Cloud Backup – So sichern Sie Ihre Daten einfach und zuverlässig

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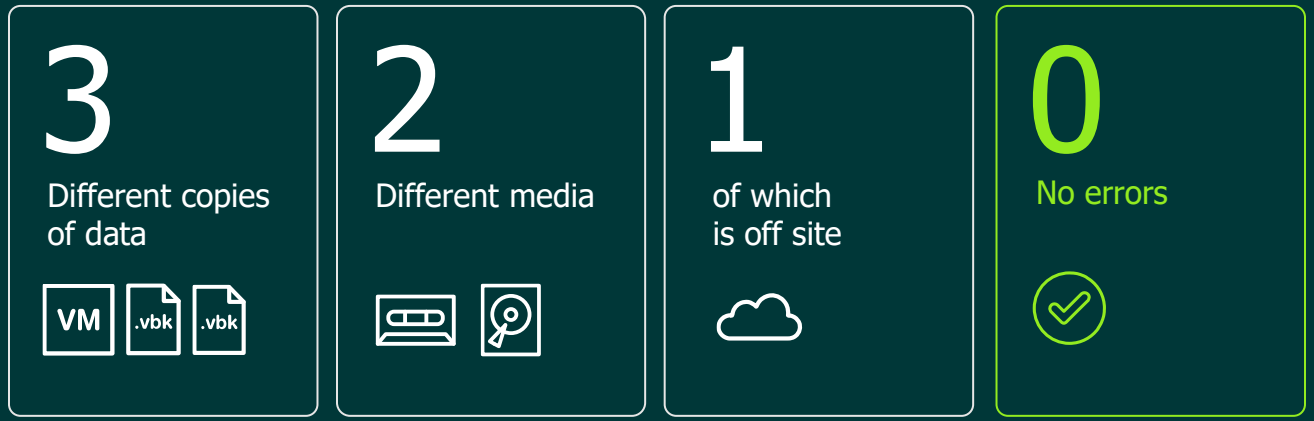
Modern Data Protection & Cloud Offerings

1 Microsoft Active Directory, Exchange, SharePoint
2 Microsoft SQL Server, Oracle, Oracle RMAN, PostgreSQL, MySQL and SAP Hana
3 IBM AIX and Oracle Solaris

VEEAM

3-2-1-0 Rule

3-2-1-0 Rule



Avoiding recovery failure

Veeam's Cloud Offerings

Private | Public | Hybrid | Multi | as a Service

CLOUD-NATIVE

Cloud-native backup and recovery for AWS, Azure and Google Cloud Platform

Backup, restore and eDiscovery for Microsoft Office 365

EXTEND TO THE CLOUD

Extended capacity and archive with Backup to cloud-based object storage

Ransomware stays out with immutable backups in the cloud

Direct-to-cloud restore functions for cloud-based dev/test

POWERED BY VCSP PARTNERS

Expert-built, hybrid cloud BaaS for the data center

Direct-to-cloud backup for laptops with BaaS for endpoints

Cloud-powered failover with DRaaS

Cross-cloud backup with BaaS for Office 365, AWS and Azure

VEEAM

4-in-1 for Best RPOs

1. Backup

2. Replication

3. Storage snapshots

4. CDP

Veeam Cloud Connect

Veeam Cloud Connect

Hosted offsite backup and DR Service, to offer an alternative to having a secondary Data Centre or Disaster Recovery site. Enabling 3-2-1 safety for all workloads

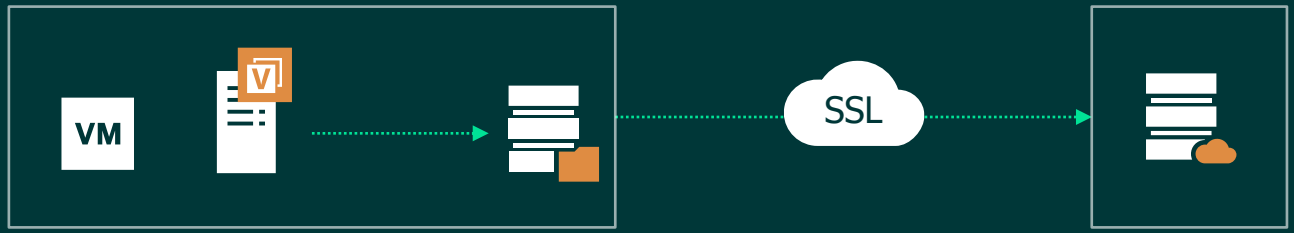
Single SSL Port

- No expensive MPLS, Express Route or VPN connectivity required

Consolidate customer backups to one centralized location

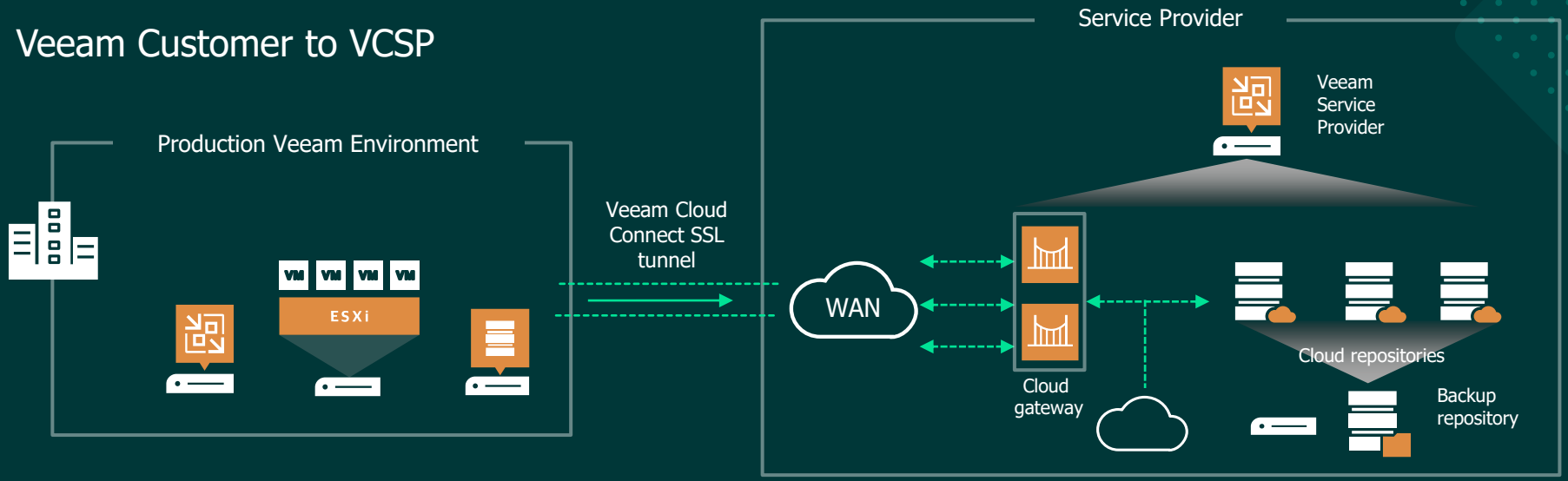
Backup your data directly to the Cloud using Cloud Connect Repositories

