



SUSE workloads on Microsoft Azure

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Agenda

Microsoft and SUSE partnership

Collaborative support

Provision SUSE Linux VM in Azure with Terraform

SUSE products for your workloads

Collaboration success stories

Q&A





Key Highlights

First optimized Linux Kernel on Azure

SUSE HPC images to enable InfiniBand interface

SQL on SUSE Linux Enterprise Server (SLES) 12 SP2

High Availability with Pacemaker

Collaborative support





A Deep Alliance Partnership Dedicated to your Success

SUSE and Microsoft are committed to delivering new innovation for our joint customers that will enhance agility and drive digital transformation.



Decades of Collaboration

10+ years – SUSE has been partnering with Microsoft for over a decade to support our joint customers

20 years – SUSE and Microsoft have been working with SAP for 20 years driving enterprise customer success



Enterprise Support Offerings

Seamless support, wherever the case is opened. Long Term Service Pack Support (LTSS) availability for flexibility in scheduling migrations and more time for you to test. Unified system management, 24x7 Linux support for enterprise applications from Microsoft and SUSE. Growing with us is easy using Pay-G pricing and Microsoft Enterprise Agreements.



Engineering and Innovation

SUSE and Microsoft are closely collaborating to enable your SAP environments on Azure with high-availability, optimized tuning and performance, and reliability you can depend on.





Collaborative Support

Seamless collaborative process between both Microsoft and SUSE to jointly troubleshoot the issue and drive to resolution

On-site SUSE engineer co-located with Microsoft support teams

Strong Governance model and shared goals

Long term vision to completely integrate and automate support experience





Support Offerings

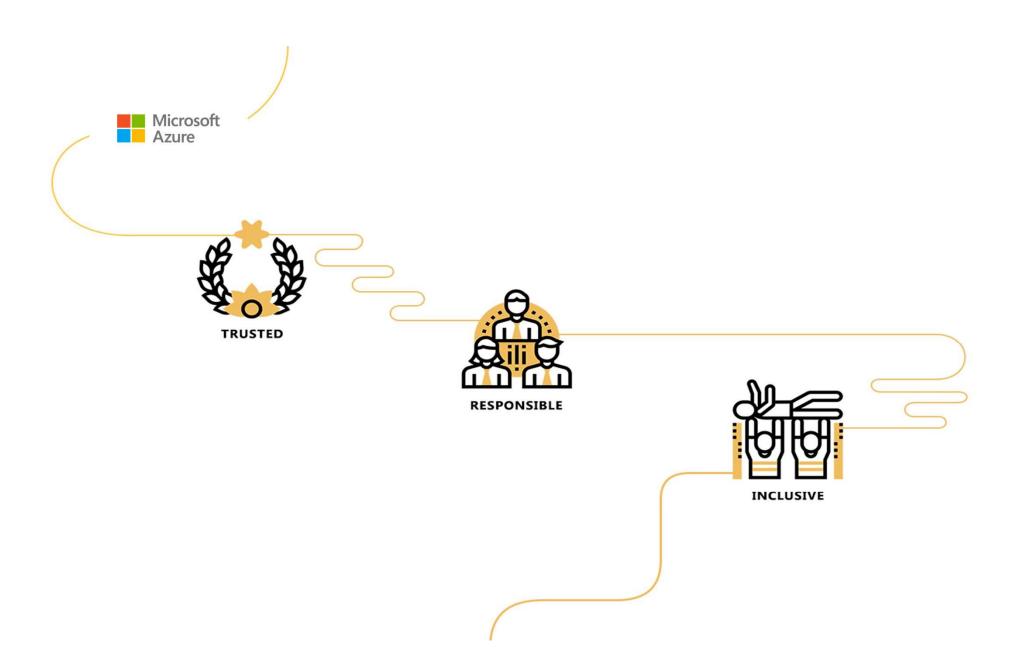
Usage Model	Support Contact	Escalation Support
BYOS	6 P	
PAYG	Microsoft Azure	

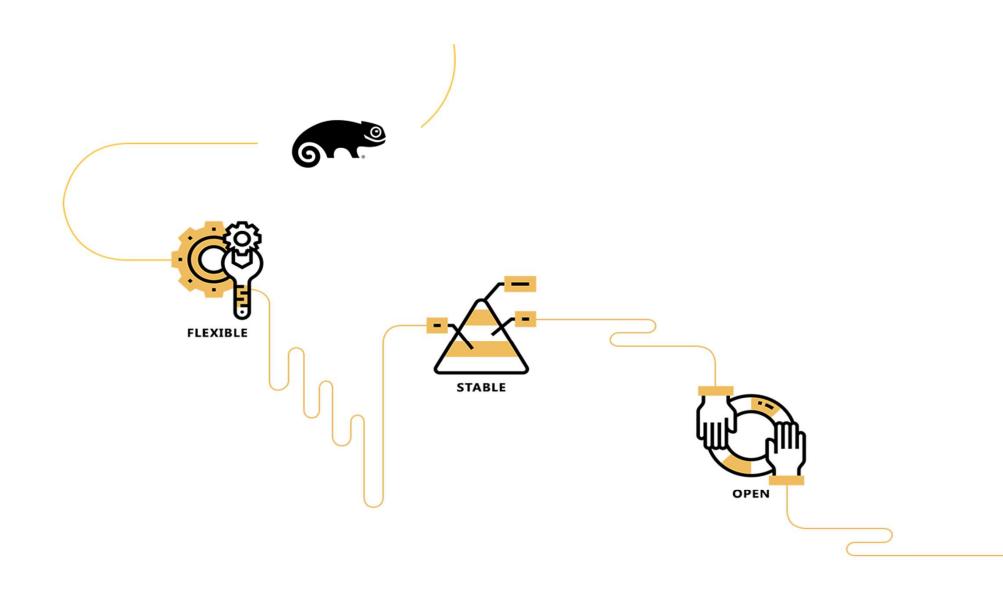
SAP HANA Large Instance customers are required to have a Microsoft Premier agreement and SLES for SAP entitlement to support their Mission Critical Workloads





