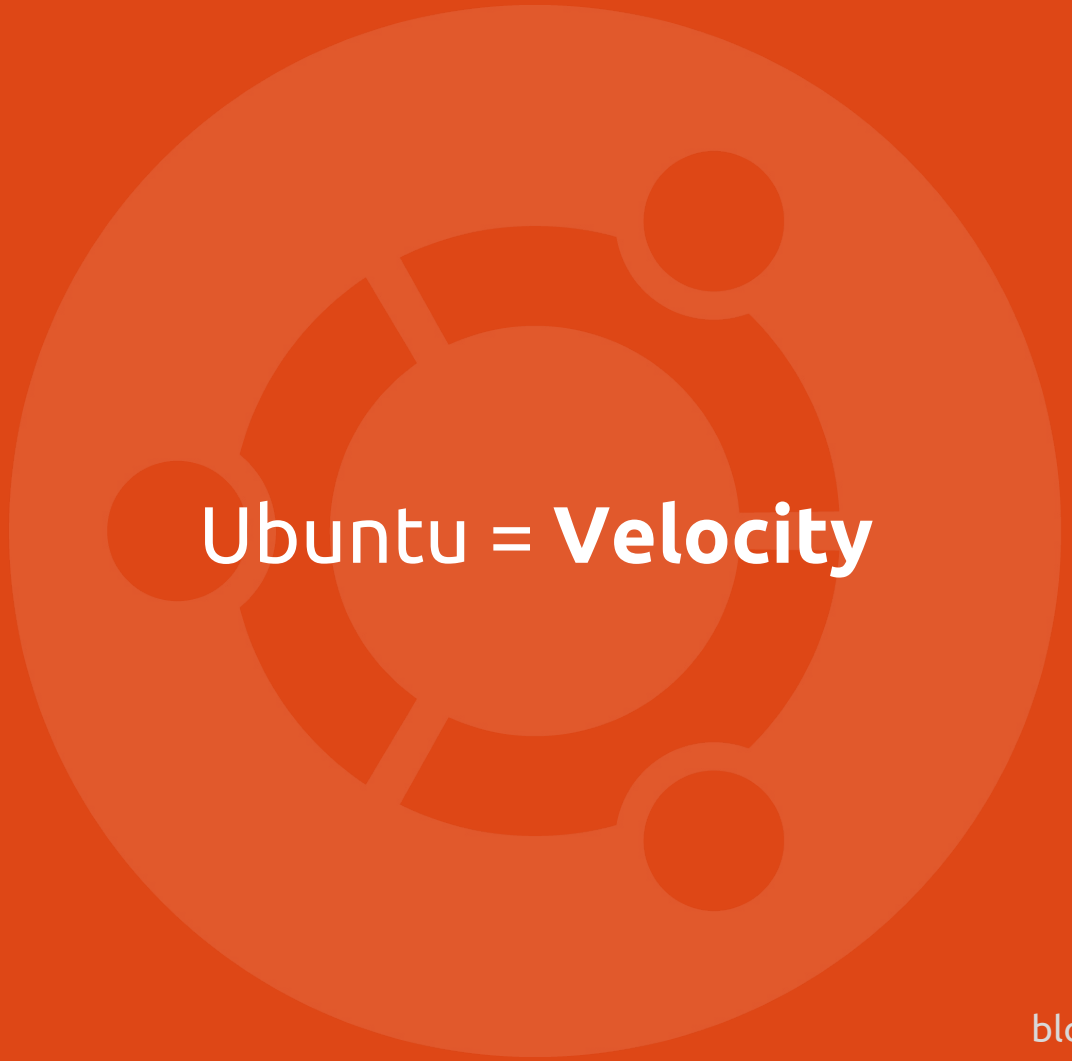
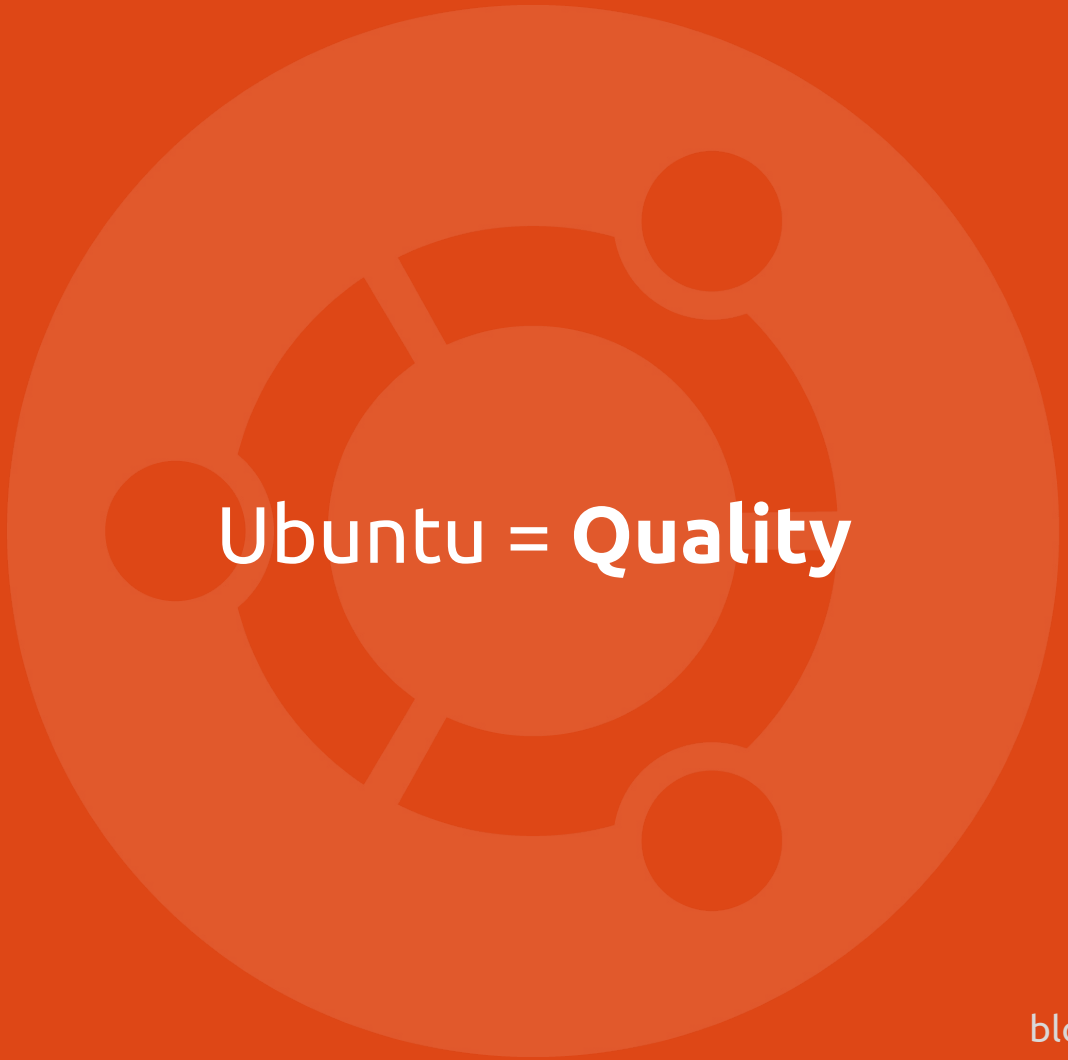