- No connectivity to corporate network needed



Veeam Cloud Connect Backup

Veeam Customer to VCSP



Backup data from on-premises to VCSP

Service Provider can leverage AWS, Azure or other IaaS offerings

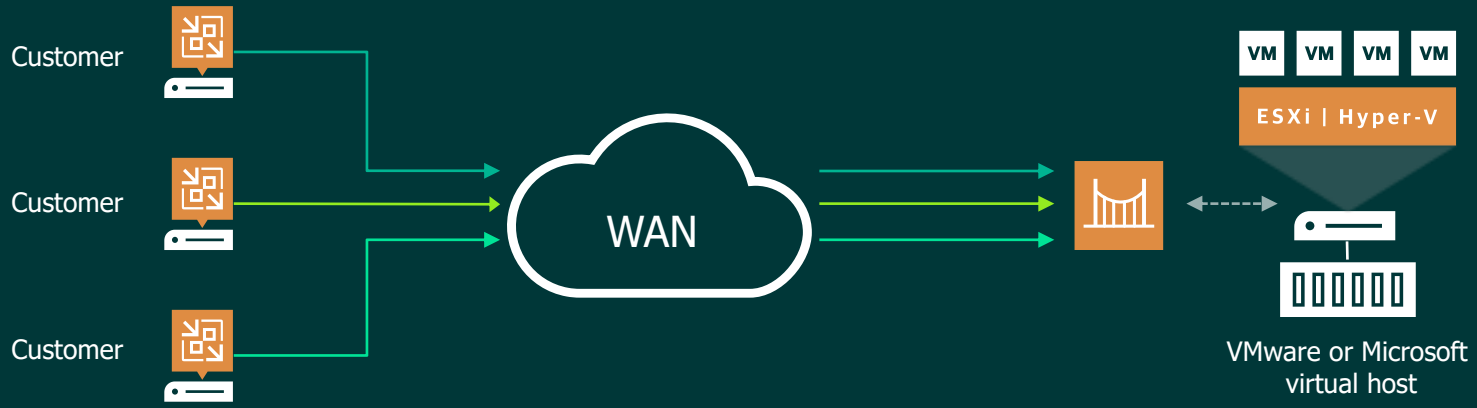
Customer has no cloud resources to manage

Veeam Cloud Connect Replication

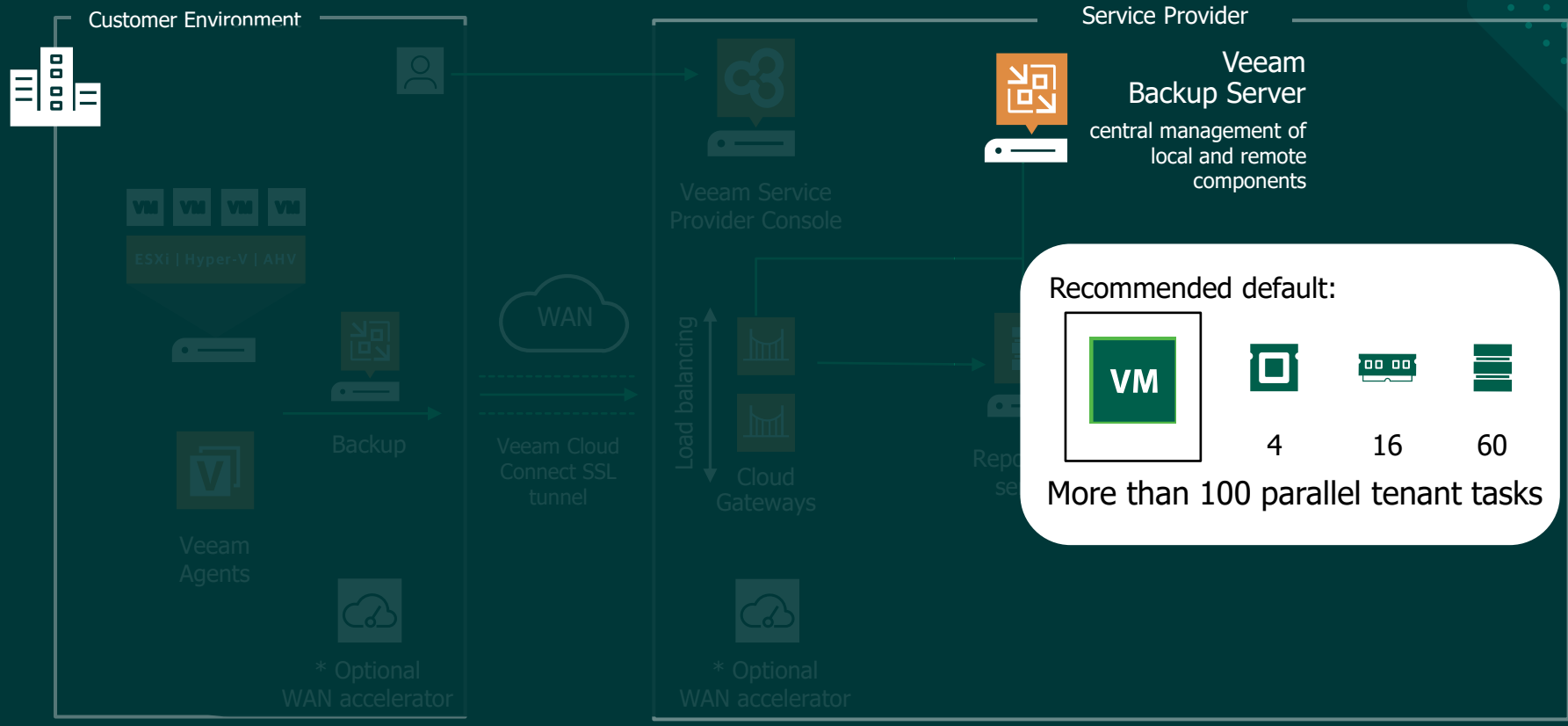
Veeam Backup & Replication provides disaster recovery through image-based VM replication.

