

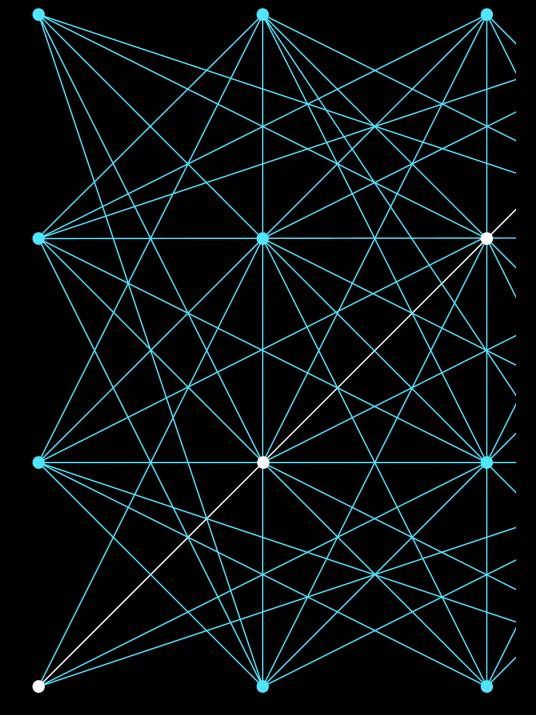
Microsoft + Open Source

Empowering every person and organization to achieve more

Microsoft's journey with Linux

René Moddejongen Director Open Source & Dev Audience Microsoft Western Europe HQ

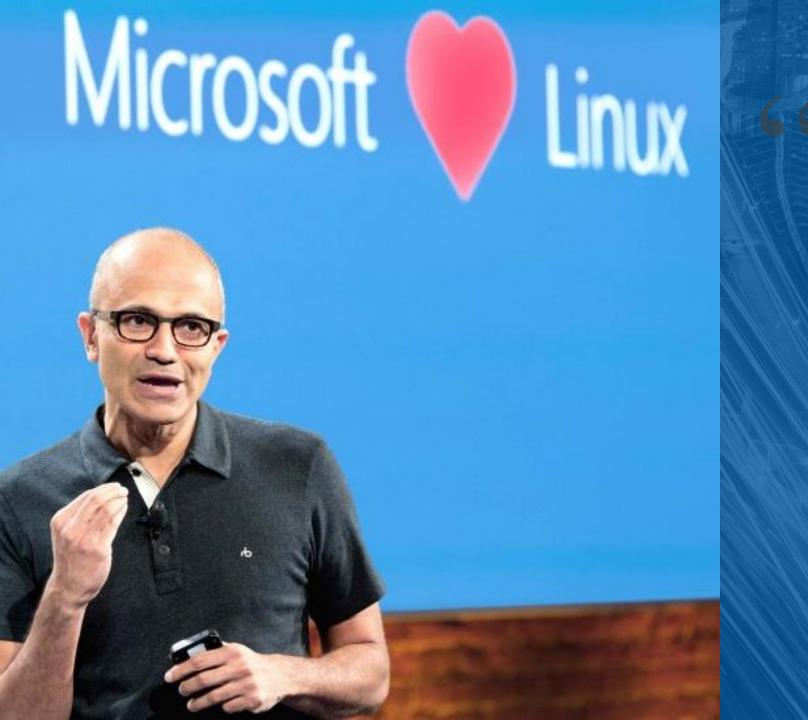




[ms@azure ~]\$ loves

Linux Linux LinuxLinux LinuxLinux xLinuxLinuxLinuxLinuxLin uxLinuxLinuxLinuxLinu LinuxLinuxLinuxLinuxLi inuxLinuxLinuxLinuxLin uxLinuxLinuxLinuxLin uxLinuxLinuxLinuxL inuxLinuxLinuxL inuxLinuxLi nuxLinuxLinu xLinuxLi nux