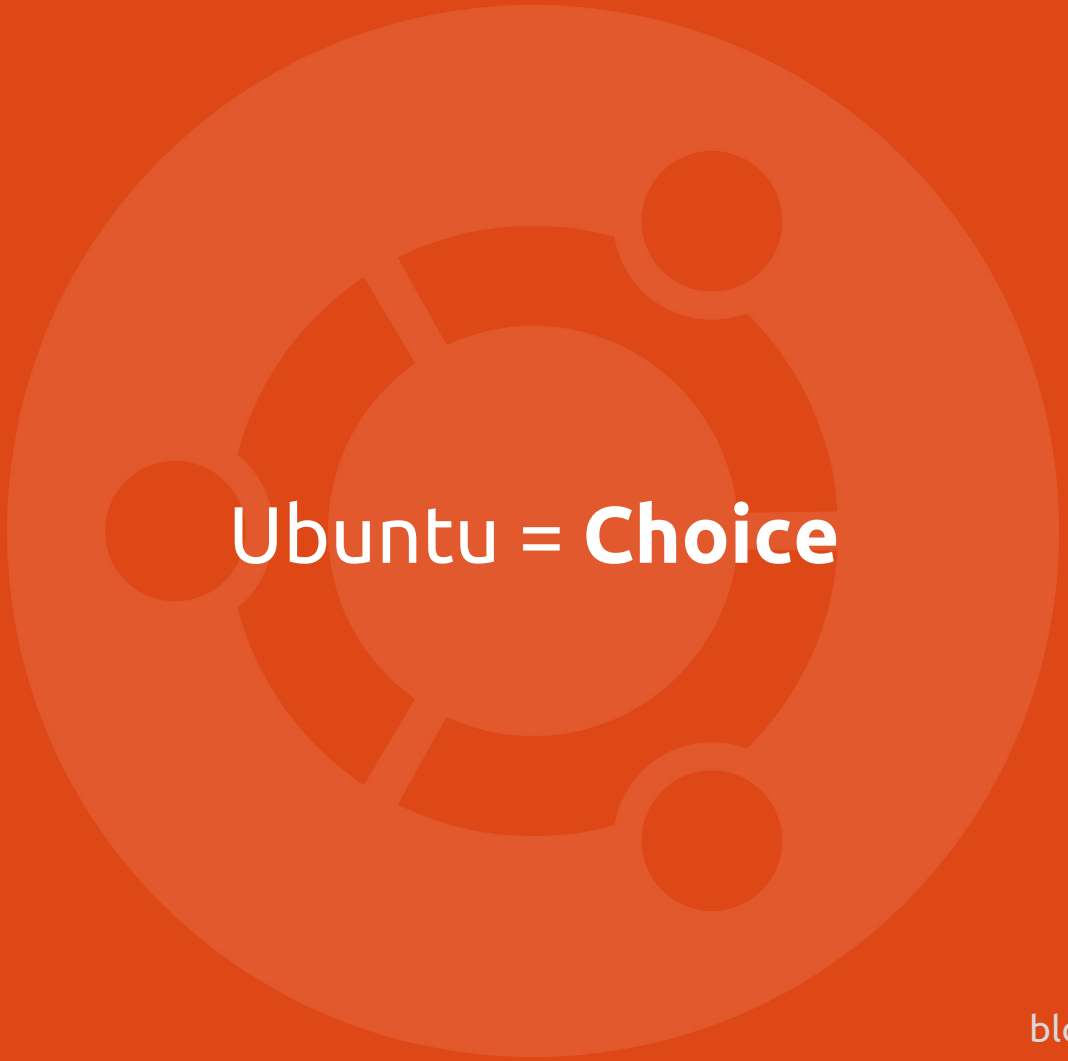


