



宁夏区域
由西云数据运营



西云数据
云载未来 · 成就所托

西云合力SUSE，助力企业转型

西云数据战略合作及行业解决方案部
高级顾问 徐志平



- ① 西云数据简介
- ② AWS简介
- ③ SAP on AWS

① 西云数据简介

② AWS简介

③ SAP on AWS

亚马逊 AWS中国（宁夏）区域云服务运营方



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RE-used

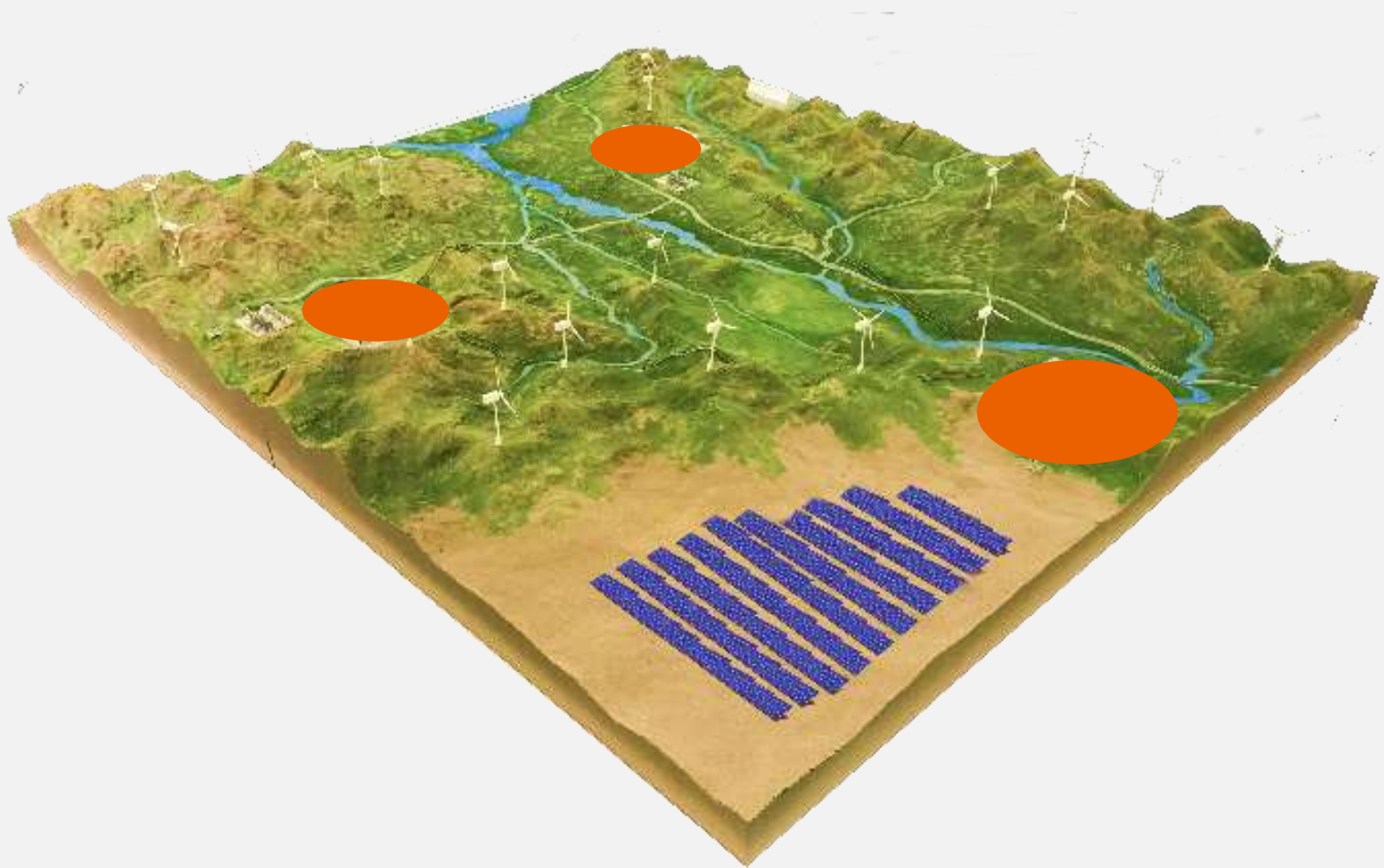
宁夏西云数据科技有限公司（简称“西云数据”）是 AWS 中国 (宁夏) 区域云服务的运营方和服务提供方。AWS 为西云数据的战略技术合作伙伴并向西云数据提供技术服务和技术支持。

西云数据成立于 2015 年，是一家持有互联网数据中心服务和互联网资源协作服务牌照的云服务提供商。2017 年 12 月 12 日，西云数据正式推出 AWS 中国 (宁夏) 区域云服务，现已开通 3 个可用区。西云数据市场销售总部设立于北京，在全国多地设有分支机构以服务全国各地的企业客户。西云数据致力于将世界先进的 AWS 云计算技术带给中国客户，为客户提供优质、安全、稳定、可靠的云服务，全力支持中国企业和机构的创新发展。

