



Portal Gerenciamento de Resiliência

Banco do Brasil – Licitação Multi-Cloud 2020

Agya Corporation
Dezembro 2020



Geminare is a Key Market Innovator

“Highlighting Geminare’s vast experience and deep market understanding, the Resiliency Management Platform (RMP) easily represents the industry's most innovative, multi-tiered platform designed specifically to address the complexities identified by Service Providers when delivering and supporting DRaaS solutions”

Resiliency Management Platform

Geminare response for:

**Banco do Brazil RFP Response for ITRO
Dezembro 2020**



“Geminare is Changing the Economics of BC/DR”



“promoting measurable business benefits in Cloud computing”



“cost-effective, technologically impressive”



“T1R expects more hosting companies and telcos to incorporate”



“well positioned to dominate the Recovery as a Service market”





Geminare Ejemplos de Clientes



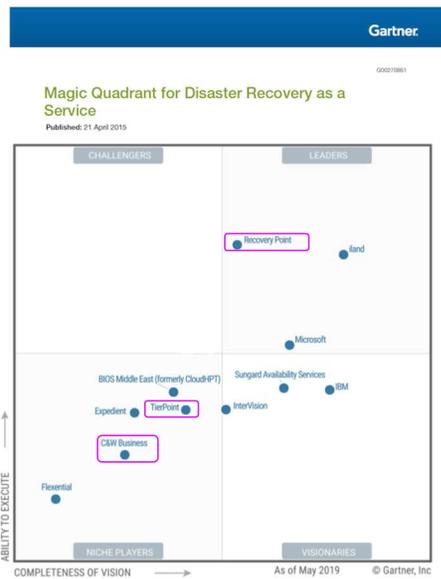
 <p>CABLE & WIRELESS offers Disaster Recovery as a Service (DRaaS) services to over 20 countries in Latin America leveraging Geminare's DRaaS portfolio.</p>	 <p>NTT COMMUNICATIONS extends worldwide Cloud infrastructure services by utilizing the RMP.</p>	<p>RECOVERYPOINT</p> <p><i>RECOVERYPOINT</i> positions itself as an industry leader by leveraging the Geminare RMP to deliver hybrid resiliency.</p>	<p>Including Magic Quadrant Leaders</p>
<p>Including Market Dominating Providers</p>	 <p>IRON MOUNTAIN surpasses competition in the offsite recovery space with the introduction of integrated <i>Escrow for AWS</i>, Powered by the RMP.</p>	 <p>FRONTIER COMMUNICATIONS launches a new Cloud Business Unit based on Resiliency Solutions from the RMP.</p>	 <p>LIBERTY GLOBAL expands its Latin American presence in the Disaster Recovery as a Service (DRaaS) market with Geminare's DRaaS portfolio.</p>
 <p>Sirius Computer Solutions expands its Data Analytics offerings through advanced Machine Learning and the Geminare RMP.</p>	 <p>CENTURYLINK fortifies its Cloud-based services portfolio and extends its market reach with the launch of <i>Real-Time Application Recovery (RTAR)</i>.</p>	 <p>TIERPOINT delivers national footprint of leading-edge <i>Hybrid DRaaS</i> solutions.</p>	<p>Including Niche Solution Providers</p>



Referências de Mercado – Solução de Resiliência



Gartner



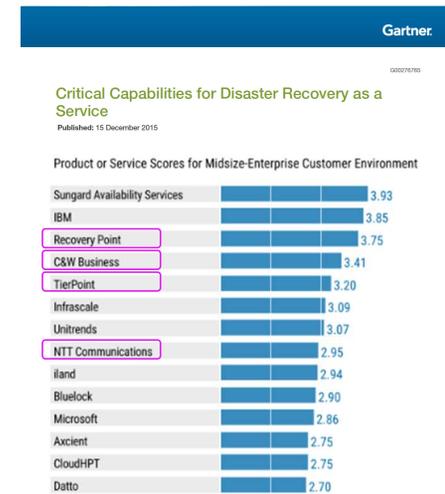
Multiple Geminare Partners represented including Recovery Point, a **LEADER** in *Gartner DRaaS Magic Quadrant Report 2019*

Gartner



Geminare Partner Recovery Point rated **HIGHEST** for Product or Service in *Gartner Critical Capabilities Assessment 2019*

Gartner



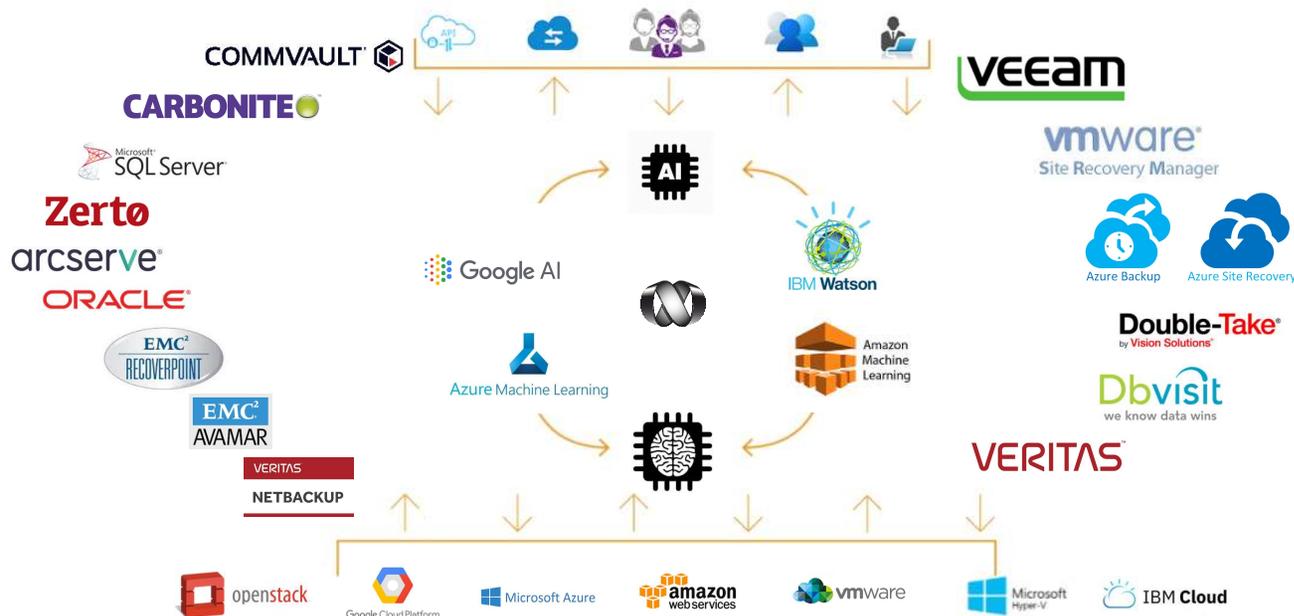
MULTIPLE Geminare Partners represented in *Gartner Critical Capabilities Assessment 2019*



Orquestração e Automação de Resiliência de TI através da Plataforma de Gerenciamento de Resiliência