Ubuntu = **Velocity**



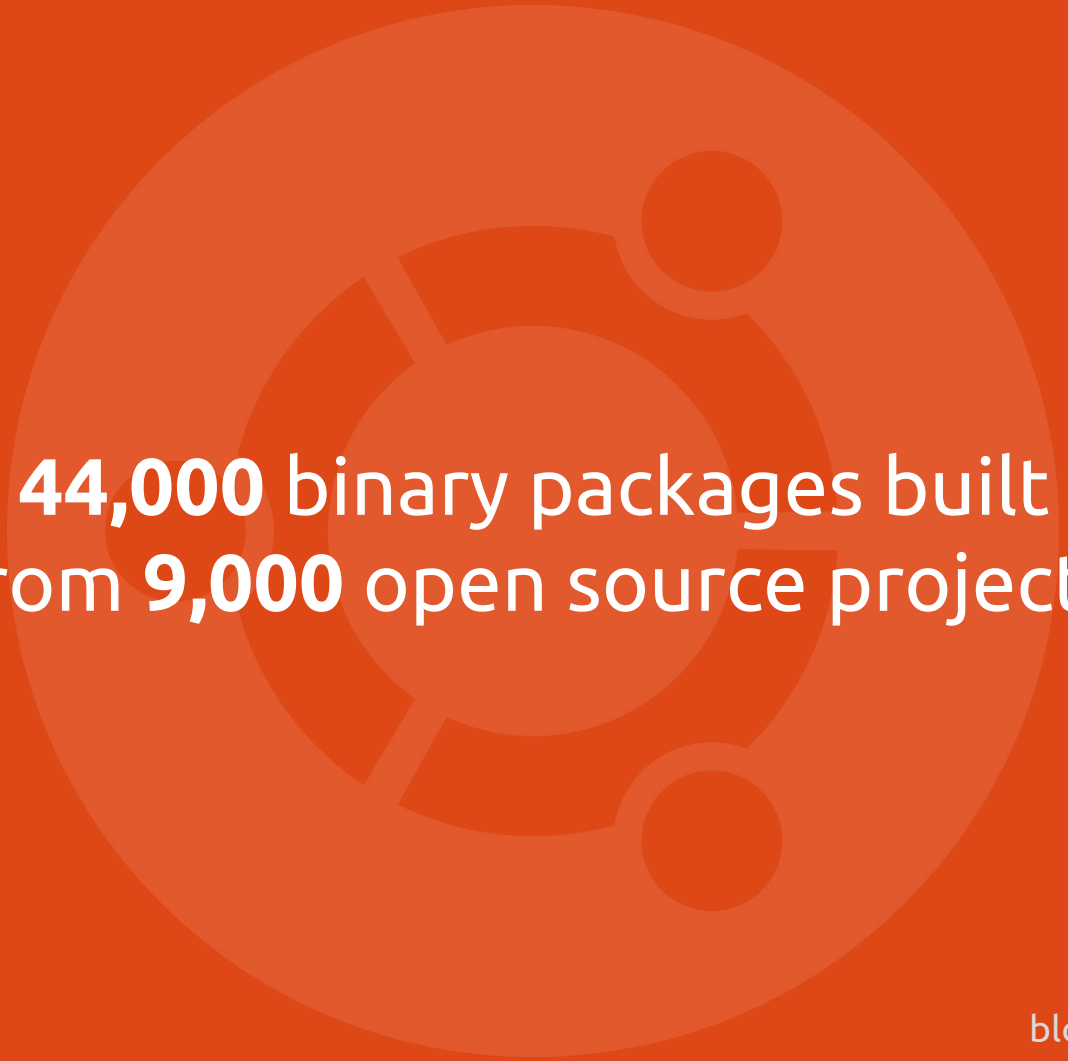
Ubuntu = **Quality**



Ubuntu = **Choice**

Released every 6 months
On time, **every time**

LTS release every 2 years
On time, **every time**



44,000 binary packages built
from **9,000** open source projects


Continuously
built, **integrated** and **tested**
together


And there are still
more packages available

Ubuntu **Backports** and Launchpad **PPAs**

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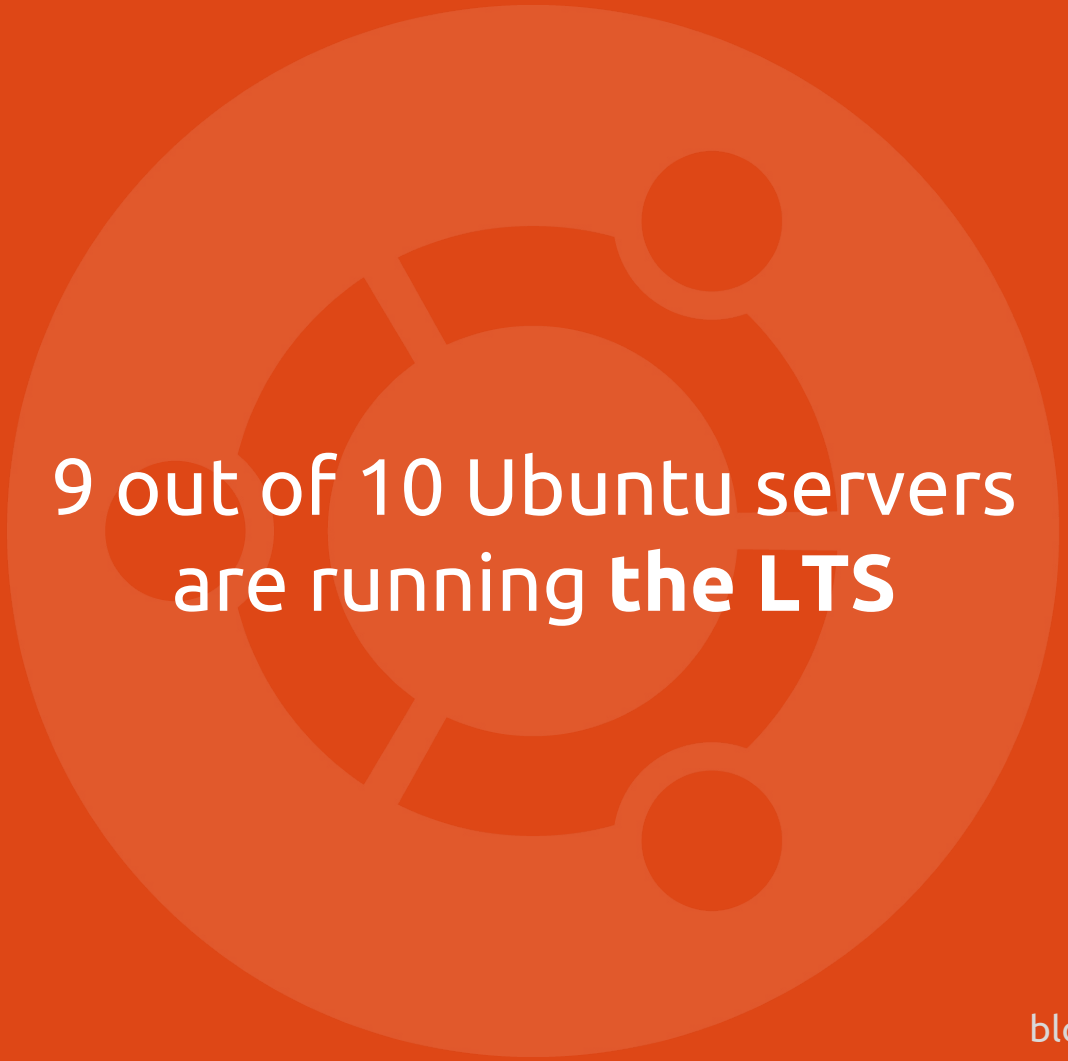

9 out of 10 Ubuntu servers
are running **the LTS**

Most users want
the **stability** of an LTS

But many users often need
that **one updated package**
from a newer release of Ubuntu

Sometimes those updated major versions land in **Ubuntu Backports**...