Provide Veeam Cloud Connect Replication resources for the following virtualization platforms:

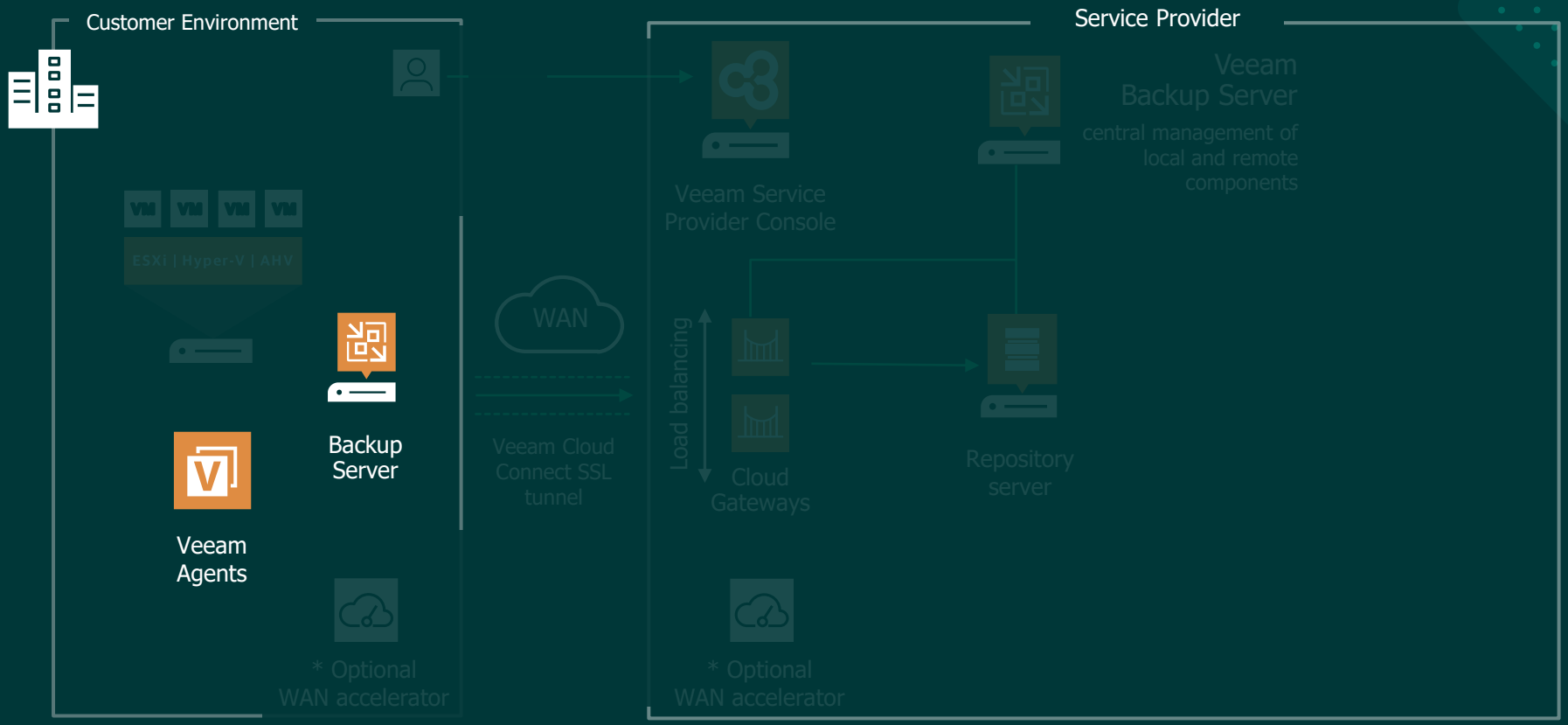
- VMware vSphere / vCloud Director
- Microsoft Hyper-V