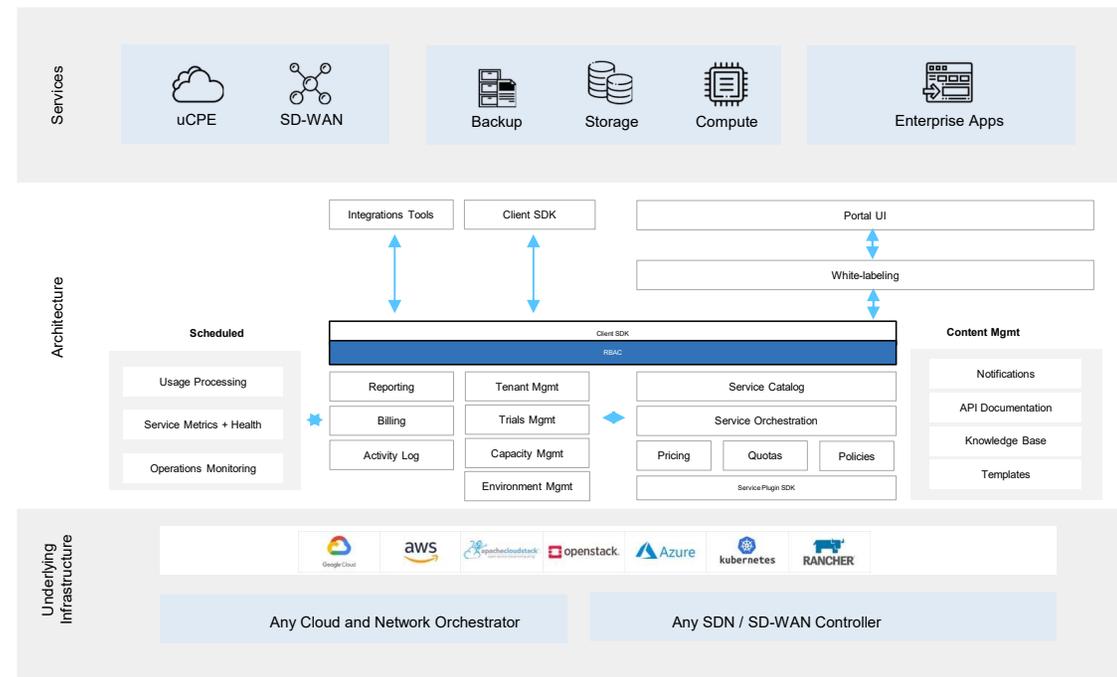
- Suporte robusto para virtualmente todas as tecnologias existentes e futuras de DR, BC e DRaaS permite que os clientes mudem tão rapidamente quanto se sentem confortáveis para um ambiente Híbrido ou totalmente em nuvem, enquanto mantêm o gerenciamento completo e uma visão significativa dos feeds de dados de todas as tecnologias implantadas.



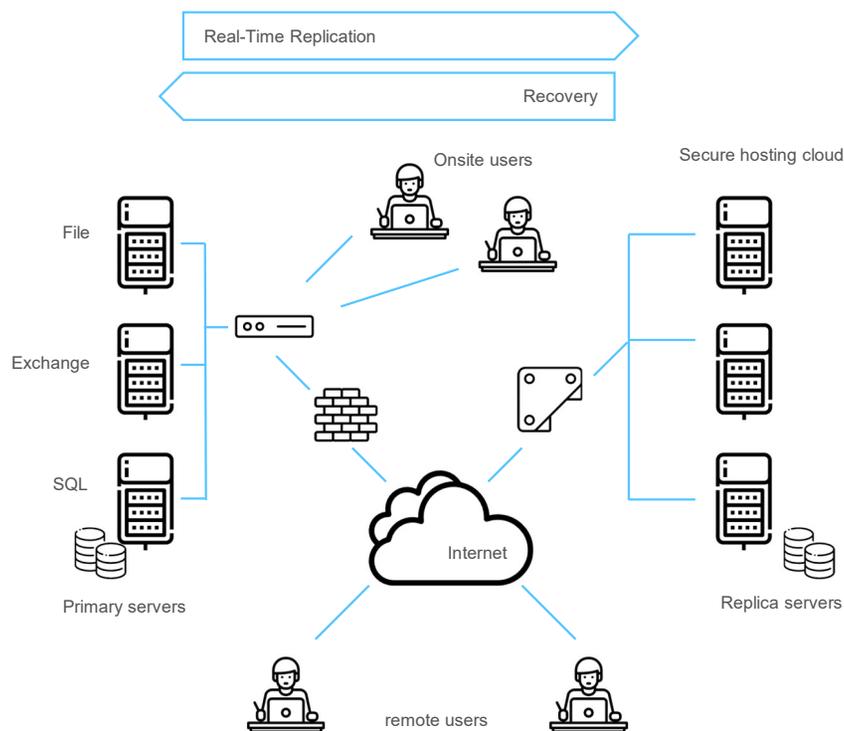
SOLUÇÃO ORQUESTRAÇÃO DE HYBRID / EDGE / MULTI-CLOUD



- Identity Management (integrado com O365, Google Apps, OKTA ou OpenID)
- Portal Master integra aplicações internas e SaaS em single sign on
- Orquestração Multi-Cloud permite portal único para gerenciamento de nuvens publicas, privadas, hibridas ou “edge”
- Orquestração de recursos nativos de cloud como Kubernetes Google GKE, Azure AKS e Amazon EKS
- Permite administração multi-nível de revendedores, sub-organizações, etc.
- Mede consumo e permite “charge back” interno



ORQUESTRAÇÃO DE RESILIÊNCIA DE TECNOLOGIA DA INFORMAÇÃO



- Muito além de ativação de ambiente de recuperação de desastre.
- Permite orquestração de processos de negócios
- Completa visibilidade sobre métricas, compliance, sandbox
- Utiliza investimentos existentes. Solução orquestra aplicações como Veeam, Commvault, e diversas outras
- Automação de workflows
 - Do mais simples ao mais complexo
- Múltiplas Plataformas
 - Físico para virtual
 - Cloud para cloud
 - Qualquer hypervisor



PORQUE ORQUESTRAÇÃO DE RECUPERAÇÃO DE DESASTRES?



- Em geral, empresas tem dificuldades no desenvolvimento de soluções de recuperação de desastre.
- Poucas empresas efetivamente testam seus ambientes de DR e a possibilidade de recuperação. Quando o fazem, os processos são manuais e complicados, tomando vários dias para os processos de cambio para contingência e ainda mais complicado para retorno ao ambiente de produção
- Durante o estresse de uma falha no ambiente de produção, seja por uma infestação de vírus, ataque de ransomware, falha de hardware, falha humana, manutenção, corrupção de software, de dados, de aplicações, enchentes, fogo ou qualquer outro problema, o que menos interessa aos operadores de TI e ter processos complicados de cambio de produção a contingencia.
- A soluções de orquestração de DR da Agya facilitam esse processo
- Muito mais que ativação de servidores virtuais em um ambiente secundário, entregamos aplicações ativadas, com rede reconfigurada e usuários finais com acesso as aplicações como teriam em produção.

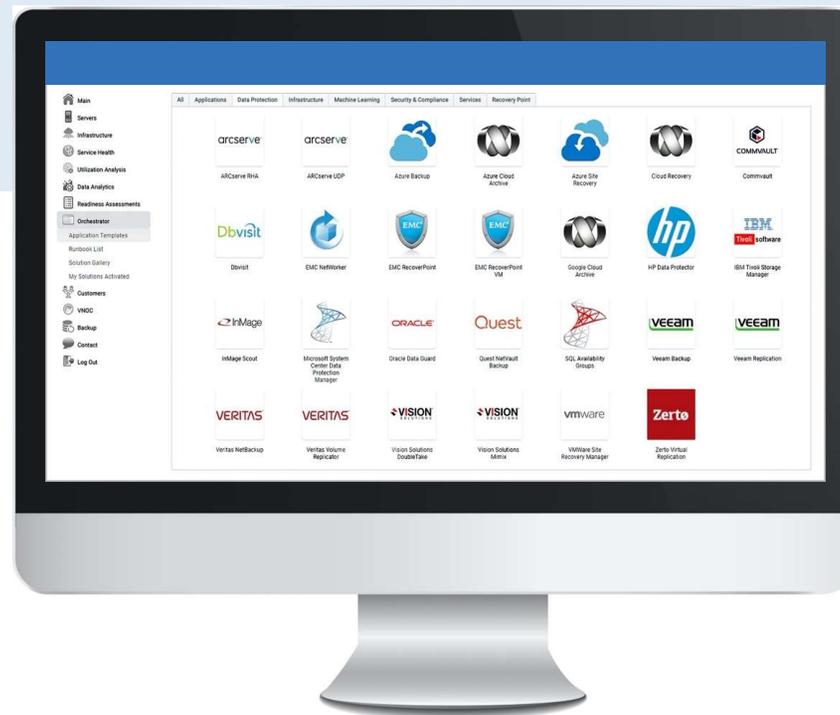


VISIBILIDADE



- **Dashboard com Métricas.** Acesso a interface para medição de performance e SLAs de todas as aplicações e sistemas
- **Relatórios do status de recuperação de aplicações.** Melhor visibilidade de grupos de aplicações até componentes individuais
- **Dashboard de Compliance.** Relatórios em tempo real de servidores e aplicações. Visibilidade da prevenção de perda de dados das aplicações e tempo de recuperação
- **Relatório de status “Pronto p/ Recuperar”.** Mede o status e dependência de aplicações e avisam quando aplicações individuais estão prontas para o cenário de recuperação
- **Sandbox Testing.** Teste os processos em ambientes de Sandbox antes de efetuar em situações reais