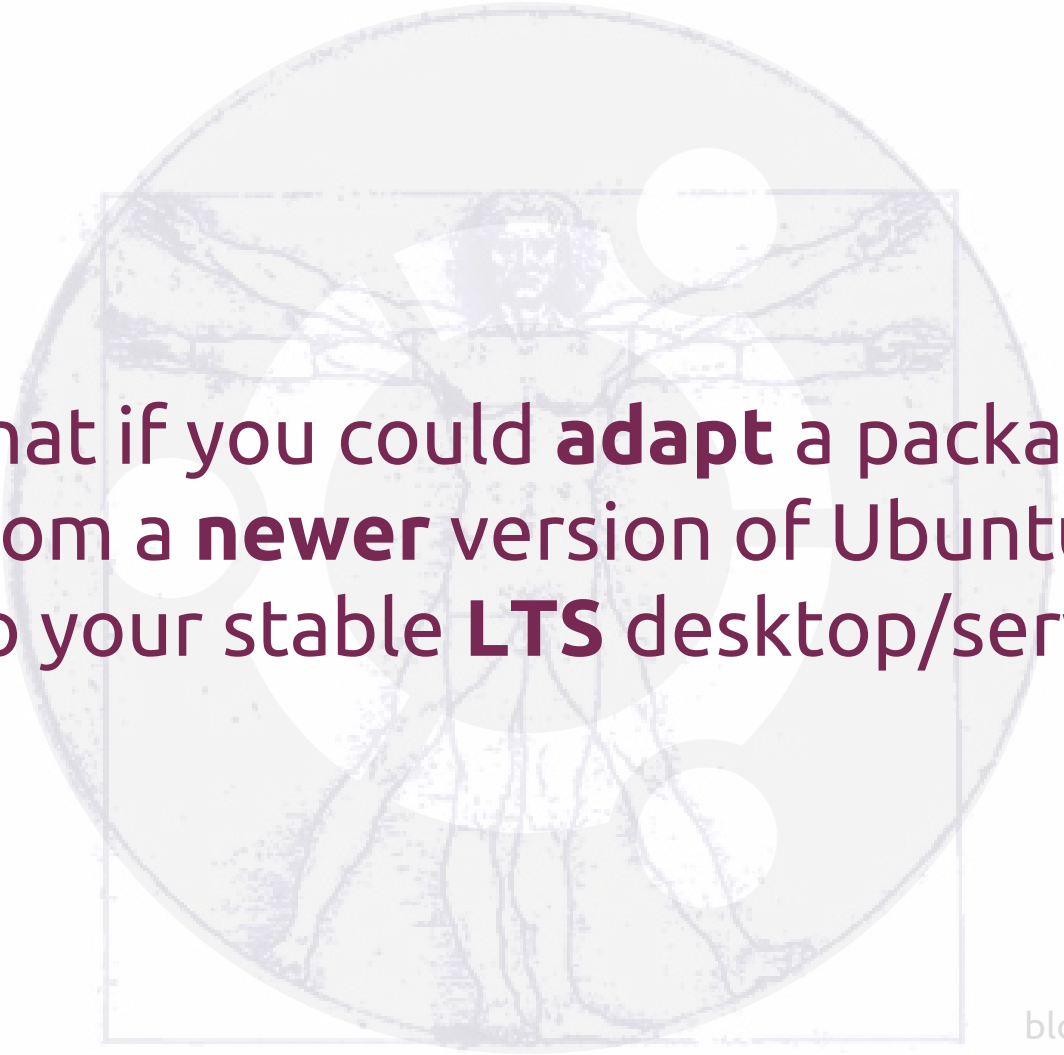
Sometimes they **don’t**...

Sometimes those updated major versions land in **Launchpad PPAs**...