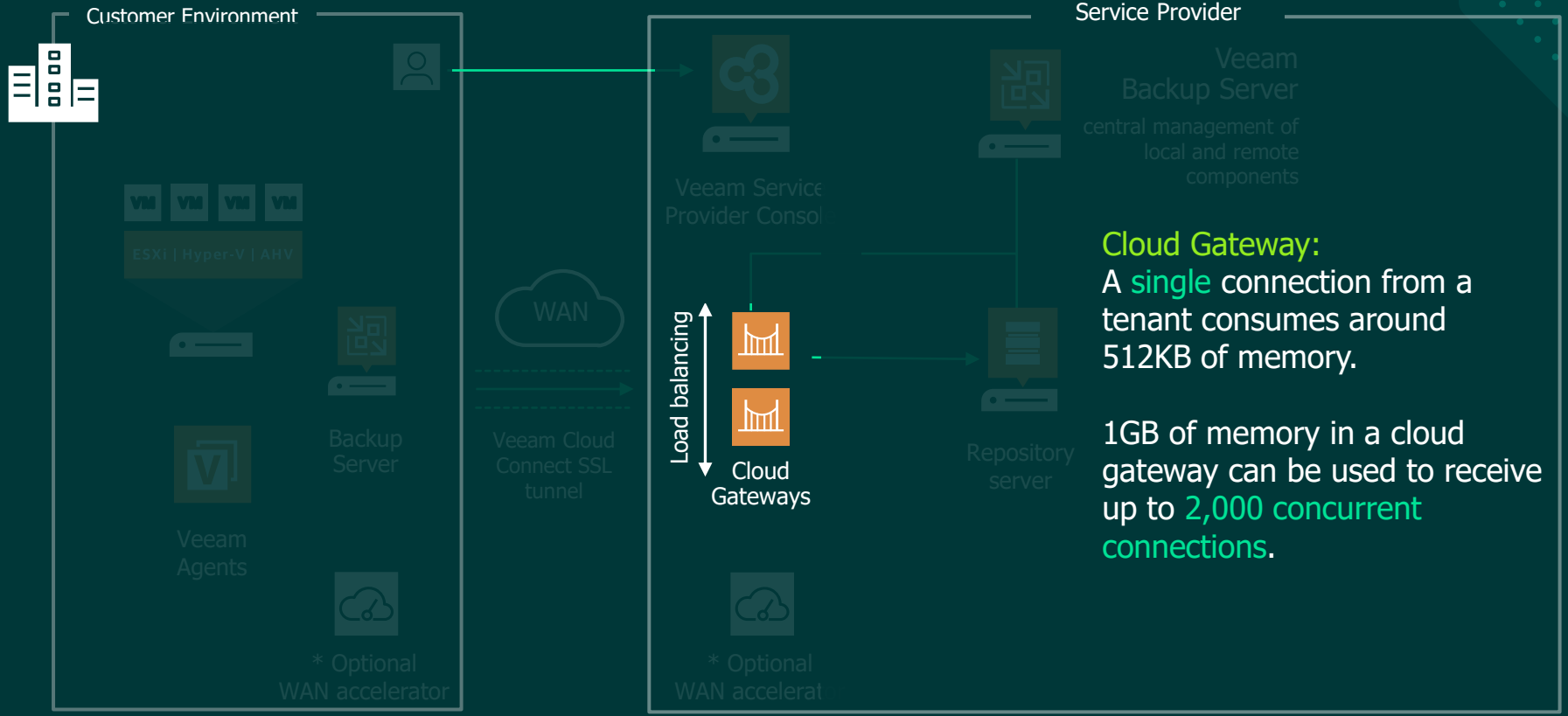
Service Provider Backup Server



Tenant Backup Server or Agents



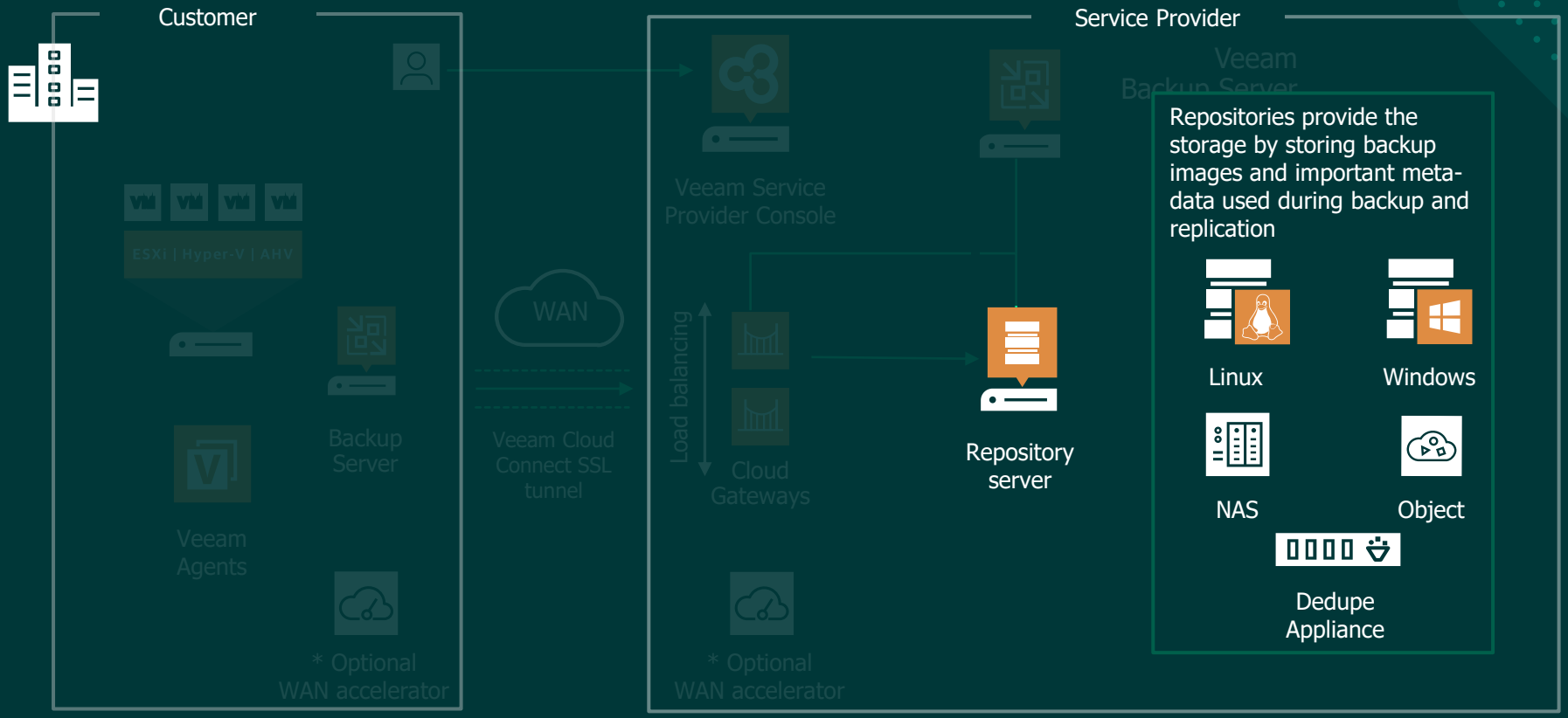
Cloud Gateways



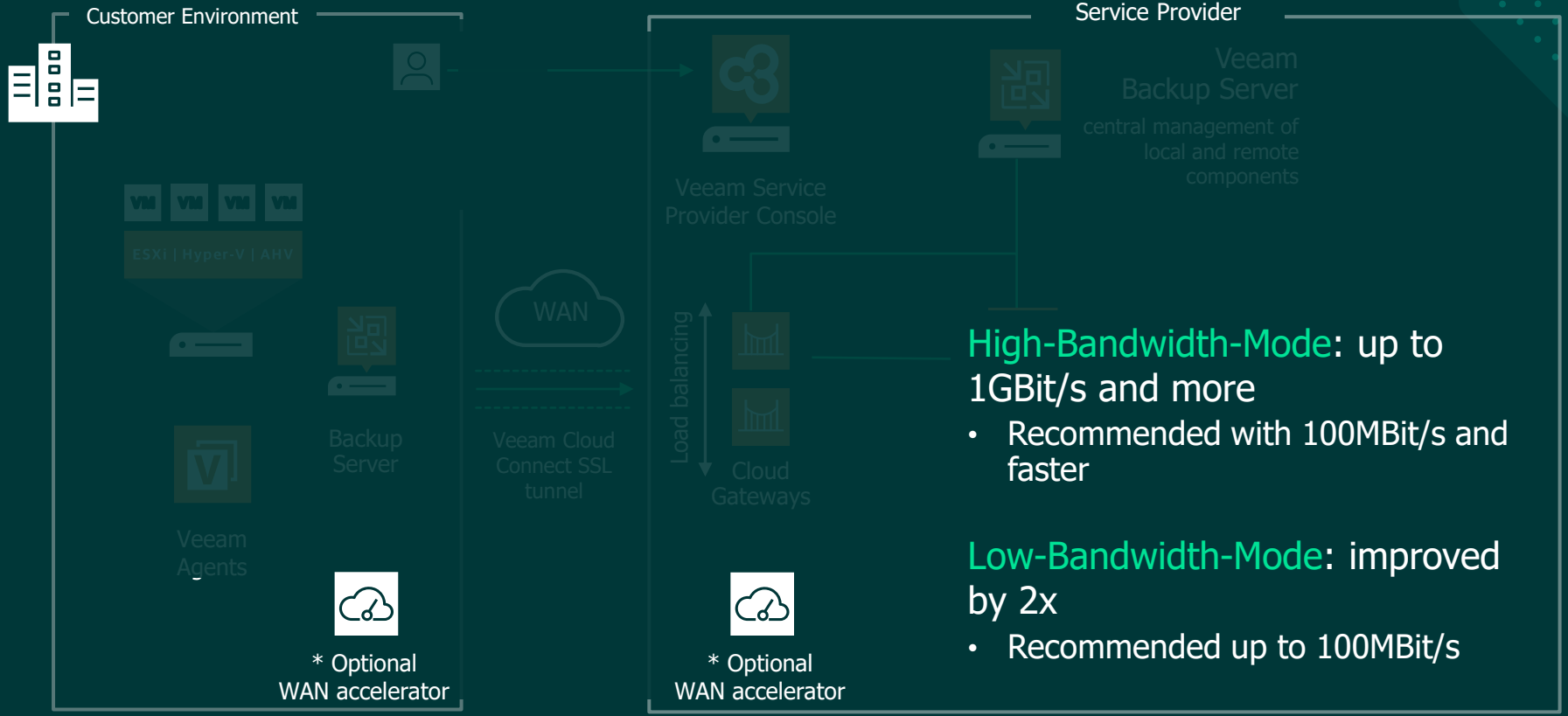
Cloud Gateway:
A single connection from a tenant consumes around 512KB of memory.

1GB of memory in a cloud gateway can be used to receive up to 2,000 concurrent connections.

Cloud Repository



WAN Accelerators



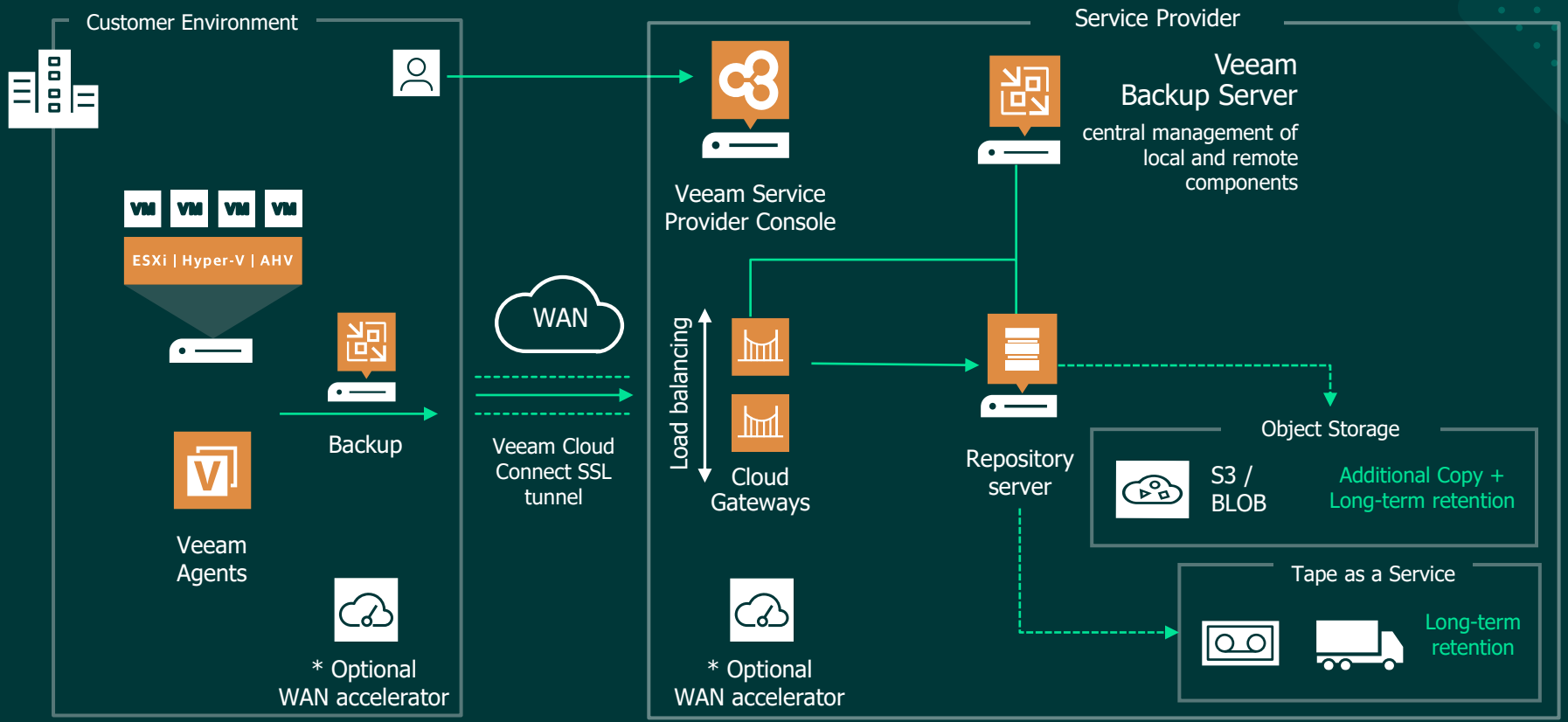
High-Bandwidth-Mode: up to 1GBit/s and more

- Recommended with 100MBit/s and faster

Low-Bandwidth-Mode: improved by 2x

- Recommended up to 100MBit/s

Veeam Cloud Connect - Backup



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Encryption

Data encryption helps tenants protect sensitive VM data from unauthorized access while this data is stored in the cloud repository.

It is recommended that the tenant enables the encryption option for backup jobs targeted at the cloud repository.

Network Traffic Throttling

By default, the Veeam backup server shares available bandwidth equally between all tenants who work with cloud backup and replication resources simultaneously. The bandwidth available to one tenant is equally split between all tasks performed by this tenant.