西云数据承诺尽可能多地使用可再生能源



我们承诺使用尽可能多的可再生能源来支持您的业务，为地球可以持续发展贡献你我的力量



① 西云数据简介

② AWS简介

③ SAP on AWS

在需要的地方快速部署您的业务

AWS全球共有

21个区域

66个可用区

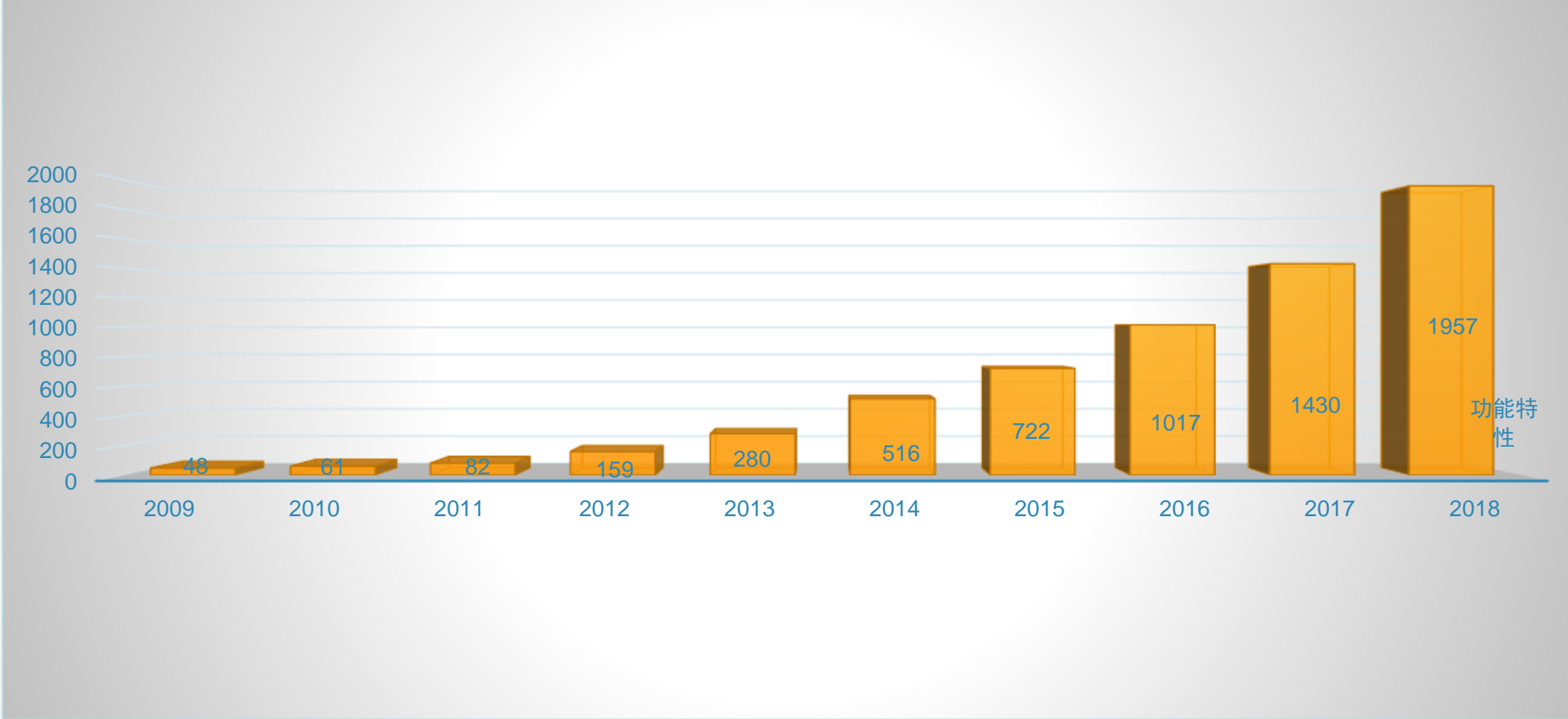
169个边缘站点



即将新增雅加达、巴林、开普敦、米兰4个区域，12个可用区
部署资源的国家有1到多个区域，每个区域有不少于2个可用区
可用区之间通过高速光纤互联，每个可用区有多个数据中心机房