APROVEITE INVESTIMENTOS REALIZADOS



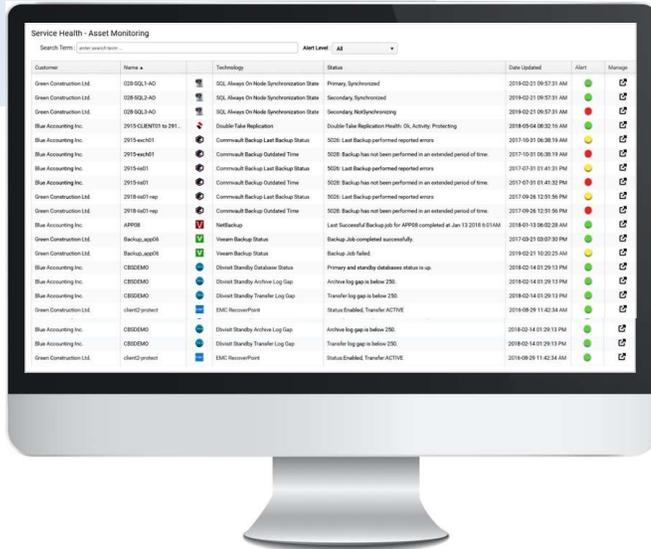
- Se você já investiu em ferramentas de replicação de dados, não tem problema.

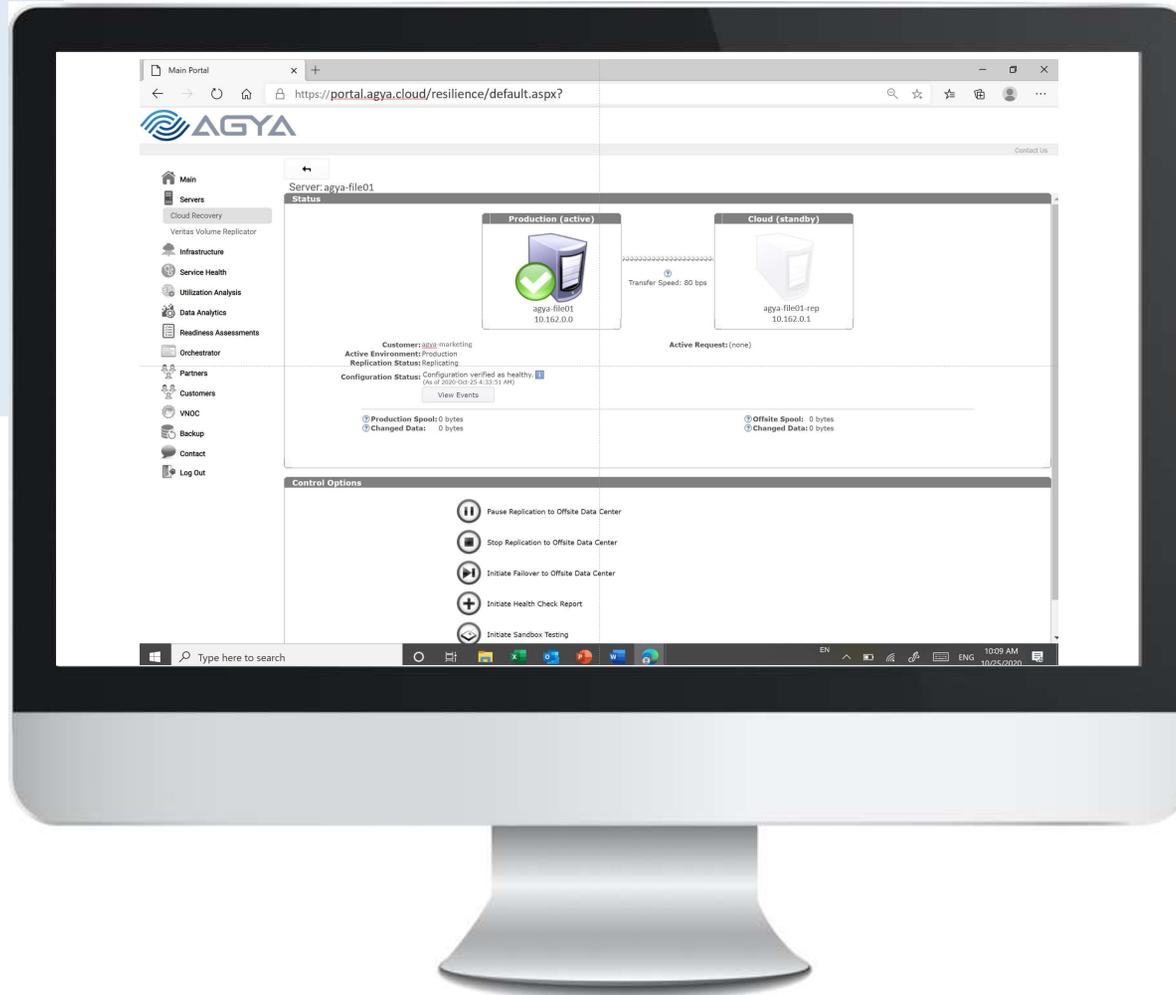
- Nossa solução pode orquestrar diversas plataformas.
- Todas suas necessidades de recuperação de desastres podem ser administradas por uma única solução.



AUTOMAÇÃO DE PROCESSOS

- **Automações Complexas.** Automação de recuperação de ambientes complexos. Servidores físicos, virtuais, cloud. Servidores Windows, Linux, AIX. Virtualizadores Vmware, KVM, Hyper-V, ou outro.
- **Orquestração.** Automação de workflow de recuperação em ambiente implementados em praticamente qualquer tecnologia virtual ou híbrida
- **Recuperação Automatizada Granular.** Recuperação detalhada e granular dos sistemas em falha. Failover por aplicação, grupos de aplicações ou todo o datacenter. Sempre automatizado.
- **Monitore a saúde das soluções em múltiplas plataformas.** Não importa se esteja utilizando SQL Always On, Double Take, Commvault, ou outras, a visibilidade e completa no portal.

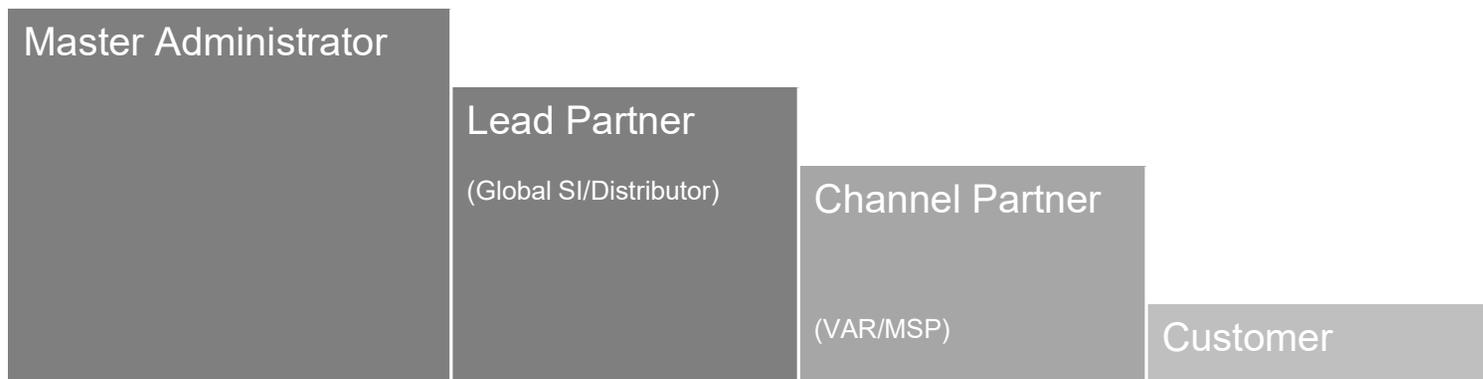






Projetado para dar suporte ao modelo de entrega de soluções híbridas em 5 camadas:

- O RMP foi todo desenvolvido em multi-tenant (diferentes soluções para diferentes operações), que permite que várias soluções sejam aproveitadas em uma base de vários níveis de clientes (diferentes níveis de acesso) com reportes e gerenciados por um provedor de serviços ou grande empresa
- Vários modelos de autenticação, incluindo fontes internas e externas (baseadas no cliente), como LDAP, Active Directory, etc.