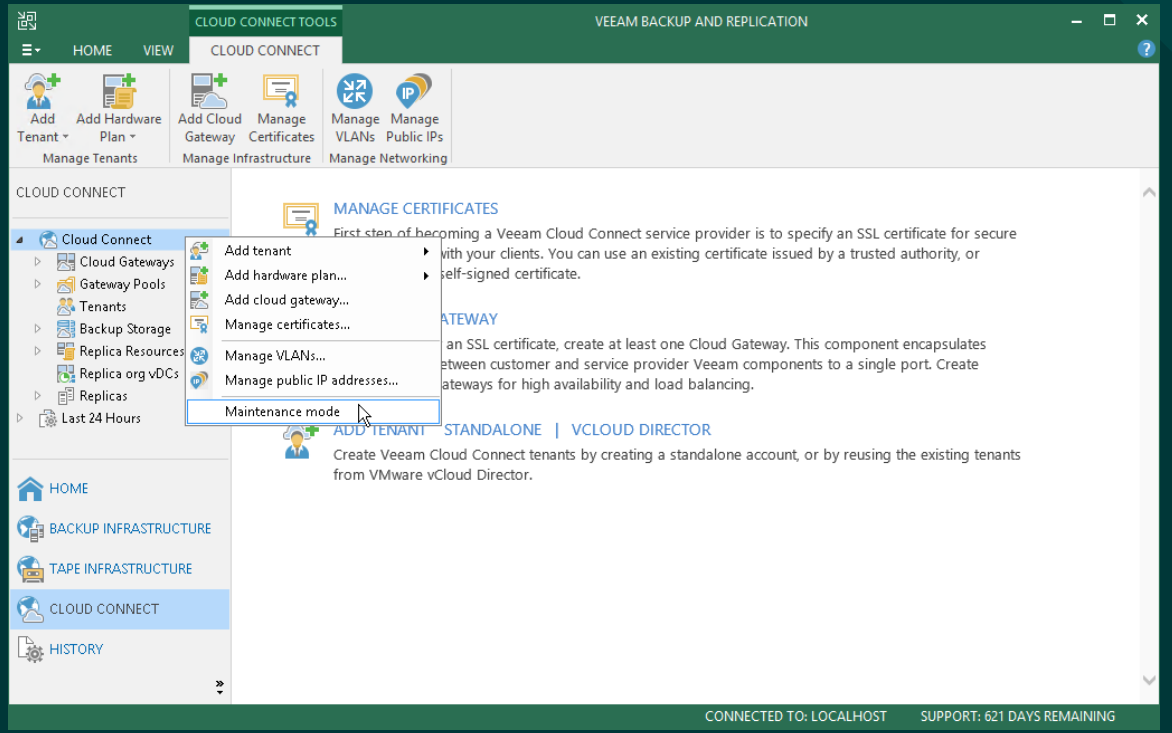
For example, the cloud repository is used by two tenants simultaneously:

- *Tenant 1* runs 2 tasks, backup and restore.
- *Tenant 2* runs 1 task.

In this situation, *Tenant 1* will get 50% of bandwidth and this bandwidth will be equally split between 2 tasks: 25% of the initial bandwidth per task. The task performed by *Tenant 2* will get 50% of the initial bandwidth.

Maintenance Mode

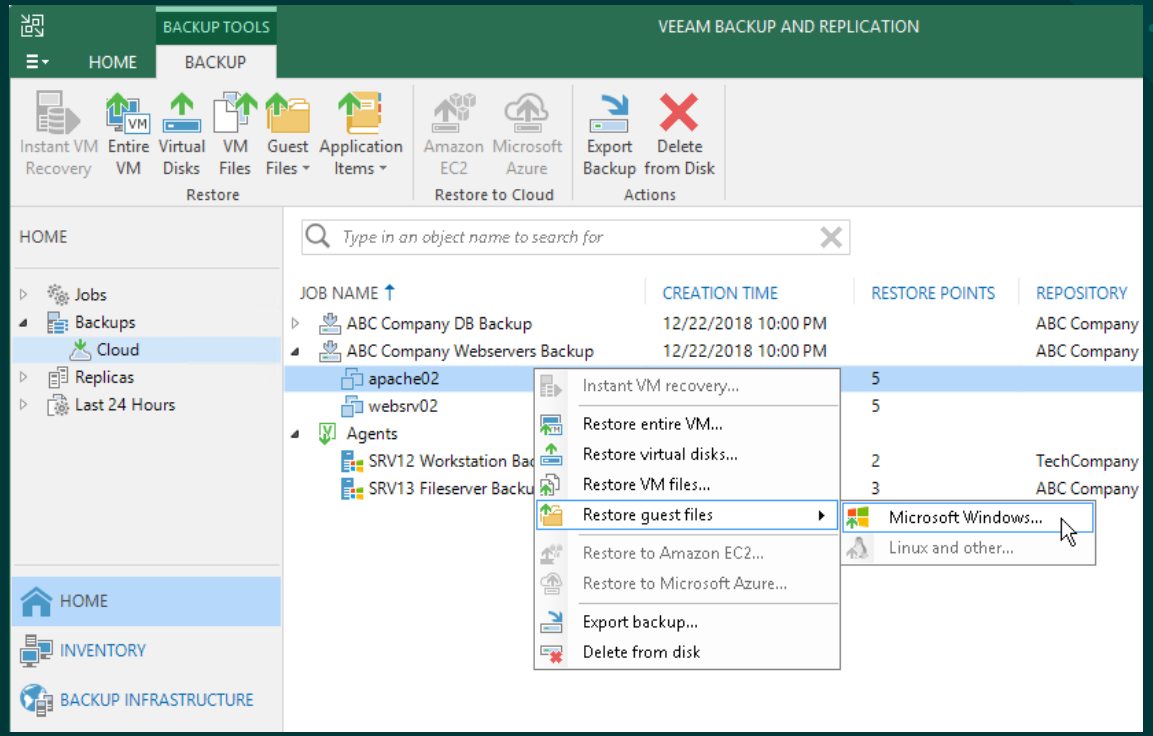
When the SP backup server activates in Maintenance mode, Veeam Backup & Replication notifies tenants who perform backup and/or backup copy jobs that the SP backup server is under maintenance and cloud resources are temporary unavailable.