了解更多: <https://aws.amazon.com/about-aws/global-infrastructure/>

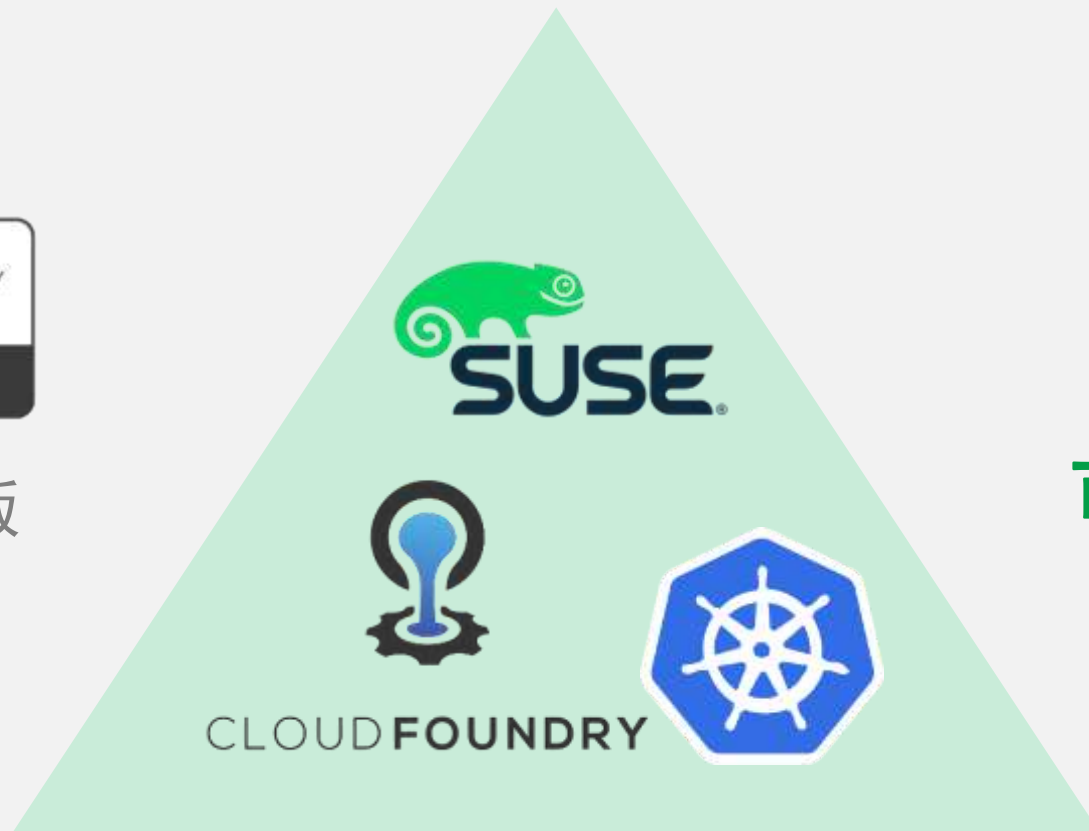
持续的云创新



SUSE 云应用平台



社区认证的发行版



可以安全部署



基于SUSE CaaS平台

在AWS Console中选择SUSE

aws Ningxia Region | Beijing Region
Operated by NWCD | Operated by Sinnet



Services

1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

Quick Start (2) 1 to 2 of 2 AMIs

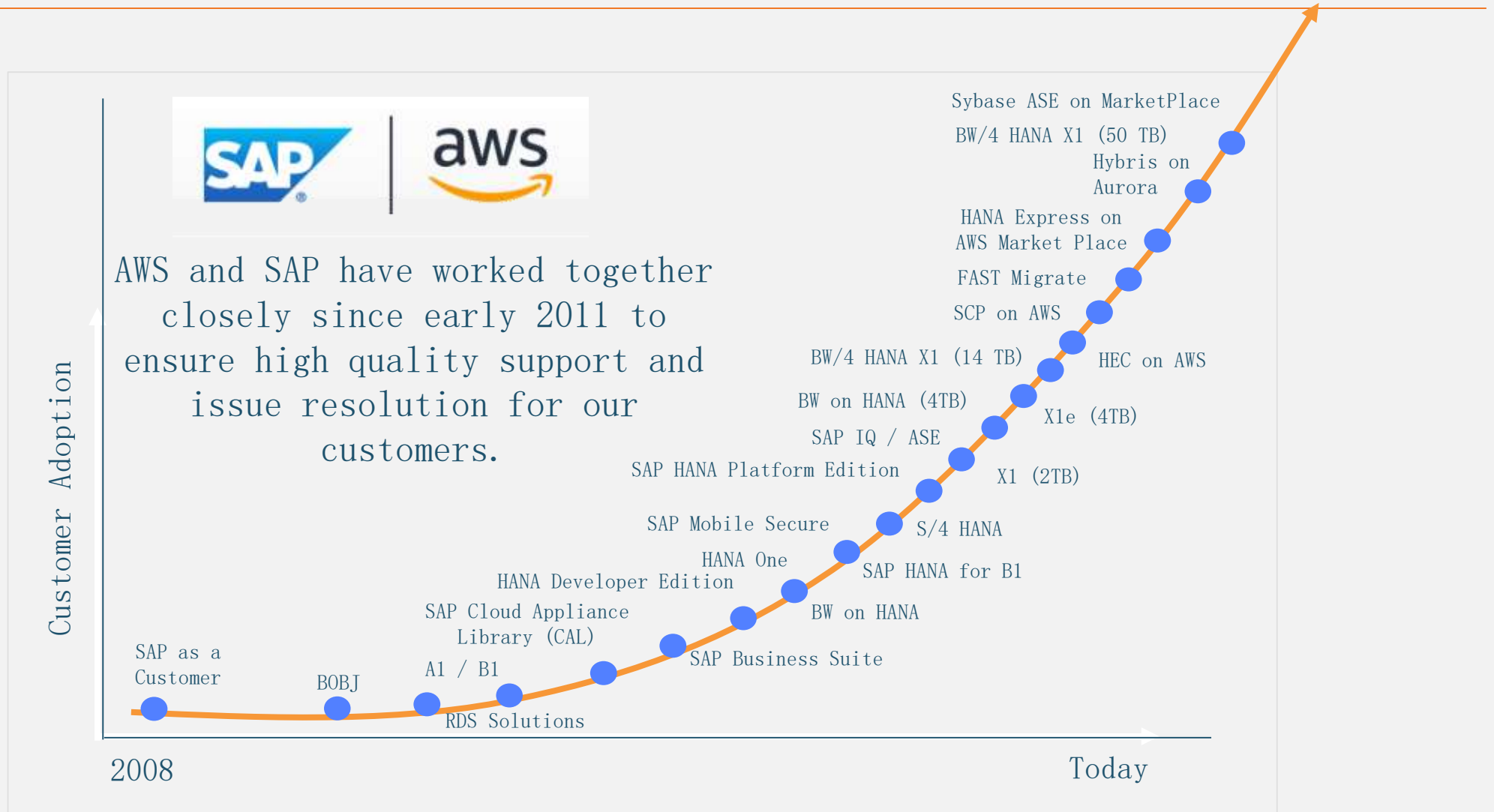
My AMIs (0)		SUSE Linux Enterprise Server 15 (HVM), SSD Volume Type - ami-0f36135299a4a74d4	Select
AWS Marketplace (1)	SUSE Linux	SUSE Linux Enterprise Server 15 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.	64-bit (x86)
Community AMIs (80)		Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	
		SUSE Linux Enterprise Server 12 SP3 (HVM), SSD Volume Type - ami-0c85065910d84c419	Select
	SUSE Linux	SUSE Linux Enterprise Server 12 SP3 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.	64-bit (x86)
		Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	

① 西云数据简介

② AWS简介

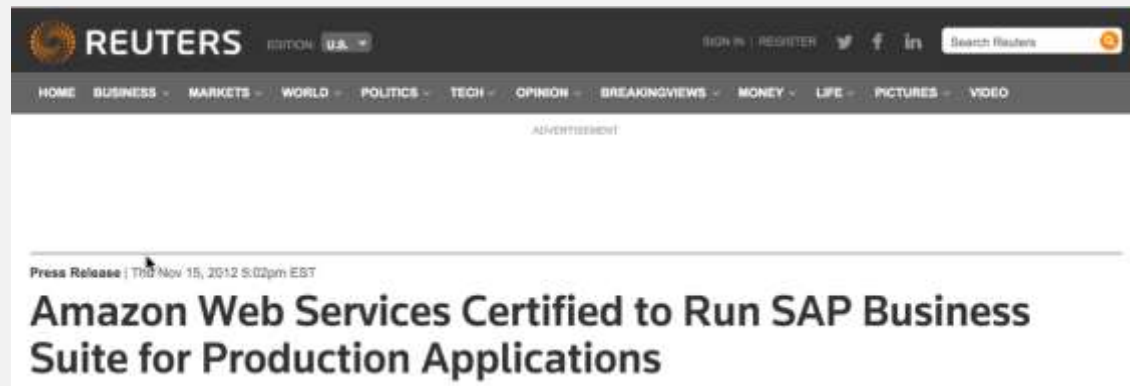
③ SAP on AWS

SAP和AWS



SAP已经认证可以运行在AWS的解决方案

- SAP Business Suite
- TREX
- CRM, PLM, SCM, SRM
- NetWeaver 7.x ABAP/Java(*)
- BW, Portal, PI, etc..
- SAP Business Objects BI Solution
- SAP Rapid Deployment Solutions
- SAP Business All in One (A1)
- SAP Business One (B1) / B1 on HANA
- SAP BYOL HANA on AWS, HANA One
- SAP S/4 HANA
- SAP Afaria
- SAP Hybris
- SAP BW/4 HANA



SAP Business Suite Now Certified for Production Deployment on the AWS Cloud



Posted On: Nov 21, 2012

AWS is pleased to announce that SAP Business Suite is now certified to run on the AWS cloud platform for production deployments. Enterprises running SAP Business Suite can now leverage the on-demand, pay as you go AWS platform to support thousands of concurrent users in production without making costly capital expenditures for their underlying infrastructure. SAP solutions now certified for production use on AWS include SAP Business Suite, SAP Hana One, SAP Business All-in-One solutions, SAP Rapid Deployment solutions, SAP Afaria and SAP Business Objects business intelligence (BI) solutions. For more information on deploying SAP solutions on AWS and the cost savings that can be achieved, technical guides, customer success stories, and AWS partner-built test drives, visit <http://aws.amazon.com/sap>.