At Microsoft, We Love Open Source



"Judge us by the actions we have taken in the recent past, our actions today and in the future"

Open source is the biggest differentiator for organizations

+30%

more innovative

+20%

developer satisfaction and retention rates

Tech companies born with an open source mentality get it. It's our ability to work together that makes our dreams believable and, ultimately, achievable. We must learn to build on the ideas of others"

—Satya Nadella, CEO Microsoft



Open source is changing software development

>40%

CIOs have open source as primary software strategy¹

96%

deployed applications using open source software²

80-90%

of code in new applications come from open source²

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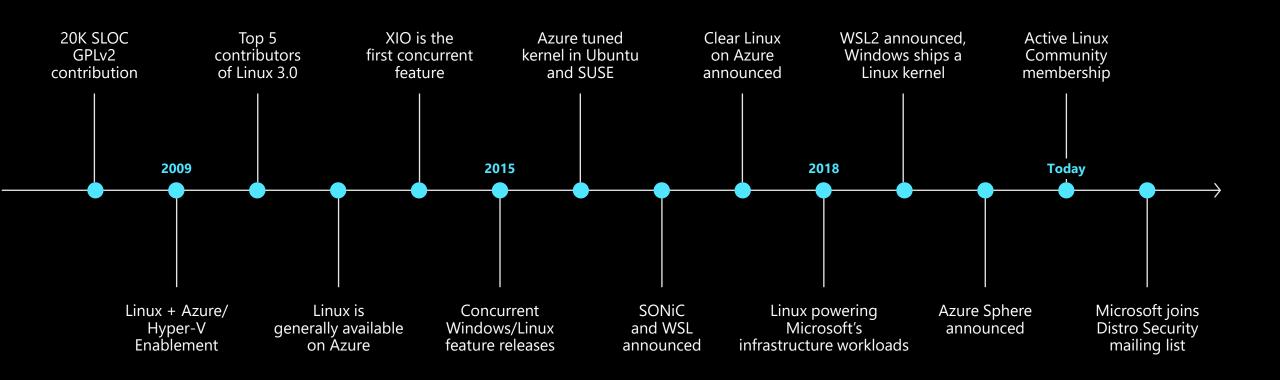
— Satya Nadella, CEO of Microsoft





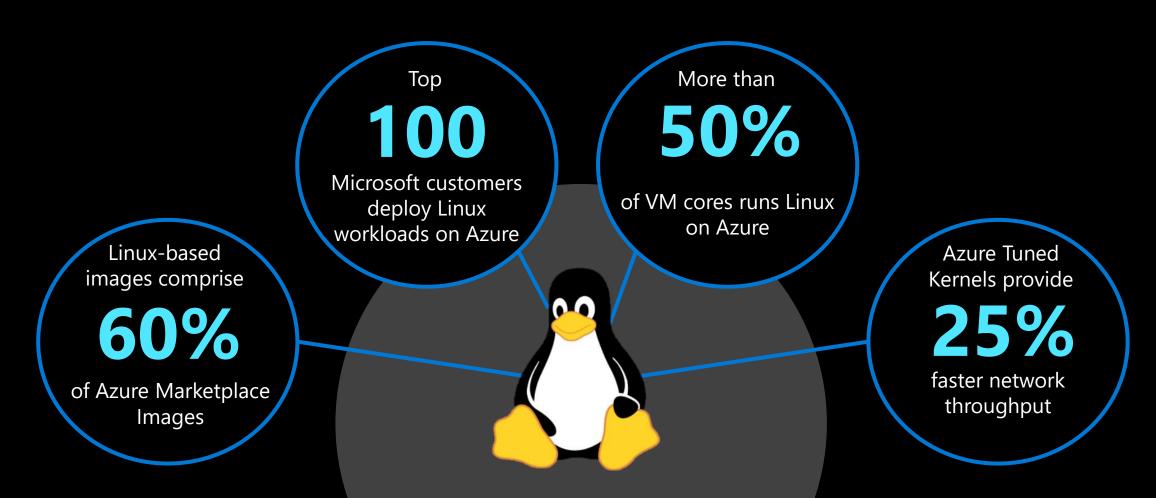
Linux in the Microsoft Cloud

A decade in the making



Did you know?