Recover Full VMs, Files and Folders

Restore functionalities include:

- Full VM restore
- VM files restore
- VM guest OS files restore
- Application items restore
- Disk export
- Backup export

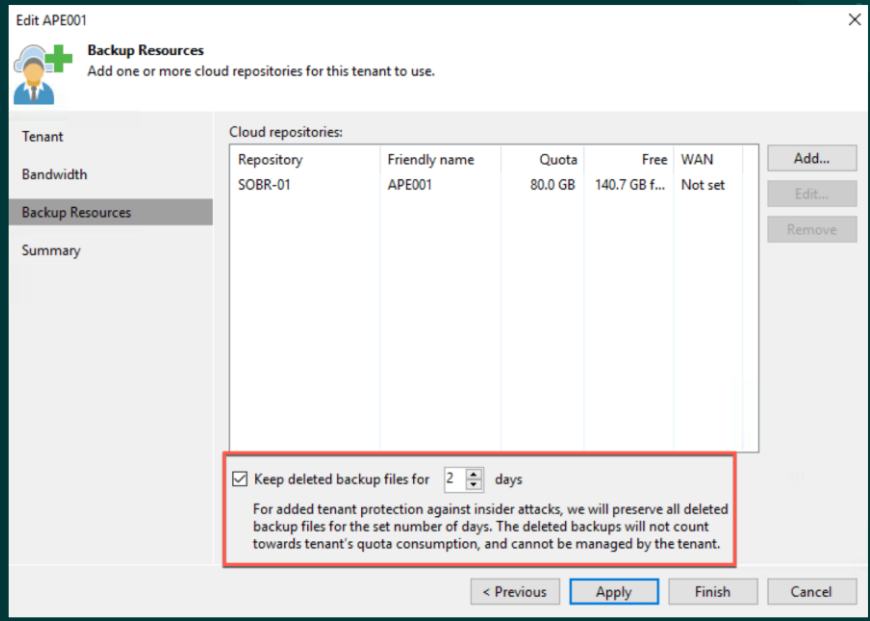


Insider Threat Protection

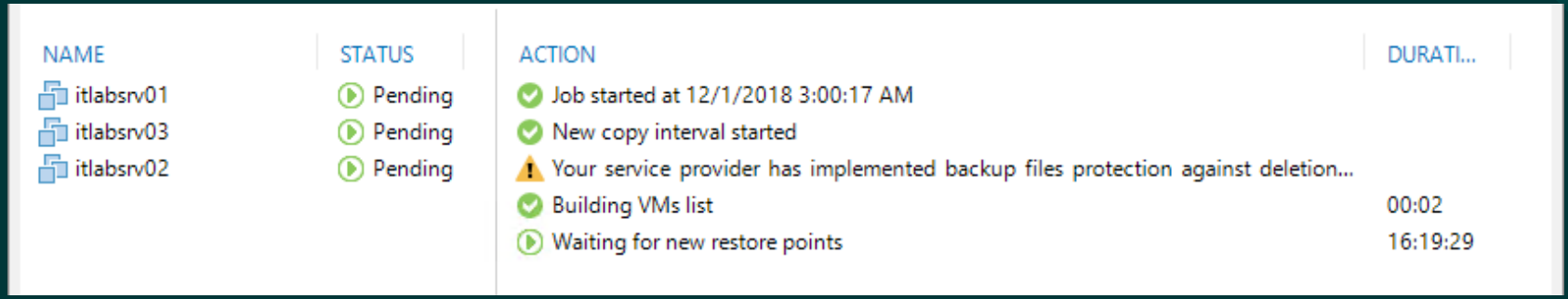
Insider Threat Protection

Insider Threat Protection is an additional protection mechanism for Veeam Cloud Connect backups, able to guarantee the safety of backups stored in Cloud Connect against mis-deletions or attack.

For example during ransomware attacks to present the victim to avoid paying the ransom by restoring data from backup.



Insider Protection



Your service provider has implemented backup files protection against deletion by an insider for this cloud repository.

To protect against advanced attack vectors, we recommend that you configure your cloud backup jobs to keep multiple full backups on disk (as opposed to forever-incremental chain with a single full backup)