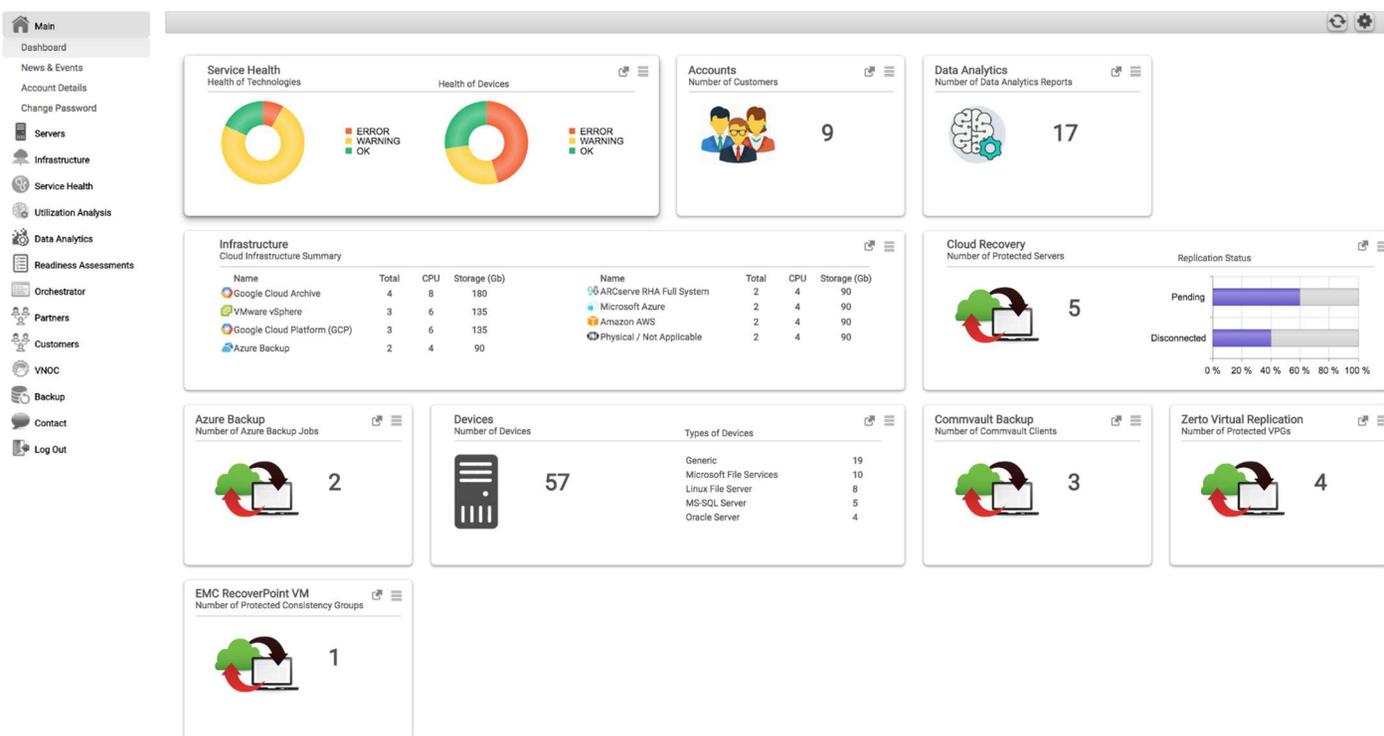




Interface de Alto-Serviço



- A variedade e a profundidade da integração permitem uma interface flexível de auto-atendimento que pode ser utilizada em qualquer tecnologia ou modelo de implantação.





Gerência Máquinas Virtuais em Qualquer Plataforma de Infra-estrutura



- Main
- Servers
- Infrastructure
 - List
 - Map
 - Hypervisor Controller
- Service Health
- Utilization Analysis
- Data Analytics
- Readiness Assessments
- Orchestrator
- Customers
- VNOC
- Backup
- Contact
- Log Out

Device List

Search Term: Infrastructure Type: All

Company Name	Server	Infrastructure Name	Infrastructure Type	Location	Infrastructure
Green Construction Ltd.	guestbook	Amazon us-east-1b	Amazon AWS	Ashburn (United States)	Manage
Green Construction Ltd.	103-core02-rep	Google US	Google Cloud Platform (GCP)		Manage
Green Construction Ltd.	guestbook-dr	Google US	Google Cloud Platform (GCP)	Mountain View (United States)	Manage
Blue Accounting Inc.	file01	vSphere-New	VMware vSphere		Manage
Yellow Manufacturing	031-SQL1-AO	Lab01	Physical / Not Applicable		
Yellow Manufacturing	031-SQL2-AO	Lab01	Physical / Not Applicable		
Yellow Manufacturing	031-SQL3-AO	Lab01	Physical / Not Applicable		
Yellow Manufacturing	031-SQL1-CM	Lab01	Physical / Not Applicable		
Yellow Manufacturing	DC0001	Lab01	Physical / Not Applicable		
Blue Accounting Inc.	031-SQL1-AO	DimensionDataUS1	VMware vSphere		Manage
Blue Accounting Inc.	031-SQL2-AO	DimensionDataUS1	VMware vSphere		Manage
Blue Accounting Inc.					Manage
Blue Accounting Inc.					Manage
Yellow Manufacturing					
Yellow Manufacturing					
Yellow Manufacturing					

Server: guestbook <i-3ed03de8(Guestbook)>

Reboot Start Stop

Status: **RUNNING**

Details

Instance ID	Instance Name	Type	Zone	Public IP	Private IP	Platform	LaunchTime
i-3ed03de8	Guestbook	t2.micro	us-east-1b	54.208.226.189	10.10.2.219		Fri Jan 11 2019

Snapshots

Create New Snapshot Restore Snapshots

Snapshot ID	Volume ID	Name	Size	Status	Description	Progress	Date Created
snap-0a7f69290bfa...	vol-71a6256b	Guestbook-Snapshot-01	8	completed	Guestbook Snapshot - May 25, 2018	100%	05/25/2018
snap-0f50ebfe8120...	vol-71a6256b	Backup	8	completed	Backup-main-system	100%	05/22/2018



Varios Ambientes:

- Permite que clientes e provedores de serviços interajam e controlem VMs armazenadas em praticamente qualquer ambiente, incluindo: **IBM Cloud, AWS, OpenStack, Azure, Google, Physical, VMware, SRM, KVM, CloudStack e muitos outros**

The screenshot shows a web interface for managing infrastructure. At the top, there are tabs for 'Server List', 'Network Data Assessment', 'Infrastructure Configuration', 'Cloud Recovery', and 'Google Cloud Archive'. Below the tabs, there are buttons for '+ Create New Infrastructure' and 'x Delete Selected Infrastructure(s)'. A table lists various infrastructure types with checkboxes and 'Edit' buttons:

Se...	Infrastructure Name	Infrastructure Type	
<input type="checkbox"/>	Amazon US EC2	Amazon AWS	Edit
<input type="checkbox"/>	Azure East	Microsoft Azure	Edit
<input type="checkbox"/>	GCP US	Google Cloud Archive	Edit
<input type="checkbox"/>	Google US	Google Cloud Platform (GCP)	Edit
<input type="checkbox"/>	Los Altos Office	Physical / Not Applicable	Edit
<input type="checkbox"/>	OpenStack East Coast	OpenStack	Edit

Below the table, there is a section for a specific server: 'Server: host-103-LNX009-rep'. It includes buttons for 'Hard Reboot', 'Soft Reboot', 'Start', and 'Stop'. The status is 'RUNNING'. A 'Details' section shows IP Address (162.209.111.250), CPU Information (512MB Standard Instance (Count:1)), Region (IAD), Description (Ubuntu 12.04 LTS (Precise Pangolin) (PVHVM)), and Date Created (Tue Nov 03 2015). A 'Snapshots' section has a table:

Name	Disk	Memory	Status	Progress	Date Created
snapshot-host-103-LNX009-rep-20160117_180023_895	20	512	ACTIVE	100 %	01/17/2016



Google Cloud Platform



openstack



dimension data





Integrações pré-existentes com a maioria das principais ferramentas de “Data Movers”



- O suporte robusto para virtualmente todas as tecnologias existentes e futuras de DR, BC e DRaaS permite que os clientes mudem tão rapidamente quanto se sentem confortáveis para um ambiente Híbrido ou totalmente em nuvem, enquanto mantêm o gerenciamento completo e uma visão significativa dos feeds de dados de todas as tecnologias implantadas.

