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主办单位: 🏠 REMARKE COLOR STATE STATE

大会时间: 2019年4月12日-13日

大会地址:深圳市南山区圣淘沙大酒店(翡翠店)

Rock of Operations "摇滚运维"

Cloud Management is the Future 未来-云计算管理

Steve Mushero —云敞科技全球CTO

Clouds are Coming 云,已来

- Everywhere 无处不在
- Public 公有云
- Private 私有云
- Hybrids 混合云



Flexible & Powerful 灵活并强大

- Many Clouds 各种各样的云
- More & More Features 越来越多的功能
- More & More Complex 越来越复杂
- Business Moving Faster 业务发展迅速
- New Tech 新技术
 - Containers 容器
 - Serverless 微服务



Hard to Manage 难以管理

- Many Features 功能太多
- Many Ops Needs 运维诉求越发增加
- Many Tools 工具繁琐
- Many Clouds 太多的云



So Many Tools - Drowning in them 被工具淹灭

- Average 25 Ops Tools 管理系统,平均25套运维工具
- Many Monitoring 太多的监控
- Logs, CMDB, Security, etc.日志, CMDB, 安全等等
- Cost, Rules, Configs 成本,策略,配置
- Automation, DevOps 自动化
- Containers & More 容器以及更多



Need Unified Cloud Management Platform需要统一的云计算管理平台

- Unified System 统一的系统
- One Platform For All 一个平台集成所有工具
- Every Feature You Need 包含所需要的各种功能
- Every Level of Ops 涵盖运维的每个层级
- Multi-Cloud 多云管理
- Hybrid Clouds 混合云管理
- Physical IDC & Servers 物理机房和服务器的管理



目录

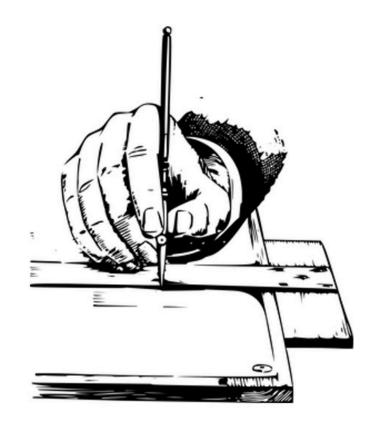
- 1 Design & Build 设计和搭建
- **2** Monitor & Logs 监控和日志
- **3** Governance 合规治理
- 4 Billing 成本管控

目录

- **1** Design & Build 设计和搭建
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Designing Clouds 云系统的设计

- Many Ways 方法众多
 - Infrastructure-as-Code 直接代码部署
 - Visual 视图化操作
- Service Catalogs 服务目录
- Reverse Engineering 反向工程
- Multi-Cloud is Hard 多云有难度



Designing Clouds - As Code 直接代码部署

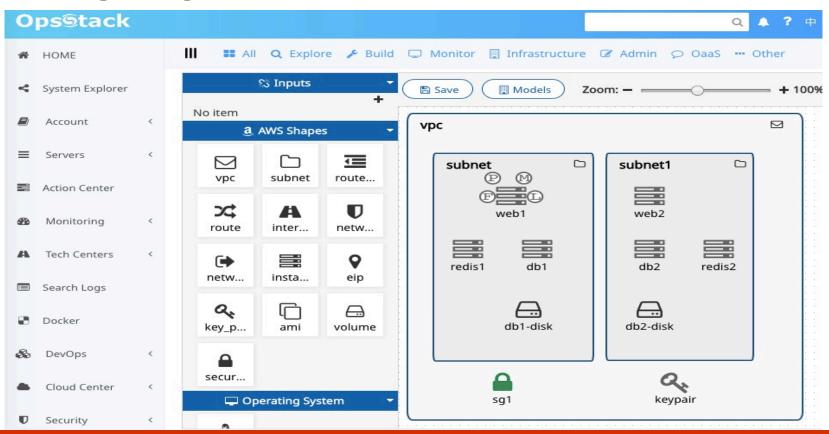
- Terraform / CloudFormation
- In Version Control 版本控制
- Part of CI/CD Flow 隶属持续集成/部署流程
- Not Perfect 并不完美
 - Complex Systems 系统复杂
 - Diverse Systems 系统多样