Linux is the fastest growing platform on Azure



Linux-based images comprise

ongol

amar

ithul

tudio

agios

60%

of Azure Marketplace Images Top

100

Microsoft customers deploy Linux workloads on Azure More than

50%

Of VM cores runs Linux on Azure Azure Tuned Kernels provide

25%

Joomla

Visua.

agran

Drupa.

faster network throughput

What Linux distributions can I use on Azure?

Microsoft supports all major Linux distributions like Red Hat, SUSE, Ubuntu, Oracle Linux, Debian, CentOS, FlatCar and OpenSUSE

Ter

?

Did you know FreeBSD is also supported on Azure too?

although it's not technically Linux)



Azure—best cloud for Linux

>50%

of VM cores are Linux

>60%

of Azure marketplace images are Linux-based

1/3

of Microsoft's own cloud usage runs on Linux

Top 100

Microsoft customers deploy Linux workloads on Azure

Seamless end-to-end Linux on Azure experience



Foundation

Cloud-init open standards

Fast VM creation

Reliability

High availability

Performance

Security



Full-stack view

Kernel/image building

Licensing

Operations

Image update and patching

Support & troubleshooting



Workloads

Azure Red Hat OpenShift

SQL on Linux

Azure Database for PostgreSQL

SUSE Cloud Application Platform

Oracle Interconnect

DataStax Enterprise

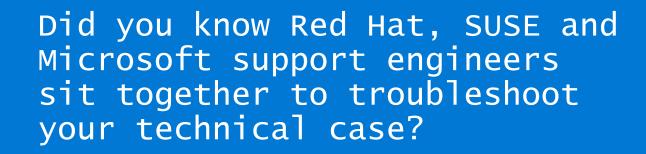
Does Microsoft provide technical support for my Linux-based workloads?

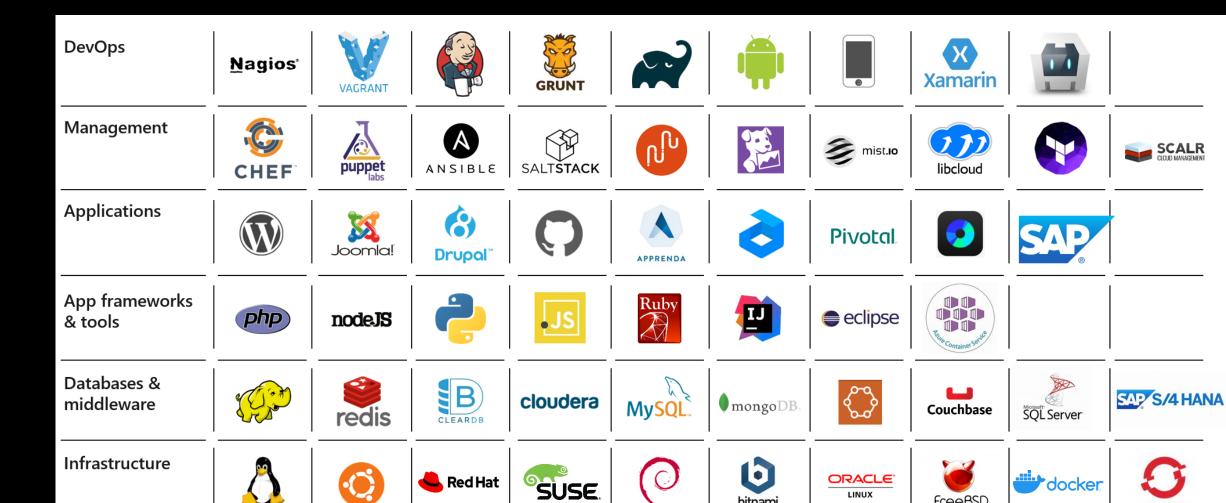
Microsoft provides unique integrated co-located support for Red Hat / SUSE / SAP and supported open source technologies running on Azure











LINUX

bitnami

FreeBSD

OPENSHIFT

Microsoft has strong partnerships across the Linux ecosystem.