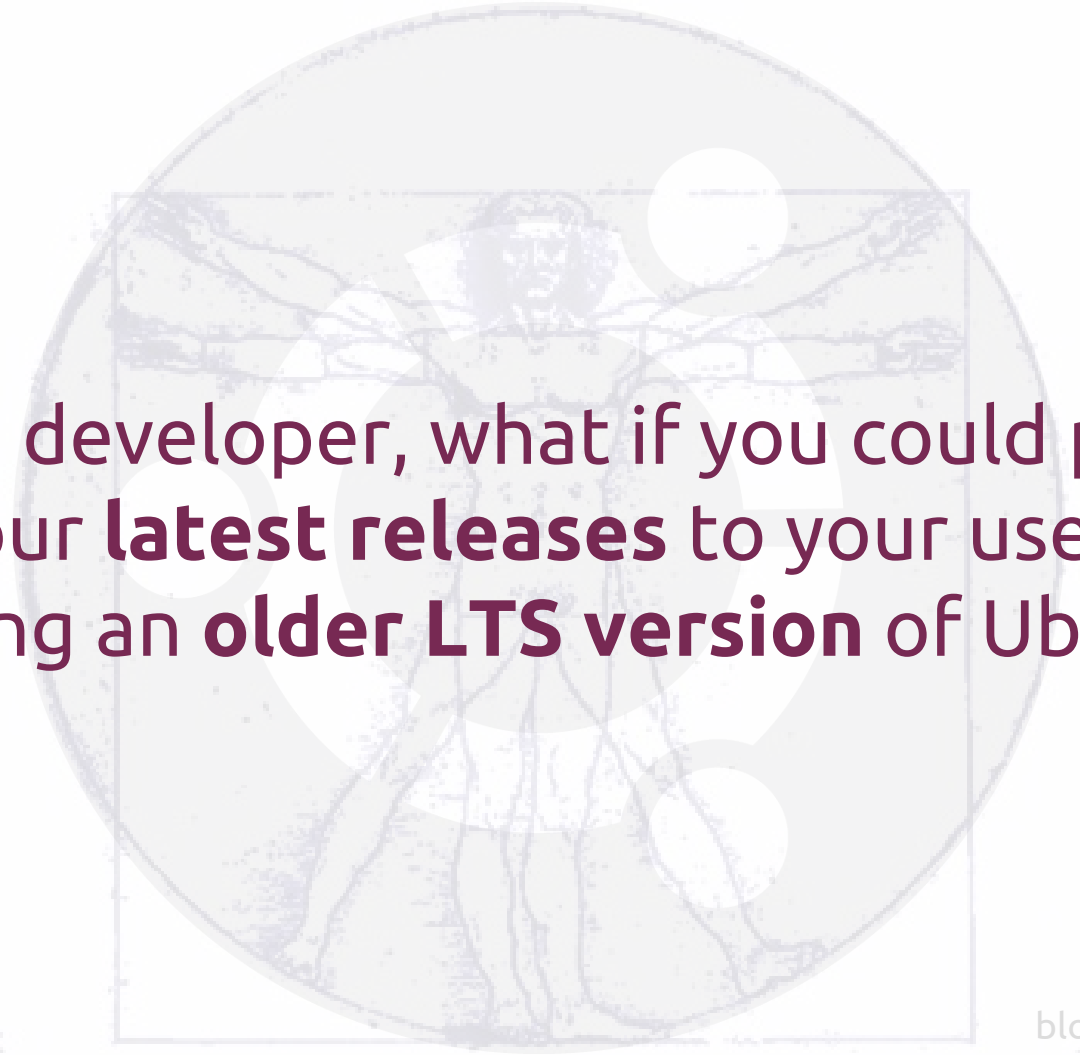

Other times they **don’t**...


And when they do,
how well **supported** are they?

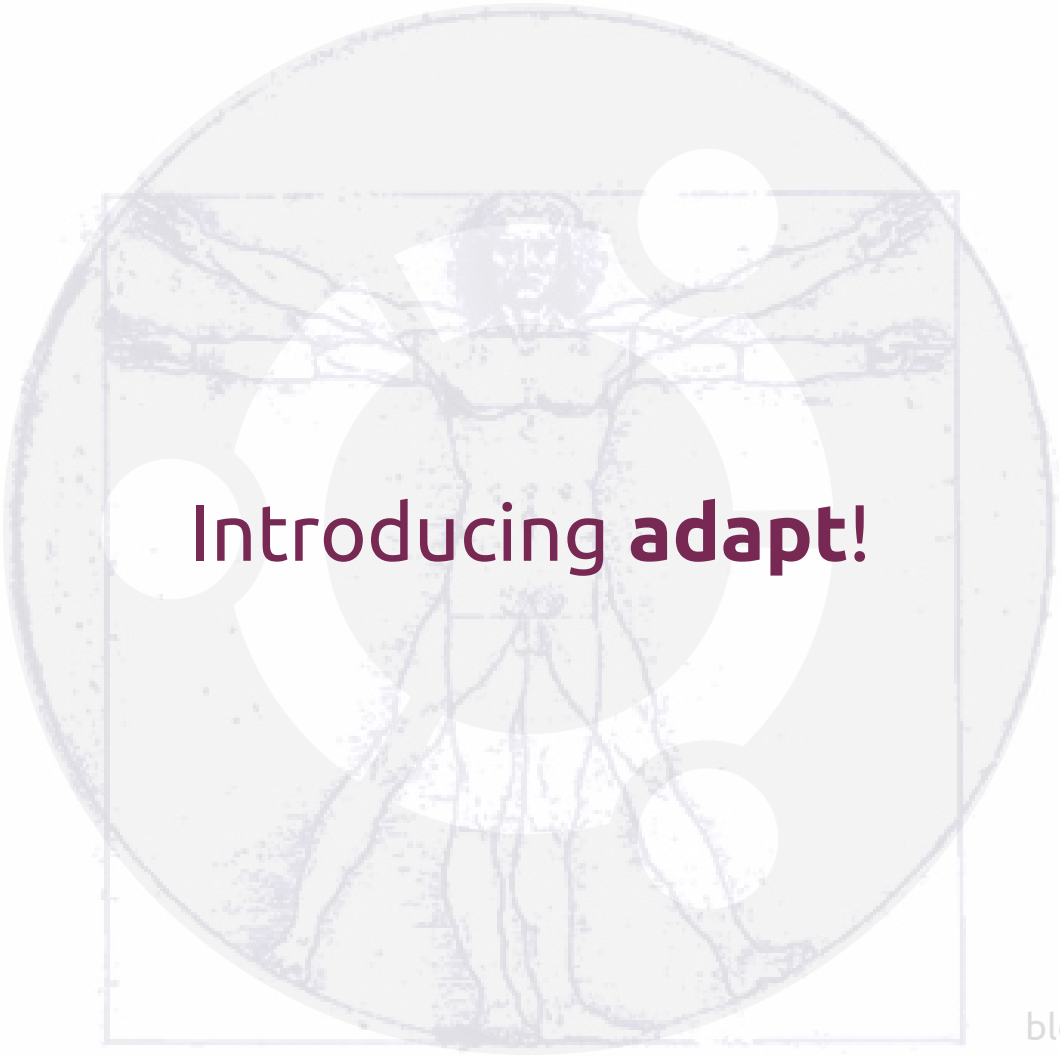
Or, from a developer's perspective,
how **supportable** are they?



What if you could **adapt** a package
from a **newer** version of Ubuntu,
onto your stable **LTS** desktop/server?