Designing Clouds - Visual 视图化操作

- Easy to Use 容易操作
- Easy to See Architecture 方便架构
- Troubleshooting Help 便于排障



Designing Clouds – Visual 视图化操作



Designing Clouds - Service Catalogs 服务目录

- Pre-Approved Modules 预先审核的模块
- Pre-Approved Services 预先审核的服务
- Faster to Build & Deploy 快速搭建和部署

Designing Clouds - Reverse Engineering反向工程

- For Existing Systems 适用现有系统
- Import Existing Architecture 导入现有架构
- Allow Changes & Updates 允许改变和更新
- Really Hard to Do 做好太难了!

Building Clouds 云系统的搭建

- Deploy the Design 导入设计
- Via CloudFormation or Terraform



Cloud CMDB

- Every Net, VM, Service 每个网络,虚机,服务
- Every Relationship 每个关联
- Auto-Discovered 自动发现
- OS Details 操作系统细节
- VM Service Deep Configs 虚机服务的深度配置文件
- Cloud Service Deep Configs 云服务的深度配置文件

Cloud CMDB

DASHBOARD SUMMARY PC	DLICIES RESOURCES					
All Cloud Accounts	All Regions	▼ EC21	Instance v	SEARCH		
Resource	Resource Type	Compliance	Config(Latest)	Config(History)		
-005de1b9067df8af4	EC2 Instance	Non-Compliant	2019-03-19 03:12:22 Created	View		
i-053d668f4d0ece15c	EC2 Instance	Non-Compliant	2019-03-28 09:12:19 Created	View		
srv-nc-demo-opsstack-app1	EC2 Instance	Compliant	2019-03-07 15:12:21 Created	View		
srv-nc-demo-opsstack-app2	EC2 Instance	Compliant	2019-03-07 15:12:22 Created	View		
srv-nc-demo-opsstack-db1	EC2 Instance	Non-Compliant	2019-03-18 21:12:19 Created	View		
srv-nc-demo-opsstack-db2	EC2 Instance	Compliant	2019-03-29 03:12:20 Created	View		
srv-nc-demo-opsstack-nat1	EC2 Instance	Non-Compliant	2019-03-07 15:12:21 Created	View		
srv-nc-demo-opsstack-oracle1	EC2 Instance	Non-Compliant	2019-03-08 02:12:19 Created	View		

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Monitoring Clouds 云监控

- Many Levels 许多层级
- CloudWatch
- OS Linux/Windows
- VM Services MySQL, Nginx
- Cloud Services RDS, ELK
- Containers 容器
- Serverless Lambda 无服务器服务