Various strategic partners include:



NET Core

Redis Cache Hadoop



Node.

CANONICAL. CLOUDERA

Pivotal.

Puppet Ansible SaltStack Mist.io Terraform Wordpress Drupal





Grui

Joom.

Vagrant Nagios

Find more on Azure.com/Linux

Kubernetes OpenShift .NET Core Node.JS JavaScript Python PHP Ruby

Why are Red Hat and Microsoft allies in Open Source?



Beyond our collaboration in the hybrid cloud, Red Hat and Microsoft have also been working together extensively in open source communities, notably in bringing flagship Microsoft technologies like <u>SQL Server</u> and <u>.NET</u> to Red Hat Enterprise Linux and Red Hat OpenShift.

Paul Cormier CEO, Red Hat



Microsoft has embraced open source, because it's driven by what I believe is fundamentally what our customers expect for us to do. Which is to say: Doing what's best for both companies' customers. Microsoft has a heritage here. We were a developer tools company first and now, of course, we are all in on open source.

Satya Nadella CEO, Microsoft





Daimler embraces the cloud to innovate faster

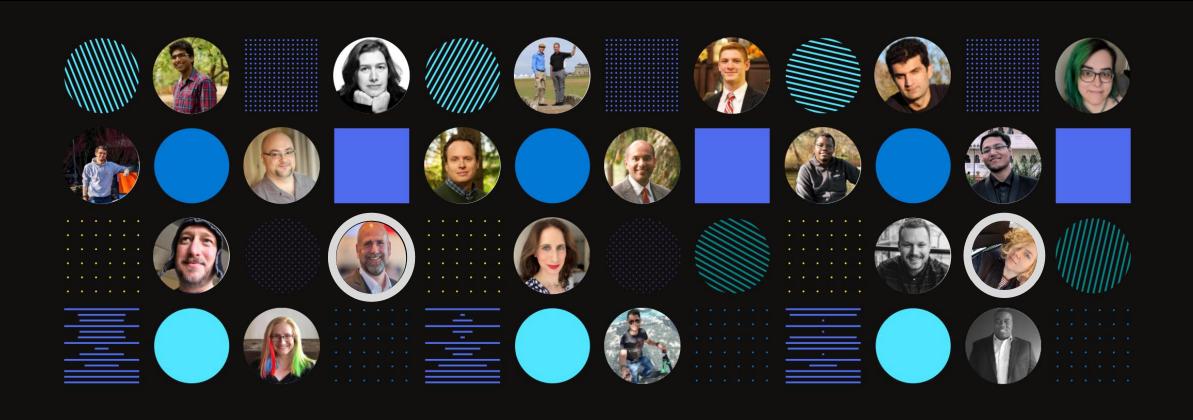


We've brought Java,
Tomcat, Docker containers,
Red Hat Enterprise Linux,
SUSE Linux, and many other
open-source tools into DevTest
Labs, and they all work great."