The image displays two screenshots of the AGYA management console interface. The top screenshot shows the 'Device List' page, which includes a search bar, a 'Server Status' dropdown, and a table of server configurations. The bottom screenshot shows the 'Cloud Archive: Device List' page, which includes a search bar and a table of cloud archive configurations. Both screenshots have blue circles highlighting specific sections of the sidebar menu.

Company Name	Server	Active Environment	Replication Status	Last Request	Next Request	Replication
Green Construction Ltd.	103-APP001 Application Server	Production	Unconfigured	Remove Pending Requests 20/11/2014		Manage
Green Construction Ltd.	103-SQL001 Database	Production	Replicating	Ignore system changes and start Replicating 17/08/2015		Manage
Green Construction Ltd.	Amazon-Web-001 Linux File	Production	Replicating	Initiate Failback to Production 28/03/2017		Manage
Green Construction Ltd.	FILE001-Prod File	Production	Replicating	Start Replicating to Offsite Data Centre 28/12/2016		Manage
Red Consulting GmbH	027-EXCH01 Mail	Production	Replicating	Initiate Failback to Production 10/12/2016		Manage
Red Consulting GmbH	027-ISS001	Production	Disconnected	Start Replicating to Offsite Data Centre		Manage

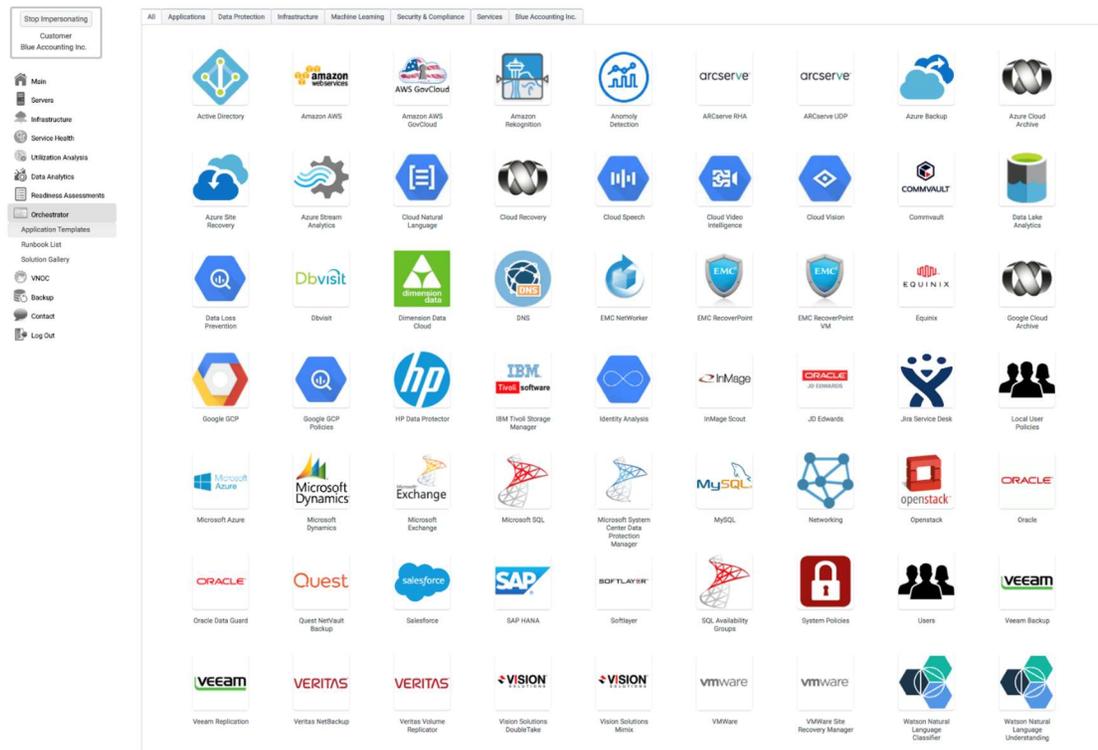
Company Name	Name	Status	Active Progress	Next Run Time	Control Page
Business Inc.	STAGE01 File	IDLE			Manage
Walters Enterprises	linux-01 Linux File	IDLE		Jun 02, 2017 09:30 AM	Manage
Walters Enterprises	linux-02 Linux File	IDLE			Manage
Walters Enterprises	windows-endpoint1 File	IDLE		May 31, 2017 02:30 PM	Manage



Templates de Aplicativos



- Biblioteca de integração existente com os principais aplicativos e tecnologias, como Oracle, SAP e Veritas, permite a comunicação API instantânea.





Reporting e Status da Interface



- Recursos maduros de multi-tenant habilitam coleta de dados em massa, escalonável, análise e relatórios e suporte em praticamente qualquer modelo go-to-market

Service Health - Asset Monitoring

Search Term: Alert Level: All

Customer	Name	Technology	Status	Date Updated	Alert
Blue Accounting Inc.	CBSDEMO	Dbvisit Standby Transfer Log Gap	Transfer log gap is below 250.	2018-02-14 01:29:13 PM	
Blue Accounting Inc.	client2-protect	EMC RecoverPoint	Status:Enabled, Transfer:ACTIVE	2016-08-29 11:42:34 AM	
Blue Accounting Inc.	failover multiple vms	Zerto Virtual Replication	Error: While hypervisor controller successfully connected to Zerto over WCF, it re...	2018-03-02 01:58:30 AM	
Blue Accounting Inc.	Fallover-tst12monkeys...	Zerto Virtual Replication	Error: While hypervisor controller successfully connected to Zerto over WCF, it re...	2018-03-02 01:58:32 AM	
Blue Accounting Inc.	file01	Azure Backup	Backup Job completed successfully.	2017-07-26 01:30:26 PM	
Blue Accounting Inc.	file01	NetBackup	Last attempted Backup job for file01 failed at Jan 12 2018 6:00AM	2018-01-13 06:02:28 AM	
Blue Accounting Inc.	file02	NetBackup	Last Successful Backup job for file02 completed at Jan 12 2018 6:04AM	2018-01-13 06:02:28 AM	
Blue Accounting Inc.	nb8-restore-target	NetBackup	Last attempted Backup job for nb8-restore-target failed at Jan 12 2018 6:00PM	2018-01-13 06:02:28 AM	
Blue Accounting Inc.	Replication_apps	Veeam Replication Status	Replication Job completed successfully.	2017-03-21 03:07:33 PM	
Forsythe Customer A	nbclient	NetBackup	Last Successful Backup job for nbclient completed at Aug 24 2017 8:00PM	2017-08-25 06:01:26 AM	
Green Construction Ltd.	2918-iss01-rep	Commvault Backup Last Backup ...	5026: Last Backup performed reported errors	2017-09-26 12:51:56 PM	
Green Construction Ltd.	2918-iss01-rep	Commvault Backup Outdated TL...	5028: Backup has not been performed in an extended period of time.	2017-09-26 12:51:56 PM	
Green Construction Ltd.	Amazon-Web-001	Cloud Recovery Verify Scenario	1001: Cannot verify configuration due to replication state. Details	2018-03-01 07:14:07 AM	
Green Construction Ltd.	FILE001-Prod	Cloud Recovery Verify Scenario	1001: Cannot verify configuration due to replication state. Details	2018-03-01 07:15:38 AM	
Red Consulting GmbH	027-EXCH01	Cloud Recovery Verify Scenario	1001: Cannot verify configuration due to replication state.	2018-03-01 09:05:31 AM	
Red Consulting GmbH	027-IIS001	Cloud Recovery Verify Scenario	1001: Cannot verify configuration due to replication state.	2018-03-01 09:05:31 AM	
Red Consulting GmbH	027-SQL001	Cloud Recovery Verify Scenario	1001: Cannot verify configuration due to replication state.	2018-03-01 09:05:31 AM	
Yellow Manufacturing	028-FS-FILE01	ARCserve RHA	Scenario is running.	2017-07-21 03:20:05 AM	
Yellow Manufacturing	028-FS-FILE01	ARCserve RHA	Scenario is not running.	2017-09-22 02:18:44 PM	



Monitoração e Alertas



- Monitoração do status de cada componente da solução
- Alertas atualizados com Informação combinada de cada componente habilitado para monitoração