Your vision. Your cloud.









OS deployment checklist

Review to validate whether you need to build your own image or not





Azure marketplace SUSE images

To choose either BYOS or PAYG Image





Azure VM Instance Portfolio































Pick the VM size which meets your network and storage requirements





OS deployment checklist

Recommend to automate your infrastructure deployment





Automate your infrastructure deployment

Resource manager templates

Terraform





How to setup terraform access to Azure

To enable Terraform to provision resources into Azure, create an Azure AD service principal.

az ad sp create-for-rbac --role="Contributor" --scopes="/subscriptions/xxxxyyyy-zzzz"

Save appId, password, sp_name, and tenant.

The service principal grants your Terraform scripts to provision resources in your Azure subscription.





Infrastructure deployment using terraform

Create configuration file

terraform_suse_deployment.tf

Note: Configuration files can be in either of two formats: HashiCorp Configuration Language (HCL), or JSON.

Initialize terraform deployment

terraform init

Preview the action

terraform plan

Apply terraform plan

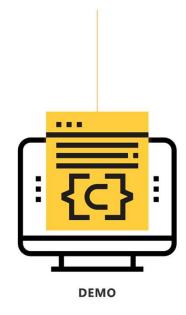
terraform apply

Destroy terraform managed infrastructure

terraform destroy











SUSE products

SUSE Linux Enterprise Server for SAP



High Availability Extension





SAP in Azure

Reduce TCO of SAP deployment

Combine bare-metal large instances and VMs with SAP landscape

SAP Certified infrastructure

Single point of contact for resolution management









SUCCESS



SUSE

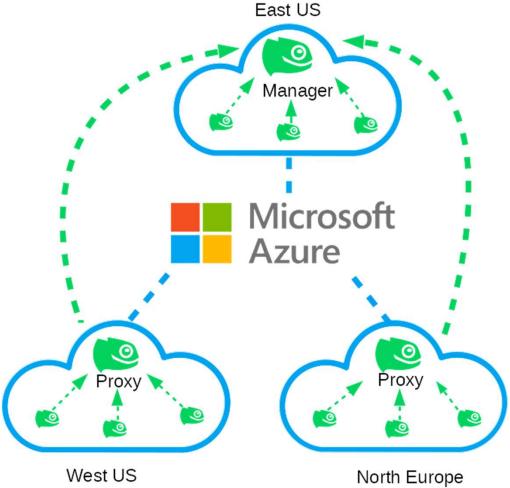
SUSE Manager

Scalable and centralized management for cloud infrastructure

Ability to bootstrap BYOS and PAYG instances

SUSE Manager Server can be on-prem or in cloud

Proxy in local regions keeps software close to instances





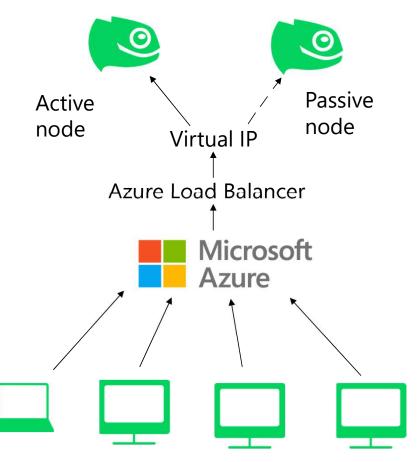


High Availability Extension

Virtualized hardware combined with highly available services through pacemaker help to minimize down time

Available with BYOS images and SUSE subscription with HAE

Azure load balancer + IPaddr2 OCF resource help to automate failover







Q. But what happens when something goes wrong?

A. Industry leading collaborative support will help!





Rapid Resolution Time



Defect reported with kernel-azure



Confirmed with support process



Bug filed and problem identified



Fix in KOTD <48 hours after initial contact





Preventing Rebuild

Engaged by Azure Linux Esc. Team

System not finding bootloader

Found MBR was corrupted (right)

Researched partition boundaries, rebuilt MBR from scratch and reinstalled GRUB

System boots again with data intact

```
grant@grant-opensuse-laptop:~>
```





Questions

Microsoft Booth @Expo Floor 305

Come visit us at Microsoft Booth #305 If you have any further questions!

And we've got SWAGs for you :D

Visit <u>Azure.com/Linux</u> <u>Azure.com/SUSE</u> for more details