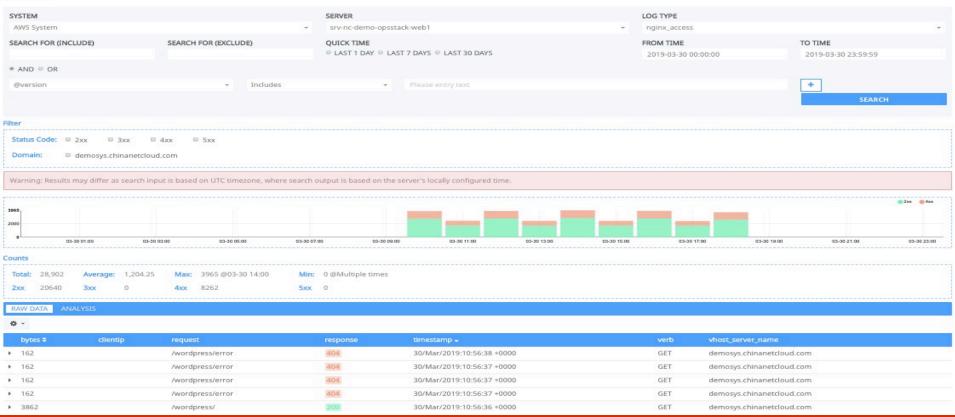
Cloud Logging 云日志

- Audit CloudTrail 审计
- Services ELB, RDS -> S3 云服务
- Serverless -> Cloud Watch 无服务器服务
- OS Logs Cron, Auth, Kernel 系统日志
- VM Service Logs Nginx, etc.虚机服务日志
- Container 容器



Cloud Logging 云日志

LOGGING



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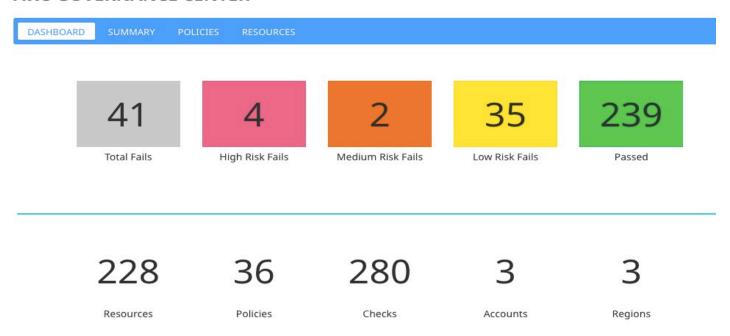
Cloud Governance - Control the Cloud 合规治理-管控云

- Guardrails 护栏
- Best Practice Policies 最佳实践策略
- Auto & Manual Healing 自动和手动修复
- Customizable 客制化



Cloud Governance - Control the Cloud 合规治理-管控云

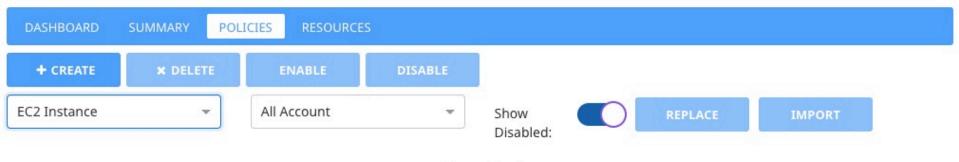
AWS GOVERNANCE CENTER



Cloud Governance 云计算合规治理

- Data from AWS Config or APIs 数据来源
- Uses Policy Engine 利用策略引擎
- Version Control Everything 可视化控制面板
- History of Everything 记录所有历史操作

Cloud Governance 云计算合规治理



0 items selected

-	Policy	Severity	Scope	Resource Type	Where	Tag	Status	Edit	Global
0	AWS EC2 Instance KeyName	Low	Account	EC2 Instance	All		Disabled	•	•
	EC2 Tenancy Dedicated is False	High	Account	EC2 Instance	All		Enabled	•	•
0	EC2 Volume "Delete on Termination" is Disabled	Low	Account	EC2 Instance	All		Enabled	•	•
0	EC2 instance state is ()	Low	Account	EC2 Instance	All		Enabled	A	•

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Cloud Billing - Control the Cost 成本管控

- Analyze Your Bill 分析账单
- By Region, Service, System 按区域,服务,系统区分
- Across Accounts & Environments 跨账户和环境
- Budgets & Projections 预算控制
- Visualizations 可视化

Cloud Billing - Control the Cost 成本管控

AWS BILLING



Summary 总结

- Clouds are the Future 云计算是未来
- More Features Coming 更多功能会出现
- More Requirements Coming 伴随更多要求出现
- Too Many Tools 运维工具纷繁复杂
- Unified Platforms are the Future 统一的运维平台是未来
- Single-Pane-of-Glass is the Future 单一的运维平台是未来

See all this in our booth 更多内容, 欢迎莅临我们的展位

#419

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Thanks

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