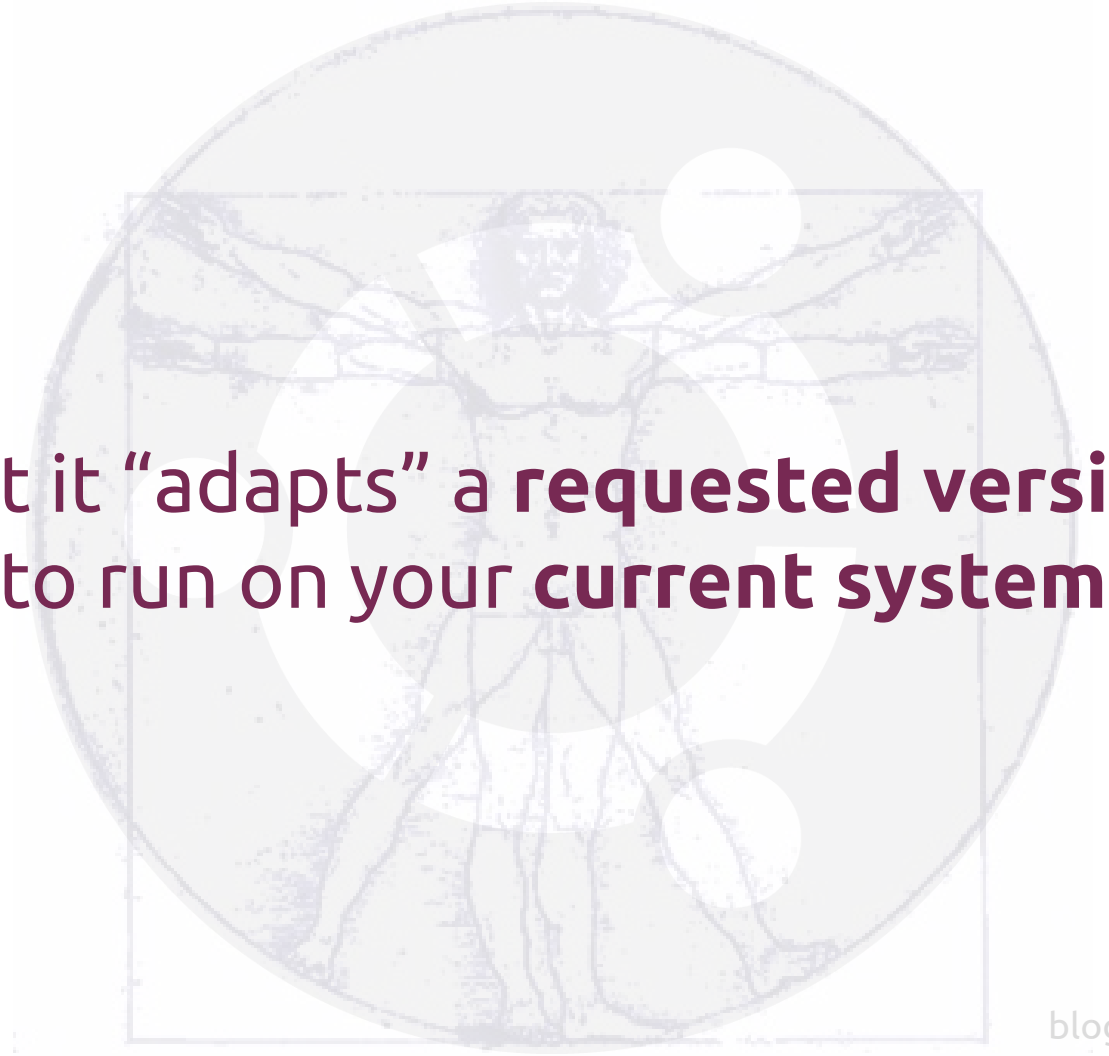
Or, as a developer, what if you could provide your **latest releases** to your users running an **older LTS version** of Ubuntu?



Introducing **adapt**!

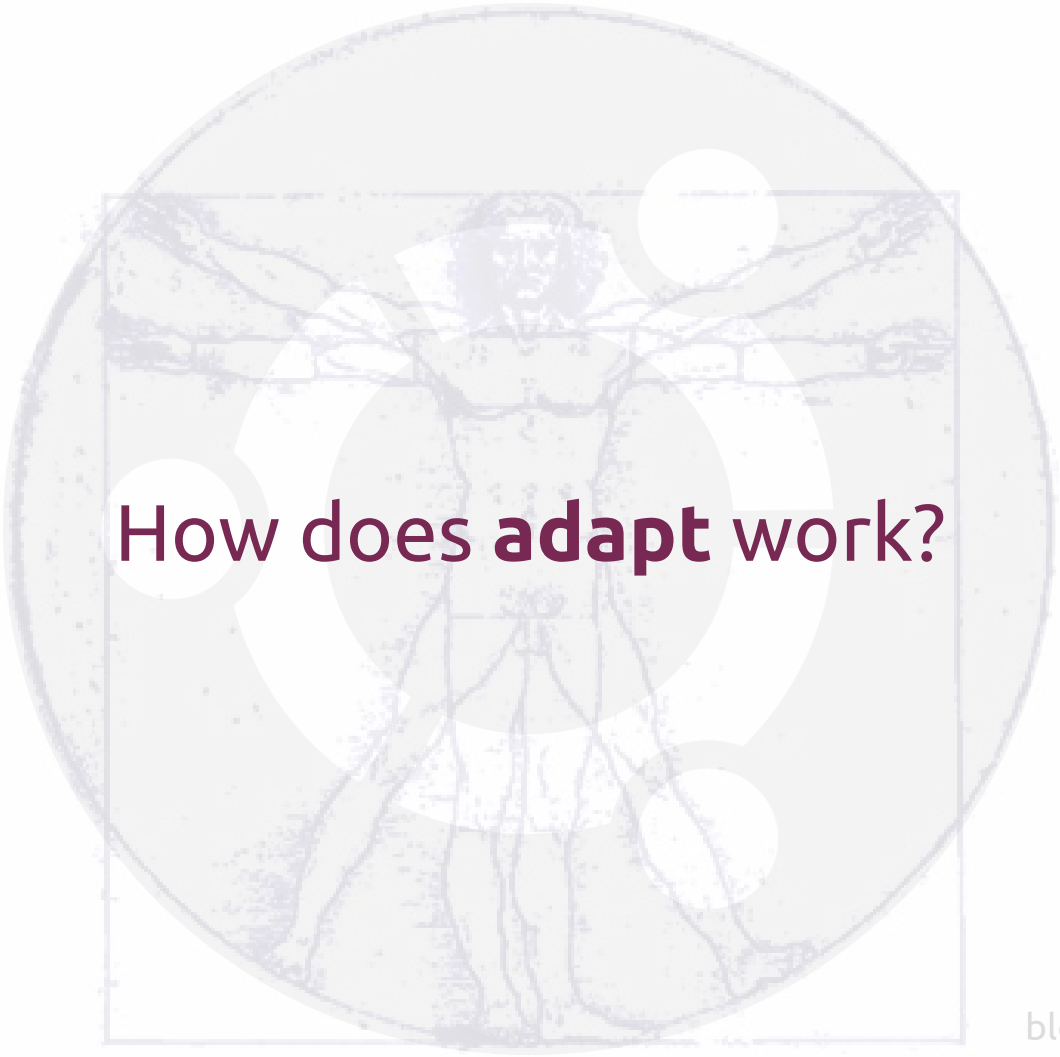
adapt is a lot like **apt**...