Service Health

Search Term:

Manage	Company	Server	Alert	Infrastructure Name	Infrastructure Type	Last Scan Time
Manage	Patterson Enterprises 2	001-Linux (172.24.0.111)	●			2016-10-11 03:47:09
Manage	Patterson Enterprises 2	001-Linux-Rep (172.24.0.112)	●			2016-10-11 03:47:09
Manage	Patterson Enterprises 2	gembakupqa (40.76.82.93)	●	Azure East	Microsoft Azure	
Manage	Patterson Enterprises 2	Pat Controller (198.107.202.118)	●			2016-10-11 03:47:09
Manage	Patterson Enterprises 2	Terrydemo_SQL (172.24.0.9)	●	Azure East	Microsoft Azure	2016-10-11 03:47:09
Manage	Patterson Enterprises 2	Terrydemo_SQL_REP (172.24.0.10)	●			2016-10-11 03:47:09

Health Check Details: Terrydemo_SQL (172.24.0.9)

Name	Oct 11 3:45PM	Oct 11 3:42PM	Oct 11 3:39PM	Oct 11 3:36PM	Oct 11 3:30PM	Oct 11 3:27PM	Oct 11 3:24PM	Oct 11 3:21PM	Oct 11 3:15PM	Oct 11 3:12PM	0
Host CPU	●	●	●	●	●	●	●	●	●	●	3
Host Memory	●	●	●	●	●	●	●	●	●	●	
Services	●	●	●	●	●	●	●	●	●	●	
Network	●	●	●	●	●	●	●	●	●	●	



Gerenciamento, Monitoramento e Controle Remoto



- Gerenciamento, monitoramento e relatórios remotos em todo o ecossistema
- Centro de Operações de Rede Virtual (VNOC)
- Acesso local e hospedado na nuvem a sistemas em um nível granular

The screenshot displays the AGYA management console interface. On the left, a sidebar lists various systems under 'Computers (7)'. The main area is divided into two panels. The left panel, titled 'Compare Report', shows a comparison between two systems: '103-SQL001-REP' and '103-SQL001'. It includes summary statistics for CPU, memory usage, and OS, along with a 'Scans' section and a 'Details' tab. A line graph titled 'Last 30 Days Average CPU Load' shows the CPU usage for both systems over time. The right panel, titled 'Summary', provides a detailed view of the '103-SQL001' system, including its hardware specifications and a 'Details' tab. The 'Services' sub-tab is active, displaying a table of installed services with columns for Service Name, Description, Status, Startup Type, and Log On As.

Service Name	Description	Status	Startup Type	Log On As	
clr_optimization_v4.0.30319_32	Microsoft .NET Framework NGEN v4.0.30319_X86	Auto	Start	LocalSystem	
clr_optimization_v4.0.30319_64	Microsoft .NET Framework NGEN v4.0.30319_X64	Auto	Start	LocalSystem	
COMSysApp	COM+ System Application	Started	Manual	Stop	LocalSystem
CryptSvc	Cryptographic Services	Started	Auto	Stop	NT Authority\Netwo...
DcomLaunch	DCOM Server Process Launcher	Started	Auto	Stop	LocalSystem
defragsvc	Disk Defragmenter	Manual	Start	LocalSystem	
Dhcp	DHCP Client	Started	Auto	Stop	NT Authority\LocalS...
DiagTrack	Diagnostics Tracking Service	Started	Auto	Stop	LocalSystem
Dnscache	DNS Client	Started	Auto	Stop	NT AUTHORITY\Net...
dot3svc	Wired AutoConfig	Manual	Start	LocalSystem	
				NT	



- Autenticação e execução em várias camadas

Runbook name: DoubleTake Target Reset

Created: May 17, 2017 11:57 AM Updated: May 17, 2017 12:00 PM Status: Idle

Execution mode: Manual Continue on error: false

\$CustomField1: (empty)
\$CustomField2: (empty)
\$CustomField3: (empty)

Step Type	Action	Asset	Conditions
✓ VNOG Request	Stop Service	2918-CLIENT02 Double-Take 2918-CORE01-REP (ST9S-1498-3L4M)	
✓ VNOG Request	Stop Service	2918-CLIENT02 CoreManagementService 2918-CORE01-REP (ST9S-1498-3L4M)	
✓ Execute Command	powershell.exe "Remove-Item 'C:\Program Files\Vision Solutions\Double-Take*' -include connect.sta, PersistencInfo.db"	2918-CLIENT02 (172.22.19.9) Via 2918-CORE01-REP (ST9S-1498-3L4M)	✓ VNOG Request Stop Service 2918-CLIENT02 Double-Take 2918-CORE01-REP (ST9S-1498-3L4M)
✓ Execute Command	powershell.exe "Remove-Item 'C:\Program Files\Vision Solutions\Double-Take\Target*' -recurse -ErrorAction SilentlyContinue"	2918-CLIENT02 (172.22.19.9) Via 2918-CORE01-REP (ST9S-1498-3L4M)	✓ VNOG Request Stop Service 2918-CLIENT02 CoreManagementService 2918-CORE01-REP (ST9S-1498-3L4M)
✓ Execute Command	powershell.exe "Remove-Item 'C:\Program Files\Vision Solutions\Double-Take\Service\Data*' -include job"	2918-CLIENT02 (172.22.19.9) Via 2918-CORE01-REP (ST9S-1498-3L4M)	✓ Execute Command powershell.exe "Remove-Item 'C:\Program Files\Vision Solutions\Double-Take*' -include connect.sta, PersistencInfo.db" 2918-CLIENT02 (172.22.19.9) Via 2918-CORE01-REP (ST9S-1498-3L4M)
✓ Execute Command	powershell.exe "Remove-Item 'HKLM\SOFTWARE\NSI Software\Double-Take\CurrentVersion\Connections*' -recurse Where Object {\$_.Name -match '\d(1,3)\.\d(1,3)}	2918-CLIENT02 (172.22.19.9) Via 2918-CORE01-REP (ST9S-1498-3L4M)	✓ Execute Command powershell.exe "Remove-Item 'C:\Program Files\Vision Solutions\Double-Take\Target*' -recurse -ErrorAction SilentlyContinue" 2918-CLIENT02 (172.22.19.9) Via 2918-CORE01-REP (ST9S-1498-3L4M)

Execution mode: Manual Continue on error: false

Step Type	Action	Asset	Conditions
✓ Execute Command	Set-ADUser \$CustomField1 -PasswordNeverExpires \$false	2918-DC001-REP (172.22.19.4) Via 2918-CORE01-REP (ST9S-1498-3L4M)	
✓ Execute Command	Set-ADAccountPassword \$CustomField1 -reset -newpassword (ConvertTo-SecureString -AsPlainText \$CustomField2 -Force)	2918-DC001-REP (172.22.19.4) Via 2918-CORE01-REP (ST9S-1498-3L4M)	✓ Execute Command Set-ADUser \$CustomField1 -PasswordNeverExpires \$false 2918-DC001-REP (172.22.19.4) Via 2918-CORE01-REP (ST9S-1498-3L4M)
✓ Execute Command	Set-ADUser \$CustomField1 -ChangePasswordAtLogon \$true	2918-DC001-REP (172.22.19.4) Via 2918-CORE01-REP (ST9S-1498-3L4M)	✓ Execute Command Set-ADAccountPassword \$CustomField1 -reset -newpassword (ConvertTo-SecureString -AsPlainText \$CustomField2 -Force) 2918-DC001-REP (172.22.19.4) Via 2918-CORE01-REP (ST9S-1498-3L4M)



Visualização Dinâmica da Execução de Workflows



- RunBooks são usados para gerenciar todas as etapas do processo de resiliência, incluindo recuperação de aplicativos específicos, permitindo visibilidade total da sequência de eventos.
- Usando a ferramenta de visualização, a priorização da sequência de reinicialização pode ser atribuída e verificada.





Controle de Todos os Runbooks com Status ao Vivo



- Visão geral e relatórios de todas as etapas do RunBook.
- Dados RPO e RTO disponíveis para todos os RunBooks.

