

The most personal insurer in Switzerland at a glance



Nr. 1 in Switzerland for household contents, business and pure risk life insurance.

Founded in 1826

5334





342 of which are trainees



160 locations

79 general agencies and their roughly 80 agency offices ensure that we are close to customers throughout the country.



Nine out of ten claims

are settled locally and directly by our general agencies.

la Mobilière



This is the amount we voluntarily remit to customers from our surplus fund.



Swiss Mobiliar's 24 h Assistance service is available for customers around the clock, 365 days a year.



CHF 3.8 bn

We managed to raise the premium volume by 3.2% in the year under review

CHF 440.5 m

Swiss Mobiliar once again posts an outstanding annual profit.

2 m

Private individuals and corporate customers place their trust in us.

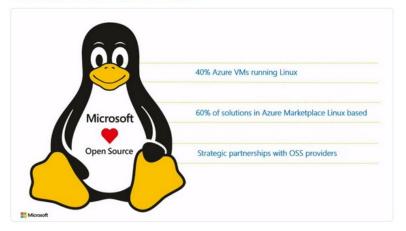
Agenda

- Introduction / Microsoft & Open Source
- Linux VMs on Azure
- Azure Active Directory Integration
- Deploy Linux on Azure
- Monitoring Linux Virtual Machines
- Business Continuity for Linux VMs
- Q&A

40% Azure VMs running Linux



Did you know that 40% of #VirtualMachines in #Azure are running #Linux? #FutureDecoded #Dev

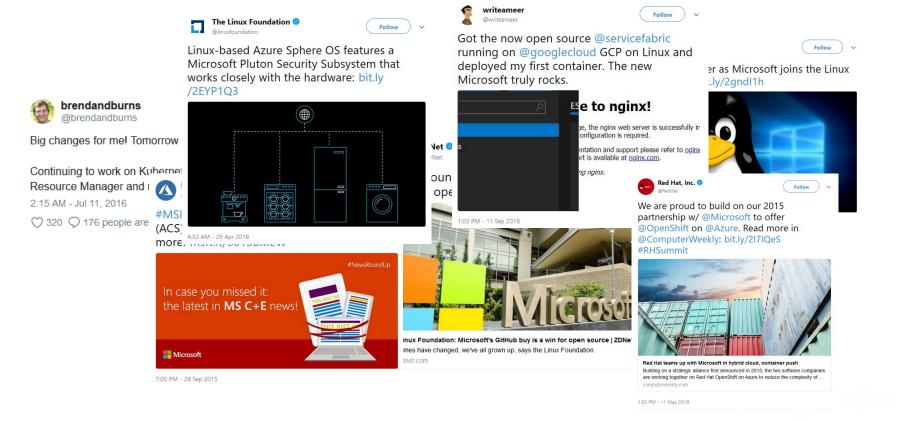


60% of solutions in Azure Marketplace Linux based

Strategic partnerships with OSS providers

3:09 PM - 31 Oct 2017

Microsoft and Linux



Azure Linux Support Team

Support for Linux on Azure

Sort by: Most Recent | Most Comments

/var/empty/sshd must be owned by root and not group or world-writable

January 30, 2018 by Vittorio Franco Libertucci // 0 Comments

Problem Statement: You are attempting to ssh into a Linux VM and are unsuccessful. We have seen customers modify key sshd configuration files and upon restarting sshd or rebooting the VM connectivity is lost. symptoms/errors experienced The serial or console log may exhibt errors such as this: SuSE /var/empty must be owned by root and... Read more

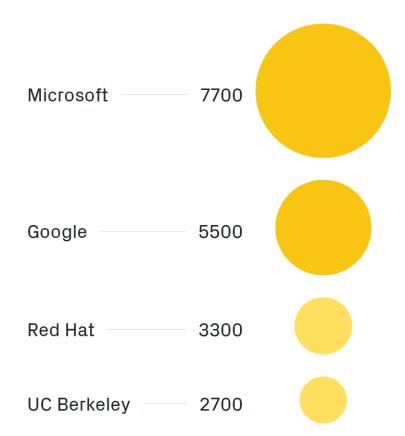
Categories: Linux

Microsoft V OpenSource

> ORGANIZATIONS COMMITTING TO OPEN SOURCE

Open source contributions made by employees of different organizations

Open source development is driven by millions of paid and volunteer developers—and many of the organizations that employ them. Microsoft, Google, Red Hat, Intel, and a number of universities top the list of organizations whose employees contribute most to open source. **



Microsoft V OpenSource

Top open source projects

VS Code, React, and Tensorflow once again top our list of open source projects by contributor count. New to the list are projects that manage containerized applications, share Azure documentation, and consolidate TypeScript type definitions: Kubernetes, Azure Docs, and DefinitelyTyped. **

		Contributors
1	Microsoft/vscode	19 k
2	facebook/react-native	10 k
3	tensorflow/tensorflow	9.3 k
4	angular/angular-cli	8.8 k
5	MicrosoftDocs/azure-docs	7.8 k
6	angular/angular	7.6 k
7	ansible/ansible	7.5 k
8	kubernetes/kubernetes	6.5 k
9	npm/npm	6.1 k
10	DefinitelyTyped/DefinitelyTyped	6.0 k