※最新资讯请参考SAP Notes 1656099确认

SAP 认证的可用于 SAP 应用的机型

General Purpose

Name	vCPU	Memory (GiB)	Network (Gbps)	Storage (Mbps)	SAPS
m5.24xlarge	96	384	25	14,000	135,230
m5.12xlarge	48	192	10	7,000	67,215
m5.4xlarge	16	64	High	3,500	22,538
m5.2xlarge	8	32	High	Up to 3,500	11,269
m5.xlarge	4	16	High	Up to 3,500	5,634
m5.large	2	8	High	Up to 3,500	2,817

Compute Optimized

Name	vCPU	Memory (GiB)	Network (Gbps)	Storage (Mbps)	SAPS
c5.18xlarge	72	144	25	14,000	95,400
c5.9xlarge	36	72	10	7,000	47,700
c5.4xlarge	16	32	Up to 10	3,500	21,200
c5.2xlarge	8	16	Up to 10	Up to 3,500	10,600
c5.xlarge	4	8	Up to 10	Up to 3,500	5,300

Check SAP Note 1656099 for more information

Memory optimized

Name	vCPU	Memory (GiB)	Network (Gbps)	Storage (Mbps)	SAPS
x1e.32xlarge	128	3,904	25	14,000	131,500
x1.32xlarge	128	1,952	25	14,000	131,500
x1.16xlarge	64	976	10	7,000	65,750
r5.metal (coming soon)	96	768	25	14,000	142,000
r5.24xlarge	96	768	25	14,000	135,230
r5.12xlarge	48	384	10	7,000	67,615
r5.4xlarge	16	128	Up to 10	3,500	22,538
r5.2xlarge	8	64	Up to 10	3,500	11,269
r5.xlarge	4	32	Up to 10	3,500	5,535
r5.large	2	16	Up to 10	3,500	2,817

High Memory

Name	Logical Processors	Memory (TiB)	Network (Gbps)	Storage (Mbps)	SAPS
u-6tb1.metal	448	6,144	25	14,000	480,600
u-9tb1.metal	448	9,216	25	14,000	480,600
u-12tb1.metal	448	12,288	25	14,000	480,600

SAP 认证的可以运行 SAP HANA 的机型

SAP官方认证AWS EC2机型列表

Vendor	Instance	RAM	Clustering	Scenarios /	
Amazon Web Services	c3.8xlarge	60 GB		SLES* 11 SP4, SAP Business One	✓
Amazon Web Services	cr1.8xlarge	244 GB		OLAP/OLTP	✓
Amazon Web Services	m4.10xlarge	160 GB		SAP Business One, SLES* 11 SP4	✓
Amazon Web Services	m4.16xlarge	256 GB		SAP Business One, SLES* 11 SP4	✓
Amazon Web Services	r3.8xlarge	244 GB	Yes	OLAP/OLTP	✓
Amazon Web Services	r3.8xlarge	244 GB		SLES* 11 SP4, SAP Business One	✓
Amazon Web Services	r4.16xlarge	488 GB		RHEL* 7.5 for SAP Solutions, RHEL*	✓
Amazon Web Services	r4.8xlarge	244 GB		SLES* 12 SP1, RHEL* 7.5 for SAP	✓
Amazon Web Services	r5.24xlarge	768 GB		OLAP/OLTP, RHEL* 7.4 for SAP	✓
Amazon Web Services	u-12h1.metal	12 TB		SLES* 12 SP3, RHEL* 7.5 for SAP	✓
Amazon Web Services	u-6tb1.metal	6 TB		SLES* 12 SP3, RHEL* 7.5 for SAP	✓
Amazon Web Services	u-9tb1.metal	9 TB		OLTP, RHEL* 7.4 for SAP Solutions	✓
Amazon Web Services	x1.16xlarge	976 GB		SLES* 11 SP4, SAP Business One	✓
Amazon Web Services	x1.16xlarge	976 GB	Yes	SLES* 12 SP1, RHEL* 7.5 for SAP	✓
Amazon Web Services	x1.32xlarge	1952 GB	Yes	SLES* 12 SP1, RHEL* 7.4 for SAP	✓
Amazon Web Services	x1e.32xlarge	up to 4 TB		RHEL* 7.5 for SAP Solutions, RHEL*	✓