Runbook List

Search Term:

Execution Mode: Execution Status: Execution Result:

Company	Runbook	Status	Manage
Green Construction Ltd.	Start Maintenance for Amazon-Web-001 Last Updated: Jan 15, 2020 Manual Execution	Status: Idle Last Run: Jan 11, 2016 6:59 PM (UTC-4 hrs)	Manage
Green Construction Ltd.	Multi-layer Application Quiesce and Backup Last Updated: Mar 23, 2020 Manual Execution	Status: Idle Last Run: Jul 31, 2017 1:55 PM (UTC-4 hrs)	Manage
Green Construction Ltd.	Malware Scan Last Updated: Jan 28, 2020 Manual Execution	Status: Idle Last Run: Jan 29, 2020 12:22 AM (UTC-4 hrs)	Manage
Green Construction Ltd.	Turn Off All Amazon DR Last Updated: Jan 15, 2020 Manual Execution	Status: Idle Last Run: Apr 28, 2016 12:03 PM (UTC-4 hrs)	Manage
Green Construction Ltd.	Failover Guestbook App Performs a scan and failover for the Guestbook application Last Updated: Jan 28, 2020 Manual Execution	Status: Idle Last Run: Jan 29, 2020 12:08 PM (UTC-4 hrs)	Manage
Green Construction Ltd.	Snapshot Weekly Last Updated: Jan 15, 2020 Scheduled (Weekly): Jan 19, 2020 3:00 AM (UTC-4 hrs)	Status: Idle Last Run: Mar 22, 2020 2:01 AM (UTC-4 hrs)	Manage
Red Consulting GmbH	New DR Runbook 2019-10-07 16:23:50 Take your video clips and perform visual and text analysis through the best of breed models. Last Updated: Oct 7, 2019 Manual Execution	Status: Idle Last Run:	Manage
Red Consulting GmbH	Video ML Analysis Run multiple ML models to analyze video for object and text sentiment using AWS, Watson, and Google ML engines Last Updated: Jun 30, 2019 Manual Execution	Status: Idle Last Run:	Manage



Integração dos Runbooks Case Study: Oracle on AIX



- Aplicativos complexos como Oracle em plataformas AIX são verificados para garantir que estejam funcionando corretamente.

Data Warehouse App - AIX0064

Step Type	Action	Asset	Conditions
SSH Session Request	Open SSH Session	AIX0064 Via Controller-2012 (3P6V-1978-7N5F)	
SSH Session Request	Execute SSH Session Command 'su - oracle'	AIX0064 Via Controller-2012 (3P6V-1978-7N5F)	SSH Session Request AIX0064 Via Controller-2012 (3P6V-1978-7N5F) Open SSH Session
SSH Session Request	Execute SSH Session Command 'bibiri'	AIX0064 Via Controller-2012 (3P6V-1978-7N5F)	SSH Session Request AIX0064 Via Controller-2012 (3P6V-1978-7N5F) Execute SSH Session Command 'su - oracle'
SSH Session Request	Execute SSH Session Command './startup.sh'	AIX0064 Via Controller-2012 (3P6V-1978-7N5F)	SSH Session Request AIX0064 Via Controller-2012 (3P6V-1978-7N5F) Execute SSH Session Command 'bibiri'
Execute Command	start-sleep -s 470	Controller-2012 (3P6V-1978-7N5F)	SSH Session Request AIX0064 Via Controller-2012 (3P6V-1978-7N5F) Execute SSH Session Command './startup.sh'
SSH Session Request	Close SSH Session	AIX0064 Via Controller-2012 (3P6V-1978-7N5F)	Execute Command start-sleep -s 470 Controller-2012 (3P6V-1978-7N5F)
Execute Command	C:\GemBooks\urlicheck.ps1 http://aix0064.7001/console	Controller-2012 (3P6V-1978-7N5F)	SSH Session Request AIX0064 Via Controller-2012 (3P6V-1978-7N5F) Close SSH Session



Processamento Inteligente de Runbook em Estágios

Case Study: Citrix Services Startup



- A Citrix tem muitos serviços necessários para rodar em vários servidores e o RMP os orquestra todos juntos em um fluxo de trabalho coeso.

Citrix Infrastructure

Control	Details	Steps
Execute Command	Start-Service "Citrix Service Monitor";World Wide Web Publishing Service";Citrix Configuration Replication";Citrix Credential Wallet";Citrix Default Domain Services";Citrix Peer Resolution Service";Citrix Subscriptions Store";Citrix Telemetry Service"	CTXNG-SF2 (9.19.111.4) Via Controller-2012 (3P6V-1978-7N5F)
Execute Command	Start-Service "Citrix AD Identity Service";Citrix Analytics";Citrix App Library";Citrix Broker Service";Citrix Config";Citrix Delegated Administration Service";Citrix Environment Test Service";Citrix High Availability Service";Citrix Host Service";Citrix Machine Creation Service";Citrix Monitor Service";Citrix Orchestration Service";Citrix Remote Broker Provider";Citrix Storefront";Citrix Trust Service"	CTXNG-DLC (9.19.111.5) Via Controller-2012 (3P6V-1978-7N5F)
Execute Command	Start-Service "Citrix AD Identity Service";Citrix Analytics";Citrix App Library";Citrix Broker Service";Citrix Config";Citrix Delegated Administration Service";Citrix Environment Test Service";Citrix High Availability Service";Citrix Host Service";Citrix Machine Creation Service";Citrix Monitor Service";Citrix Orchestration Service";Citrix Remote Broker Provider";Citrix Storefront";Citrix Trust Service"	CTXNG-DLC2 (9.19.111.6) Via Controller-2012 (3P6V-1978-7N5F)
Execute Command	Start-Service "World Wide Web Publishing Service"	CTXNG-Director (9.19.111.8) Via Controller-2012 (3P6V-1978-7N5F)
Execute Command	Start-Service "SQL Server (CTXNGDB)";SQL Server Reporting Services (CTXNGDB)";SQL Server VSS Writer"	CTXNG-SQL (9.19.111.7) Via Controller-2012 (3P6V-1978-7N5F)

Execute Command | Start-Service "SQL Server (MSSQLSERVER)";SQL Server Agent (MSSQLSERVER)";SQL Server Analysis Services (MSSQLSERVER)";SQL Server Reporting Services (MSSQLSERVER)";SQL Server VSS Writer";Citrix Licensing";Citrix Licensing Support Service";Citrix Web Services for Licensing" | CTXDB3 (9.19.111.102) Via Controller-2012 (3P6V-1978-7N5F)

Execute Command | Start-Service "SQL Server (MSSQLSERVER)";SQL Server Agent (MSSQLSERVER)";SQL Server Analysis Services (MSSQLSERVER)";SQL Server Reporting Services (MSSQLSERVER)";SQL Server VSS Writer";Citrix Licensing";Citrix Licensing Support Service";Citrix Web Services for Licensing" | CTXDB3 (9.19.111.102) Via Controller-2012 (3P6V-1978-7N5F)



Execução Cross-Platform Case Study: *At Your Service*

- A validação em nível de aplicativo vai além de apenas garantir que uma VM está online. Resiliência de aplicativo verdadeira.