It’s a simple command
that installs **packages**



But it “adapts” a **requested version**
to run on your **current system**

A simple command that installs
any package from **any release** of Ubuntu
into **any version** of Ubuntu

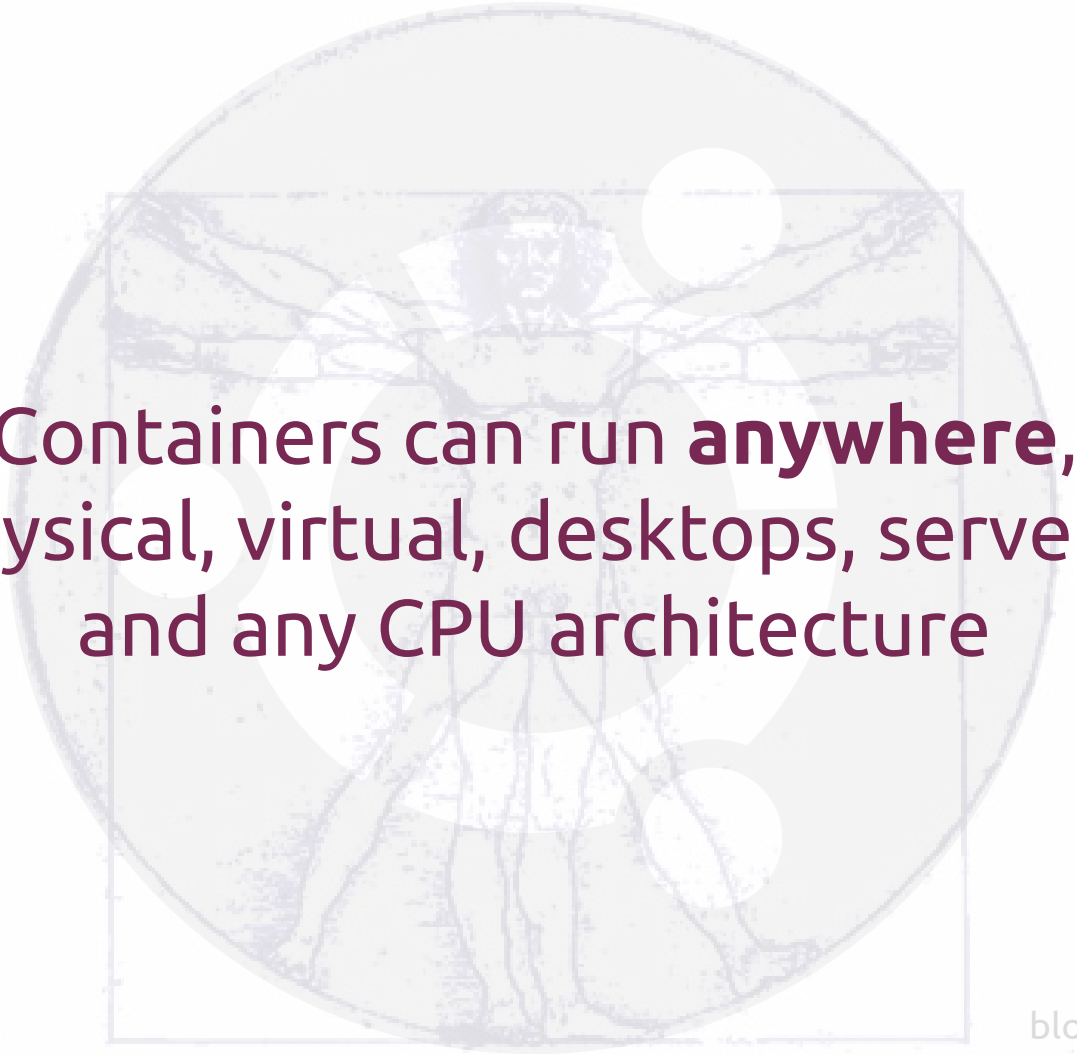


How does **adapt** work?

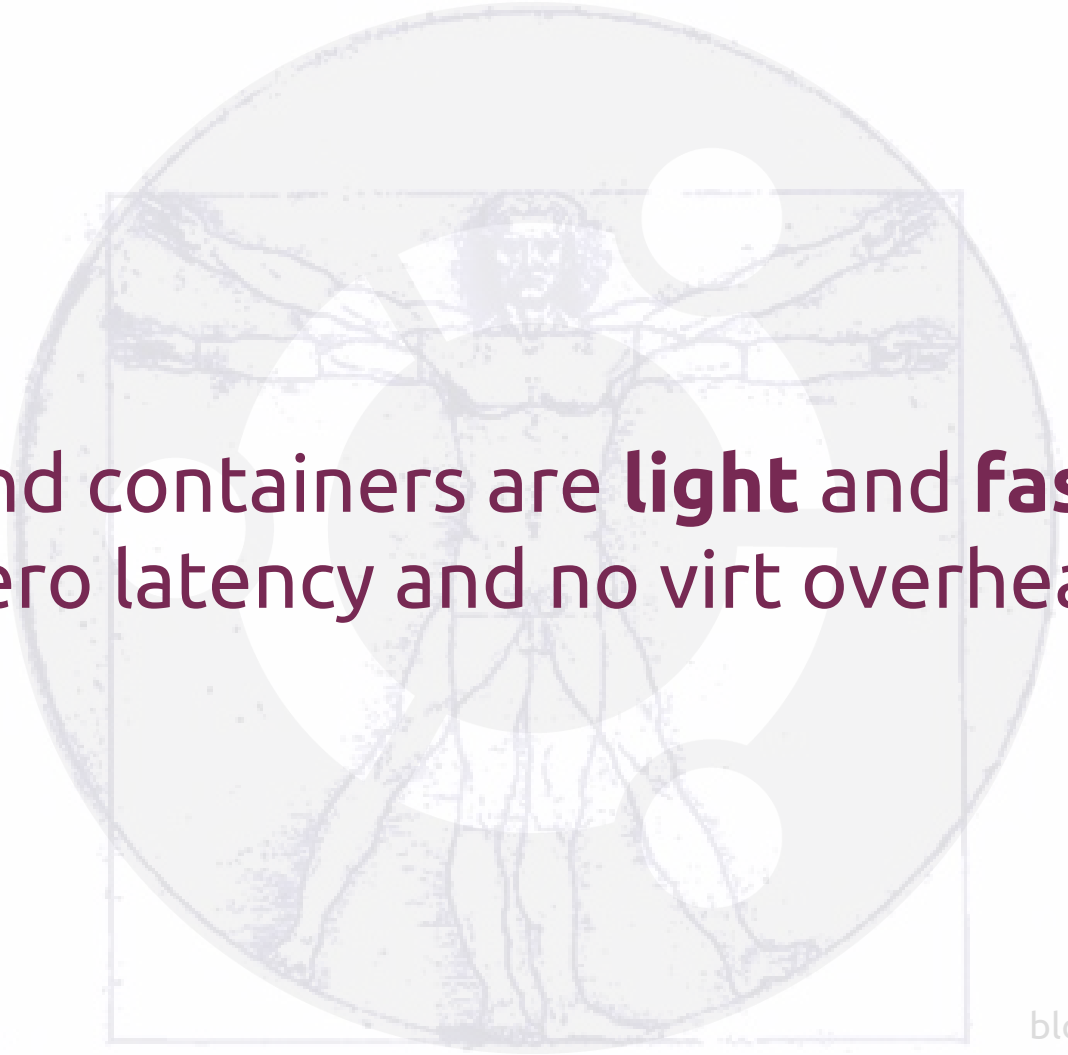
Simple…
Containers!