<https://www.sap.com/dmc/exp/2014-09-02-hana-hardware/enEN/iaas.html>

AWS官方网址站支持SAP HANA机型列表

SAP HANA Server only
1 Amazon EC2 instance for the SAP HANA DB platform
Example scenarios: Native HANA Applications | Data marts

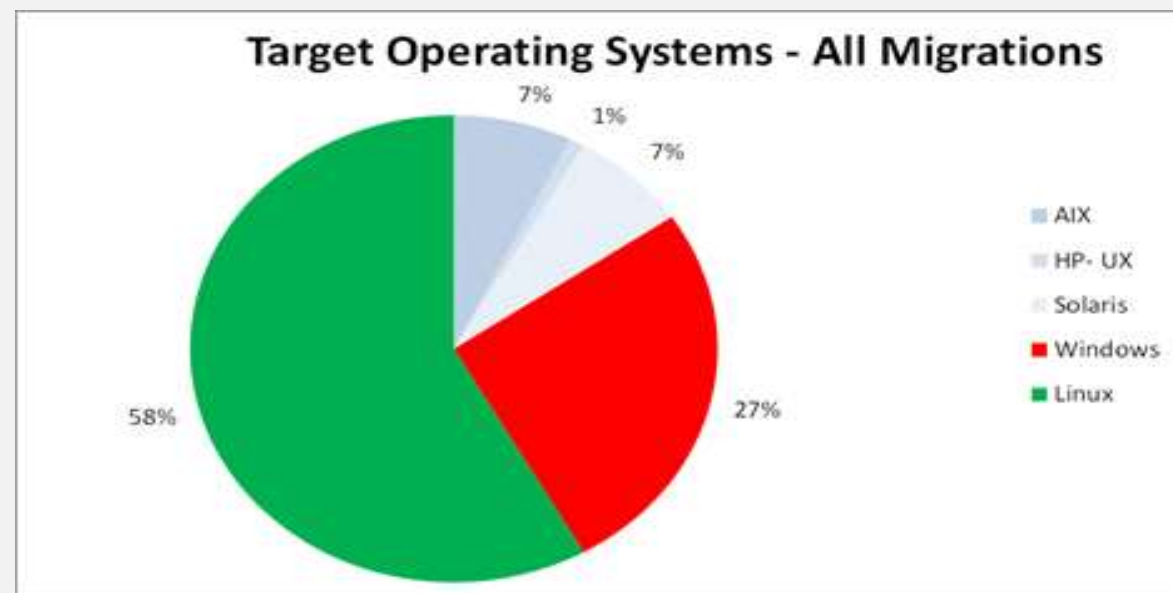
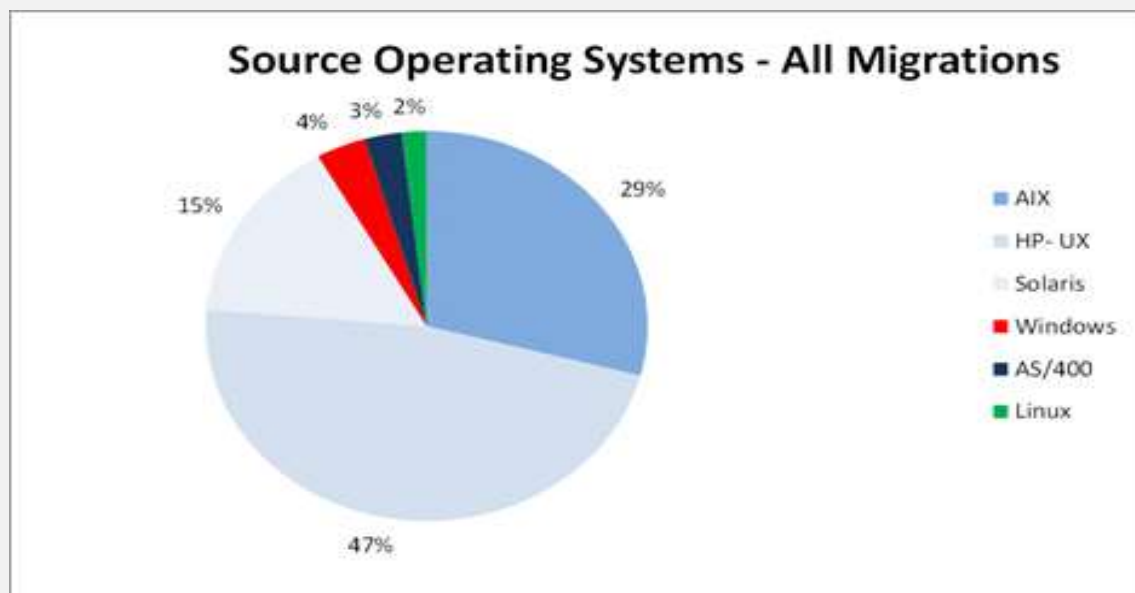
EC2 Instance Type	vCPU	Memory (GiB)	Supported for production**	Monthly cost***
r4.2xlarge	8	61	No	See estimate
x1e.2xlarge	4	122	No	See estimate
r4.xlarge	16	122	No	See estimate
x1e.2xlarge	8	244	No	See estimate
r5.xlarge	32	244	Yes	See estimate
r4.8xlarge	32	244	Yes	See estimate
x1e.4xlarge	16	488	No	See estimate
r4.16xlarge	64	488	Yes	See estimate
x1.16xlarge	64	976	Yes	See estimate
x1.32xlarge	128	1,952	Yes	See estimate
x1e.32xlarge	128	3,904	Yes	See estimate
u-6tb1.metal	488*	6,144	Yes	See pricing
u-9tb1.metal	488*	9,216	Yes	See pricing
u-12tb1.metal	488*	12,288	Yes	See pricing