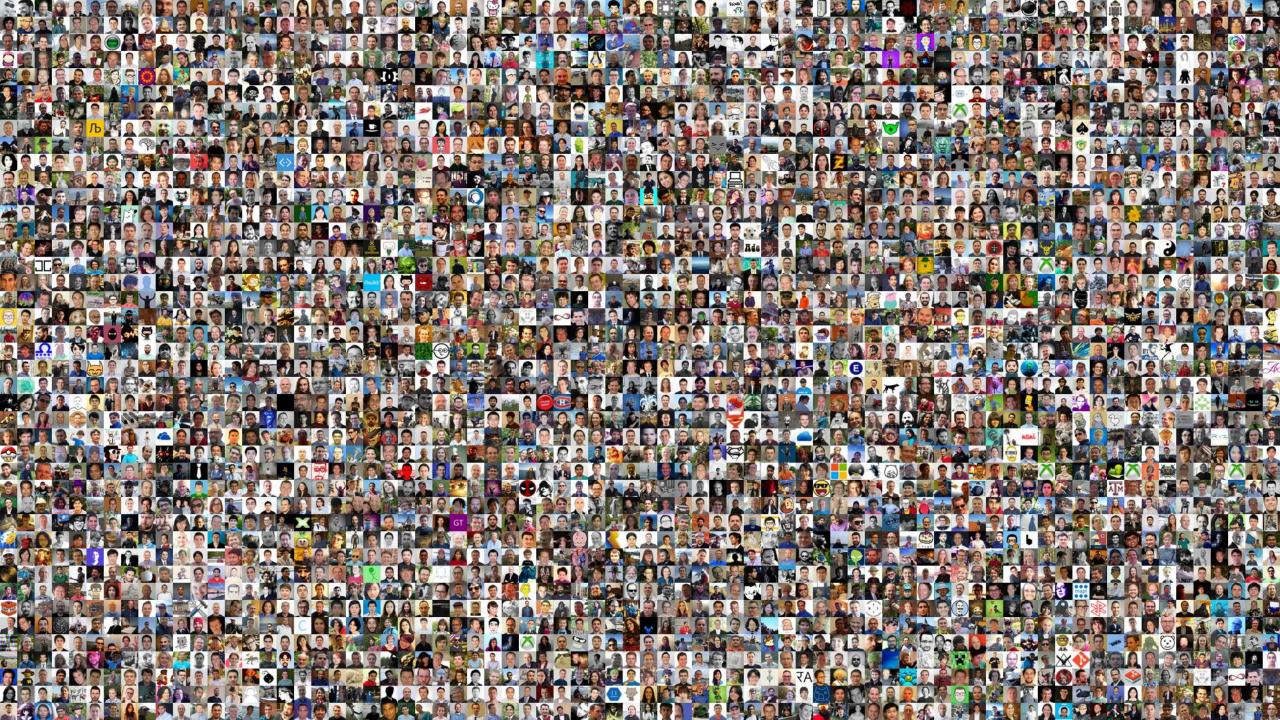
—Peter Rothlaender, Manager of Cloud Solutions
Daimler AG

DAIMLER

Building together in open source



Open. Collaborative. Flexible.



Microsoft Open Source Programs Office

Mission

"To enable individuals and organizations to achieve more through open source"

Microsoft's Open Source Programs Office makes sure we consume open source safely, provide secure solutions to our customers and participate effectively in open source software

https://opensource.microsoft.com/program/



Microsoft's Open Source Software Policy

Company-wide documented policy to make it easy for Microsoft developers to use open source







Using open source

Contributing to open source

Releasing open source software

We share some of our policy publicly on the opensource.microsoft.com site under "Our programs"

Microsoft's contributions to Open Source



Linux

Linux Integration Services

IPE

LISA testing framework SMB3/CIFS & NFS



Cloud Native

Moby & Kubernetes

Dapr & OAM

Akri

Helm & CNAB

Open Service Mesh



Languages

.NET / C#

Node.js

Python

Rust

Golang

OpenJDK



Data + Al

Spark & YARN

PostgreSQL

Pandas

Tensorflow

ONNX



Web

Bootstrap

Webpack

Babel

Vue.js

Foundations



Alliance for Open Media















































Azure open source ecosystem

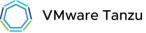
Building open solutions jointly with partners, customers, and community







Joint engineering







Joint operations







Joint support



Integrated billing

Integrated identity

Integrated security









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Microsoft's journey with Linux

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