Endorsed Distributions







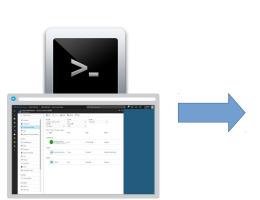


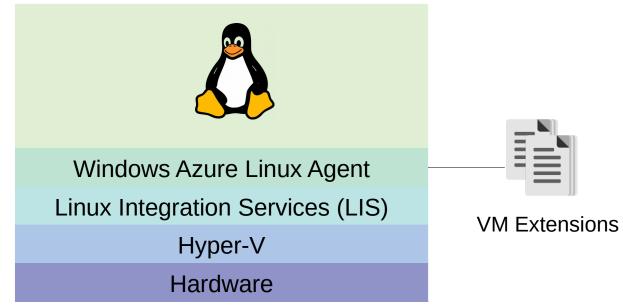






Linux Provisioning





Linux Integration Services (LIS)

- Drivers to integrate with Hyper-V and Azure
- Present in kernel of endorsed distributions
 - May need to be installed on generic and/or to get the latest update
 - Latest download: LIS 4.2 (August 2018)
 - Source at https://github.com/LIS/

Linux VM Agent

What it will do

- Provision/manages VM Required for every Linux VM on Azure
- interaction with the Azure Fabric Controller
- Managing VM Extension

How to get it

- If you create a VM from gallery, it is already included/configured by the distro vendor
- RPM and Deb packages available from some distributions
- If you create your own custom image, install it via GitHub and manually configure it

VM Extensions

- Enable main VM functionalities after provisioning
 - Offered by trusted 3rd parties or Microsoft
- Supports both Windows & Linux
- Access through multiple Interfaces
 - Management portal
 - Azure PowerShell cmdlets
 - Azure CLI
- Deployed by Azure Linux Agent

Azure AD Integration (Preview)

- Currently available for CentOS, Debian, RHEL and Ubuntu
- Use Azure AD authentication for Linux VMs, you centrally control and enforce policies that allow or deny access to the VMs.

Deploying Linux VMs

- Azure Portal
- Azure Resource Manager
- Azure CLI
- Azure PowerShell
- Terraform
- Chef, Puppet & Ansible

Azure CLI

- Multi-platform command line experience for Azure
- Best used for building automation scripts that work against ARM
- https://github.com/Azure/ /azure-cli



Terraform

- Tool for building, changing, and versioning infrastructure safely and efficiently.
- Supports 70+ providers (e.g. AWS, Azure, VMware vSphere, Kubernetes, PostgreSQL, MySQL, etc.)
- Terraform separates the planning phase from the execution phase



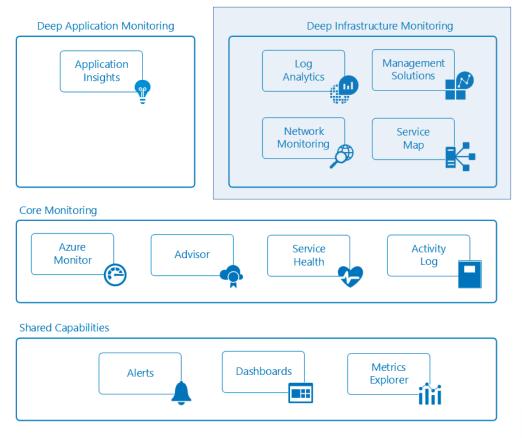
Chef, Puppet & Ansible

- Provides seamless integration with Azure
- Automate the entire lifecycle of your Azure infrastructure, from initial provisioning through application deployment.
- Chef Client and Puppet Agent both available as Azure VM extensions
- Chef and Ansible are pre-installed in Azure Cloud Shell

```
knife azure server create --azure-dns-name 'test01' --azure-vm-name 'testserver01' --azure-vm-size 'Small' --azure-storage-account 'portalvhdsxxxx' --bootstrap-protocol 'cloud-api' --azure-source-image 'a699494373c04fc0bc8f2bb1389d6106__Windows-Server-2012-Datacenter-201411.01-en.us-127GB.vhd' --azure-service-location 'West Europe' --winrm-user azureuser --winrm-password 'myPassword123' --tcp-endpoints 80,3389 --r 'recipe[webserver]'
```



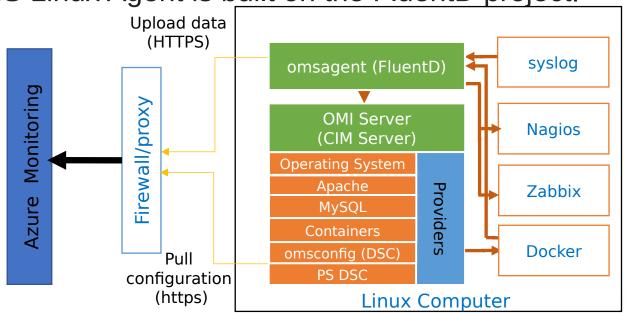
Monitoring



Monitoring Linux Agent + FluentD

 FluentD is an open source data collector for unified logging layer.

OMS Linux Agent is built on the FluentD project.



Business Continuity with Linux

- Azure Backup
 - Use Azure Backup to protect and restore data at a more granular level.
- Azure Site Recovery
 - Replicate the configuration and data on a VM across another datacenter

Azure laaS VM Backup

- Backup VMs once-a-day
- No agent installation needed
- Application-consistent backup using pre-script and post-script framework
- Granular file recovery
- Restore all VM disks
- VM restore



Resources

- Create free Azure account today
- Azure CLI
- Terraform on Azure
- Cloud-init support for VMs in Azure
- Monitor Azure Services in Grafana
- OMS Agent for Linux



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Hewlett Packard Enterprise e-shelter





