<https://amazonaws-china.com/sap/solutions/saphana/>

AWS 支持完整的OLAP+OLTP平台
60GB -> 12TB Instance

SAP在SUSE的部署

- 大部分的SAP应用从Unix迁移到Linux (> 58%)
- 部署在Linux上的SAP应用大多选择SUSE (>75%)



Source: The Trend from UNIX to Linux in SAP Data-Centers, RealTech Consulting, Oct 2014

在AWS Console中选择SLES for SAP Applications



aws Ningxia Region | Beijing Region
Operated by NWCD | Operated by Sinnet

Services

1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

Architecture

- 32-bit (x86)
- 64-bit (x86)

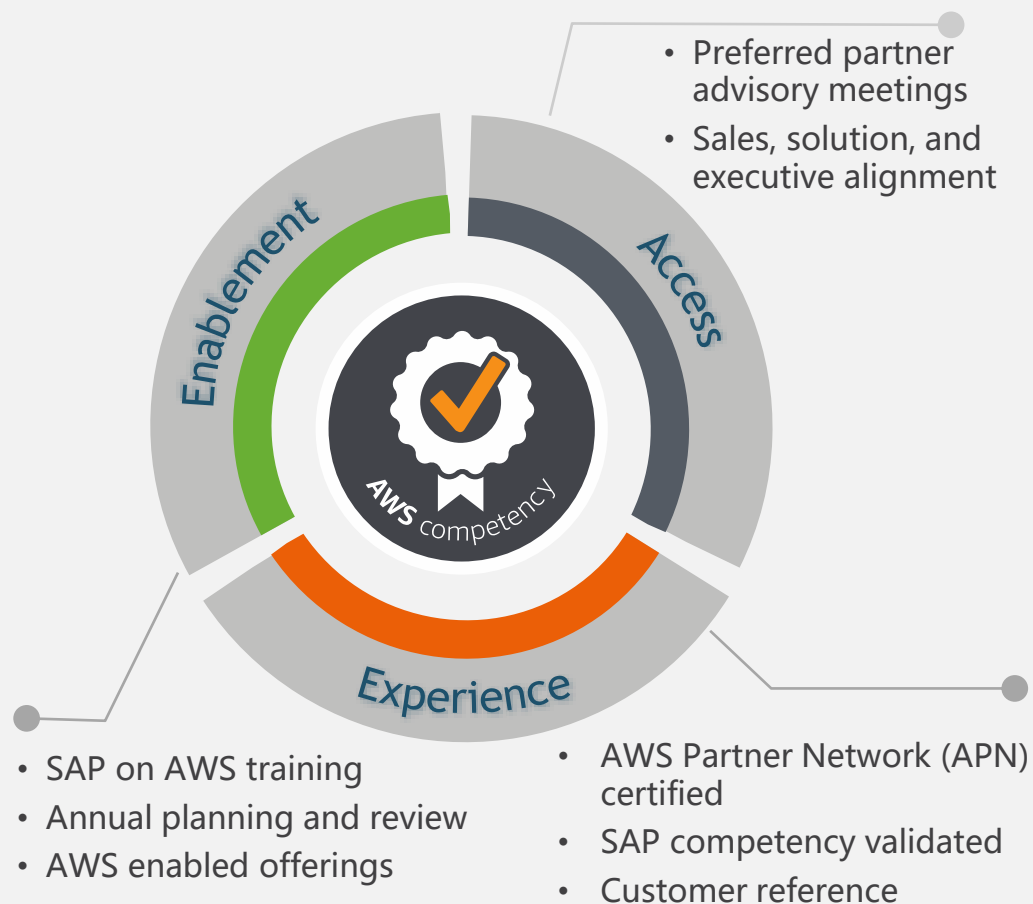
Root device type

- EBS
- Instance store

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

	suse-sles-12-sp1-sapcal-v20180816-hvm-ssd-x86_64 - ami-09db27a7c5e495e68	Select
	SUSE Linux Enterprise Server 12 Service Pack 1 for SAP CAL (HVM, 64-bit, SSD Backed)	64-bit (x86)
	Root device type: ebs Virtualization type: hvm ENA Enabled: No	
	suse-sles-sap-15-byos-v20190314-hvm-ssd-x86_64 - ami-0a54ec4d237175370	Select