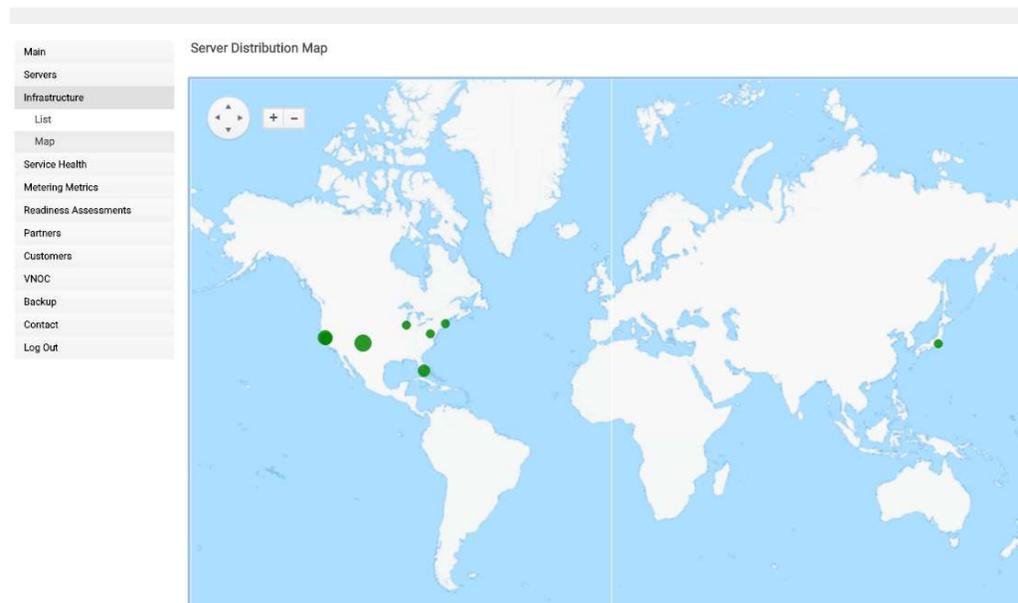
AtYourService Internet Apps

Control	Details	Steps
✓	Execute User Script	\\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName INETMFFTP
✓	Execute User Script	\\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName INETSEARCH
✓	Execute User Script	\\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName ORACLECONN
✓	Execute User Script	\\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName INETVEND12012R2
✓	Execute User Script	\\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName MOBIUS-1
✓	Execute Command	if ((Test-Path D:\AYS-PROD\includes\dbconnections) -and !(Test-Path D:\AYS-PROD\includes\dbconnections_Prod)) { Rename-Item D:\AYS-PROD\includes\dbconnections' D:\AYS-PROD\includes\dbconnections_Prod }
✓	Execute Command	if ((Test-Path D:\AYS-PROD\includes\dbconnections_Sungard) -and !(Test-Path D:\AYS-PROD\includes\dbconnections)) { Rename-Item D:\AYS-PROD\includes\dbconnections_Sungard' D:\AYS-PROD\includes\dbconnections }
✓	Execute Command	if ((Test-Path D:\AYS-PROD\includes\dbconnections) -and !(Test-Path D:\AYS-PROD\includes\dbconnections_Prod)) { Rename-Item D:\AYS-PROD\includes\dbconnections' D:\AYS-PROD\includes\dbconnections_Prod }

✓	Execute User Script \\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName INETSERVERPRODD Controller-2012 (3P6V-1978-7N5F)
✓	Execute User Script \\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName INETMFFTP Controller-2012 (3P6V-1978-7N5F)
✓	Execute User Script \\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName INETSEARCH Controller-2012 (3P6V-1978-7N5F)
✓	Execute User Script \\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName ORACLECONN Controller-2012 (3P6V-1978-7N5F)
✓	Execute User Script \\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName INETVEND12012R2 Controller-2012 (3P6V-1978-7N5F)
✓	Execute User Script \\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName MOBIUS-1 Controller-2012 (3P6V-1978-7N5F)
✓	Execute User Script \\inetmfttp\PowerShell\SQLAliasScript.ps1 -ComputerName MOBIUS-1 Controller-2012 (3P6V-1978-7N5F)
✓	Execute Command if ((Test-Path D:\AYS-PROD\includes\dbconnections) -and !(Test-Path D:\AYS-PROD\includes\dbconnections_Prod)) { Rename-Item D:\AYS-PROD\includes\dbconnections' D:\AYS-PROD\includes\dbconnections_Prod } INETSERVERPRODC (9.19.109.128) Via Controller-2012 (3P6V-1978-7N5F)
✓	Execute Command if ((Test-Path D:\AYS-PROD\includes\dbconnections_Sungard) -and !(Test-Path D:\AYS-PROD\includes\dbconnections)) { Rename-Item D:\AYS-PROD\includes\dbconnections_Sungard' D:\AYS-PROD\includes\dbconnections } INETSERVERPRODC (9.19.109.128) Via Controller-2012 (3P6V-1978-7N5F)
✓	Execute Command if ((Test-Path D:\AYS-PROD\includes\dbconnections) -and !(Test-Path D:\AYS-PROD\includes\dbconnections_Prod)) { Rename-Item D:\AYS-PROD\includes\dbconnections' D:\AYS-PROD\includes\dbconnections_Prod } INETSERVERPRODD (9.19.109.106) Via Controller-2012 (3P6V-1978-7N5F)



- Capacidade de confirmar o local de execução real de uma VM em comparação com o local esperado.
- Confirme a localização em qualquer nuvem em execução, incluindo pública, privada, híbrida e física

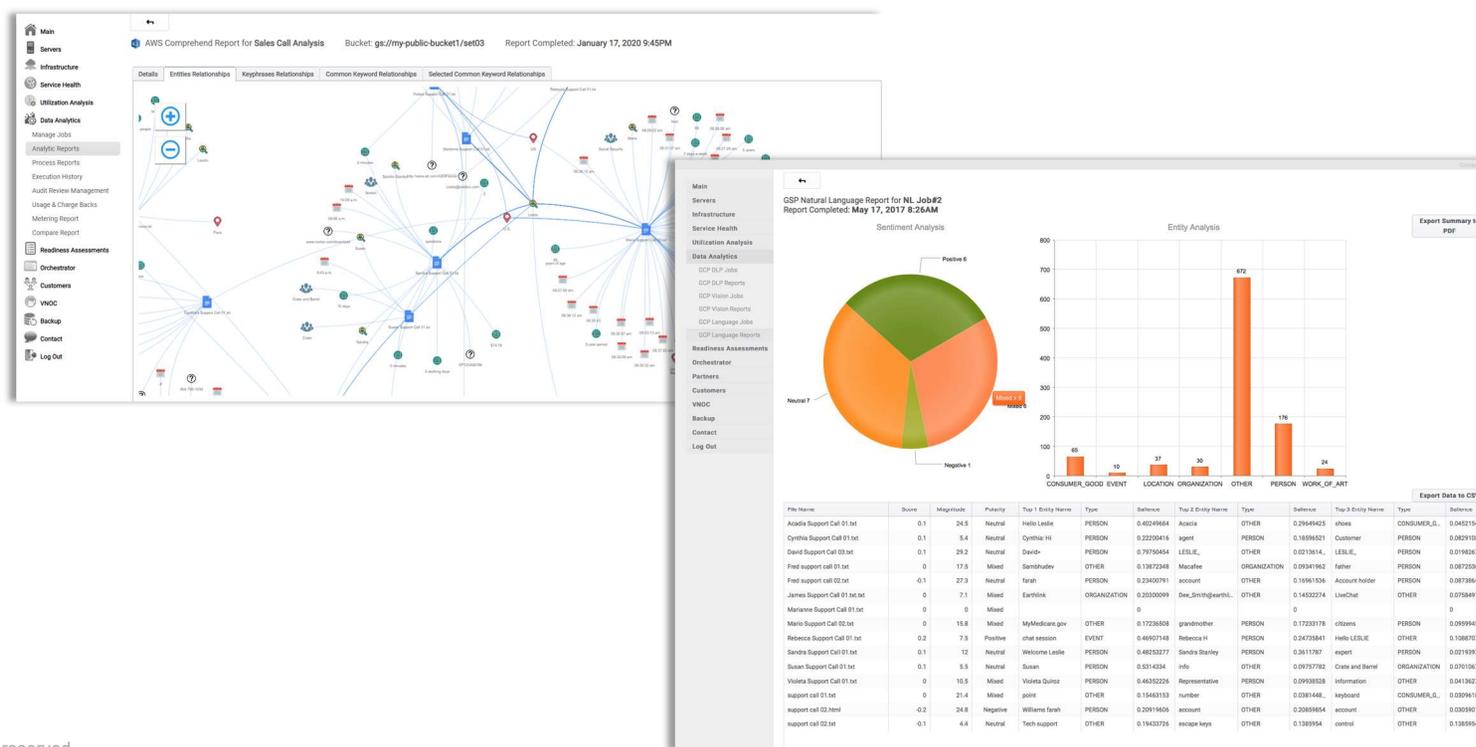




Visualização de Dados Baseados em Inteligência Artificial



- Auxiliar no reconhecimento de pós-análise de dados vinculados por meio de modelos de ML integrados
- Identifique rapidamente os repositórios de dados e vazamentos

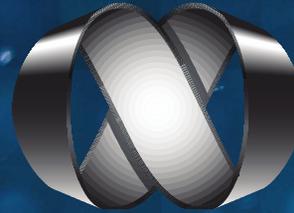




Soluções Prontas para Implementar



- Pré-configurado e pronto para implantar soluções de aprendizado de máquina, análise preditiva, orquestrada e conformidade.
- Implante soluções complexas com um único clique.
- Crie e implante automaticamente soluções personalizadas para seus usuários



OBRIGADO!!!