More specifically,
LXD system containers

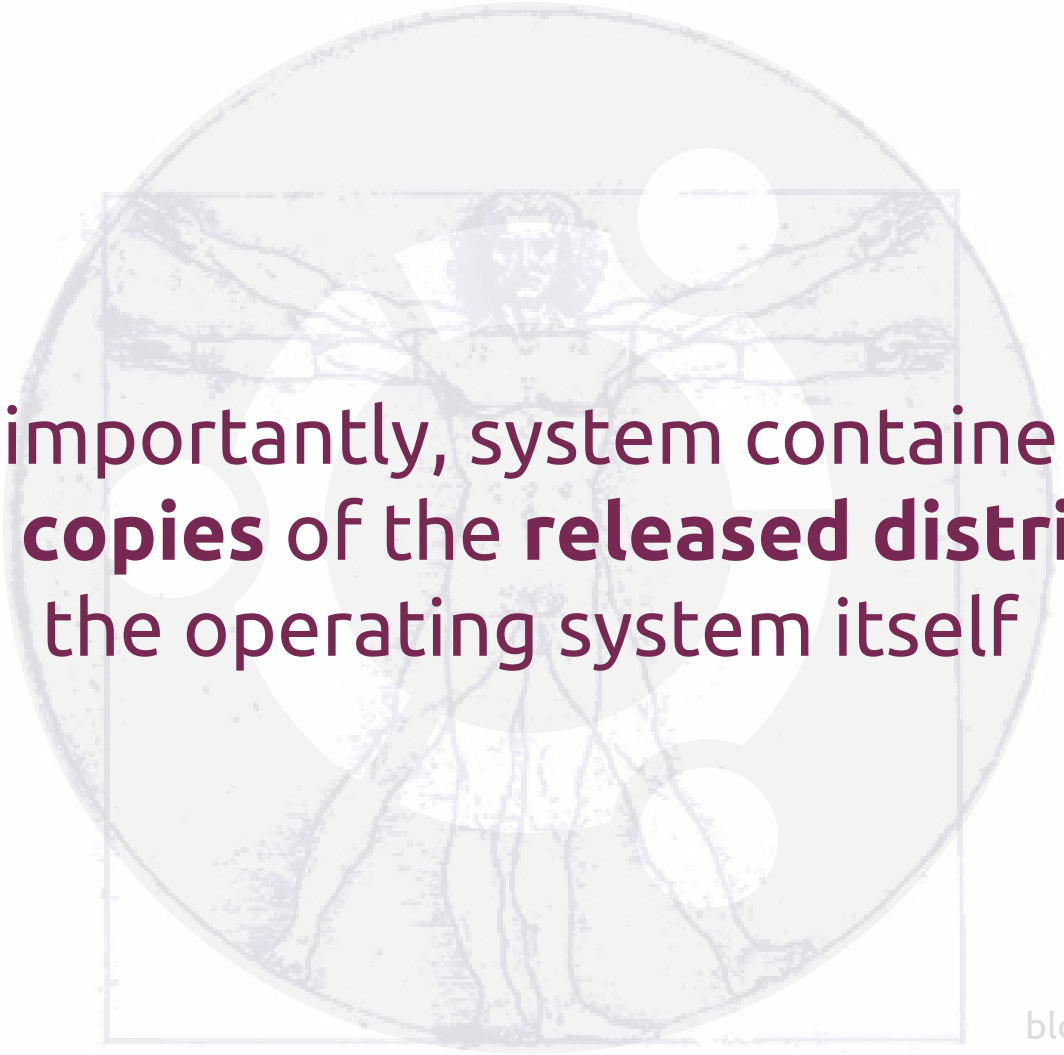
Why **containers**?



Containers can run **anywhere**,
physical, virtual, desktops, servers,
and any CPU architecture



And containers are **light** and **fast**!
Zero latency and no virt overhead



Most importantly, system containers are **perfect copies** of the **released distribution**, the operating system itself

Remember all of that
continuous integration testing
we do perform on each release?

Let's **leverage** that!

Live demo!

```
# Help
adapt help

# nginx
adapt install -p nginx
adapt list
# point browser to :80
adapt purge -p nginx

# Ansible
adapt install -p ansible
adapt run -c "ansible --version"
adapt alias -c ansible
ansible --version
adapt unalias -c ansible
adapt purge -p ansible
```

```
# gcc
adapt install -r trusty -p gcc
adapt run -r trusty -c "gcc -v"
adapt alias -r trusty -c gcc
adapt unalias -r trusty -c gcc
adapt purge -r trusty -p gcc

# golang
adapt install -r wily -p golang
adapt run -r wily -c "go version"
adapt alias -r wily -c go
adapt unalias -r wily -c go
adapt purge -r wily -p go


# Tomcat (from CentOS, just for fun...)
adapt install -d centos -r 7 -p tomcat
adapt run -d centos -c "service tomcat start"
adapt list
# point browser to :8080
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