	SUSE Linux Enterprise Server 15 for SAP Applications for BYOS (HVM, 64-bit, SSD-Backed)	64-bit (x86)
	Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	
	suse-sles-sap-12-sp3-byos-v20180814-hvm-ssd-x86_64 - ami-0a56096a0f843f3fb	Select
	SUSE Linux Enterprise Server for SAP Applications for BYOS (HVM, 64-bit, SSD-Backed)	

SAP合作伙伴生态



GSI's (12)	
SI's (36)	
MSP (25)	
Tech (8)	

SAP on AWS 高可用性案例

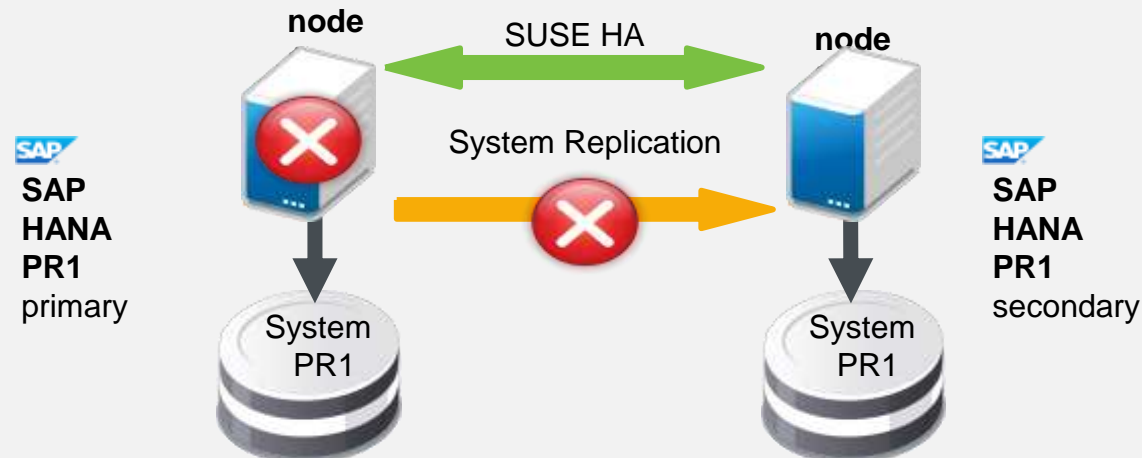
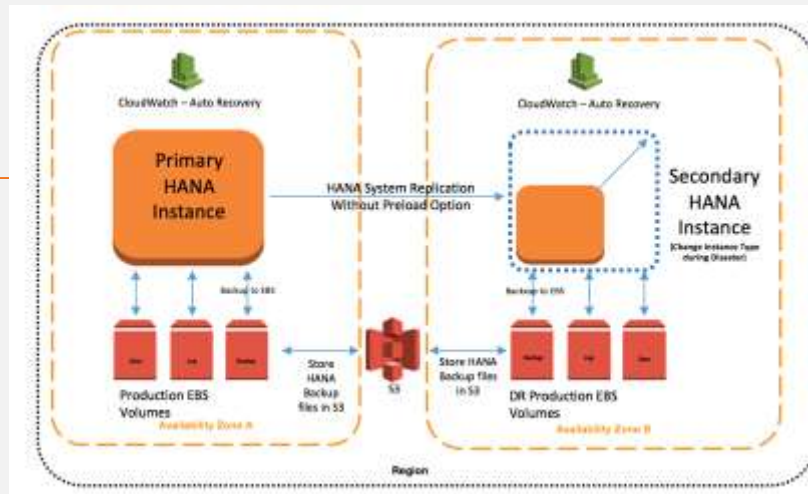
国内某大型物流装备和能源装备供应商

挑战

SAP ERP系统是公司核心业务系统，维持业务的连续性对系统可用性的要求随着业务量增加而不断提高。在将ERP迁移到AWS云端后，寻找在AWS环境下适合部署SAP高可用架构成了迫切需要解决的难题。

方案

在经过慎重的选型，方案既要满足能够支撑SAP HANA环境下的高可用架构，又要能够基于AWS云来设计，达到三者完美融合。既满足架构伸缩灵活、采用先进的技术，又要兼顾安全性和稳定性等要求，最终选择将SUSE HAE作为SAP ERP on AWS，该项目也是国内为数不多的采用SAP HANA + SUSE HAE + AWS的典型范例，很好的支撑了企业的数字化转型。





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知识分享

案例研究

社区互动



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