Demo

Thank you

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Cloud Backup

„So sichern Sie Ihre Daten einfach und zuverlässig“

THOMAS KRENN®

VEEAM

Kurzvorstellung

Cloud-Marktanalyse

3-2-1-Regel

Praxisbeispiel: Veeam Cloud Backup

Kurzvorstellung

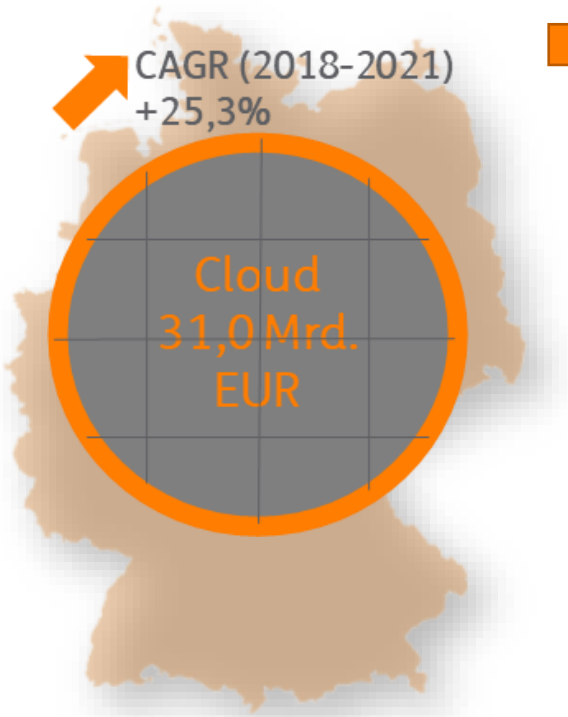
Uli Hurzlmeier

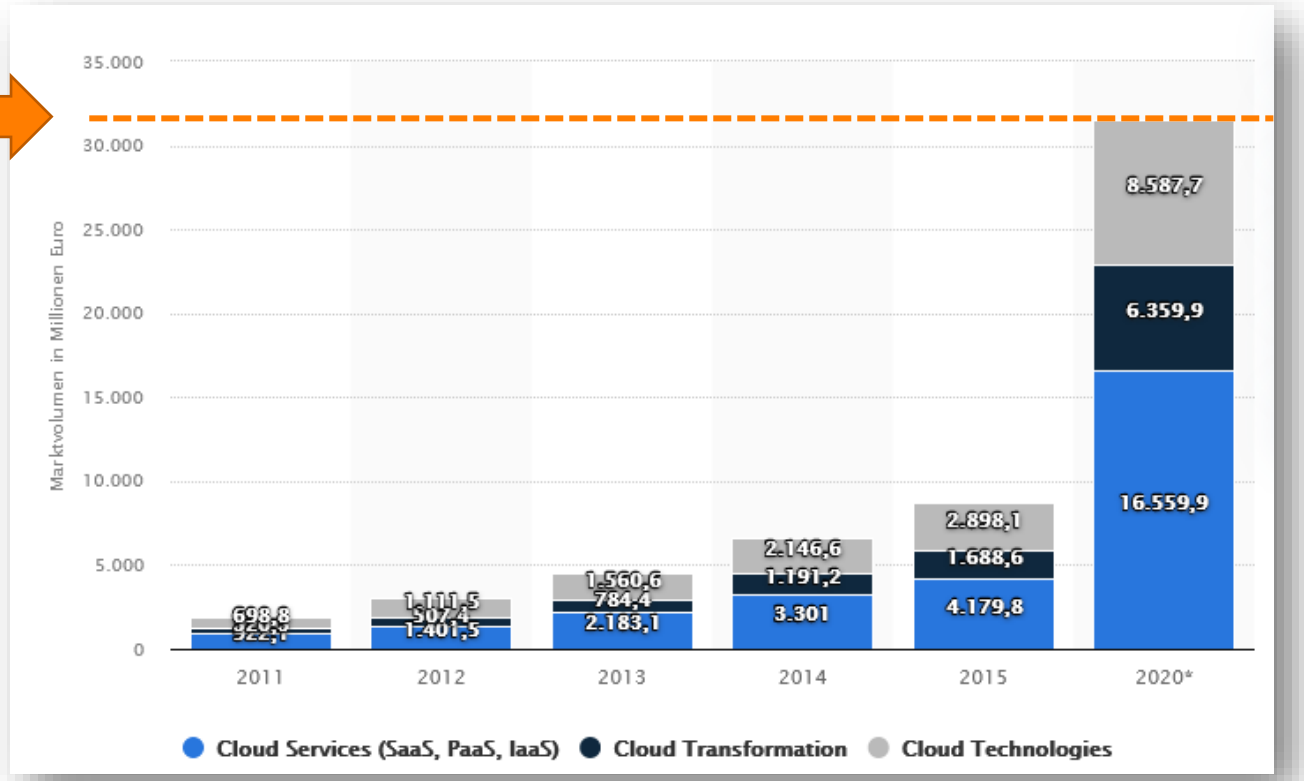
- 33 Jahre
  - B. Eng Technologiemanagement
- Business Developer
- Branchenerfahrung:
  - Industrie, Schwerpunkt:
  - Maschinenbau für die Lebensmittelindustrie

Cloud-Marktanalyse

Marktanalyse

Marktvolumen von Cloud Computing (B2B) in Deutschland nach Segment von 2011 bis 2015 und Prognose für 2020

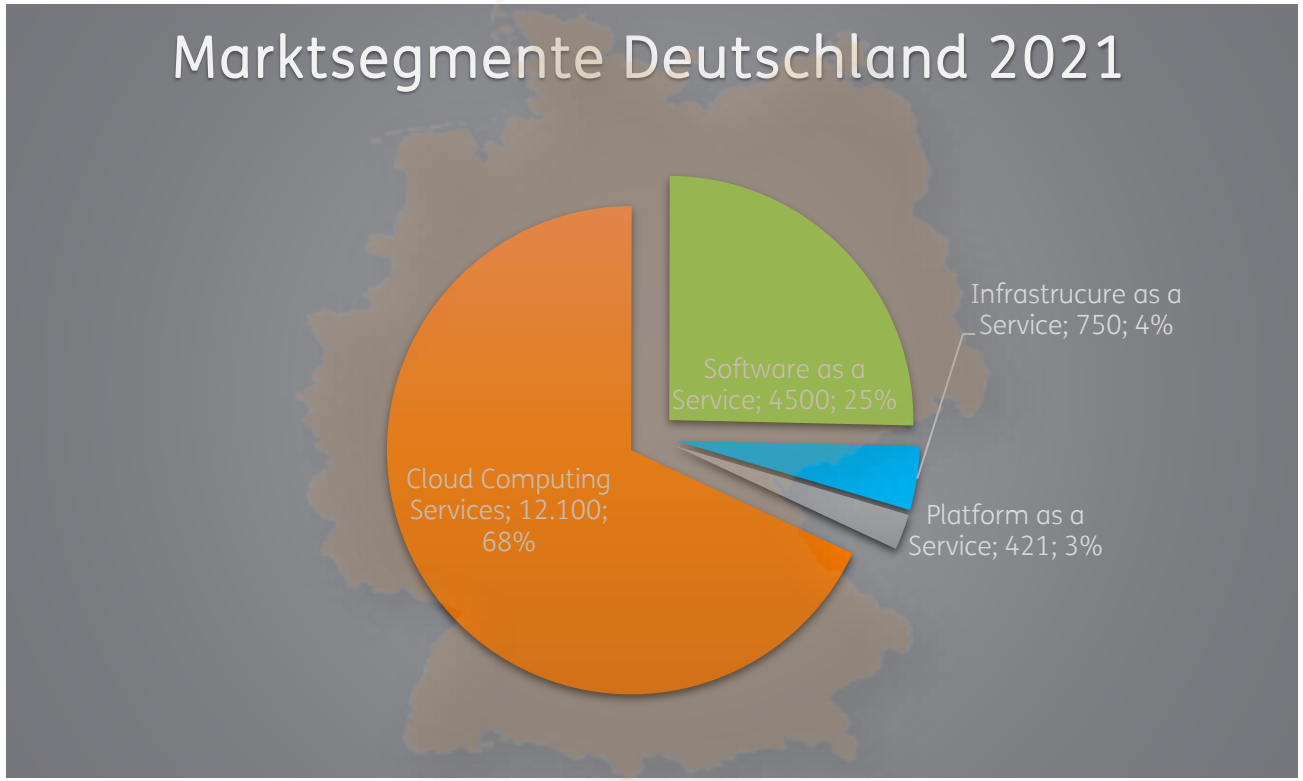




Quelle: Statista, Abrufdatum: 09.11.2021

Marktanalyse

Cloud - Marktsegmente Deutschland 2021



Wichtige Kennzahlen

MARKTKENNZAHLEN DEUTSCHLAND

Prognose zum Umsatz mit Cloud-Computing-Services in Deutschland 2021
12,1 Mrd. €

Marktvolumen von SaaS in Deutschland
4,5 Mrd. €

Marktvolumen von PaaS in Deutschland
421 Mio. €

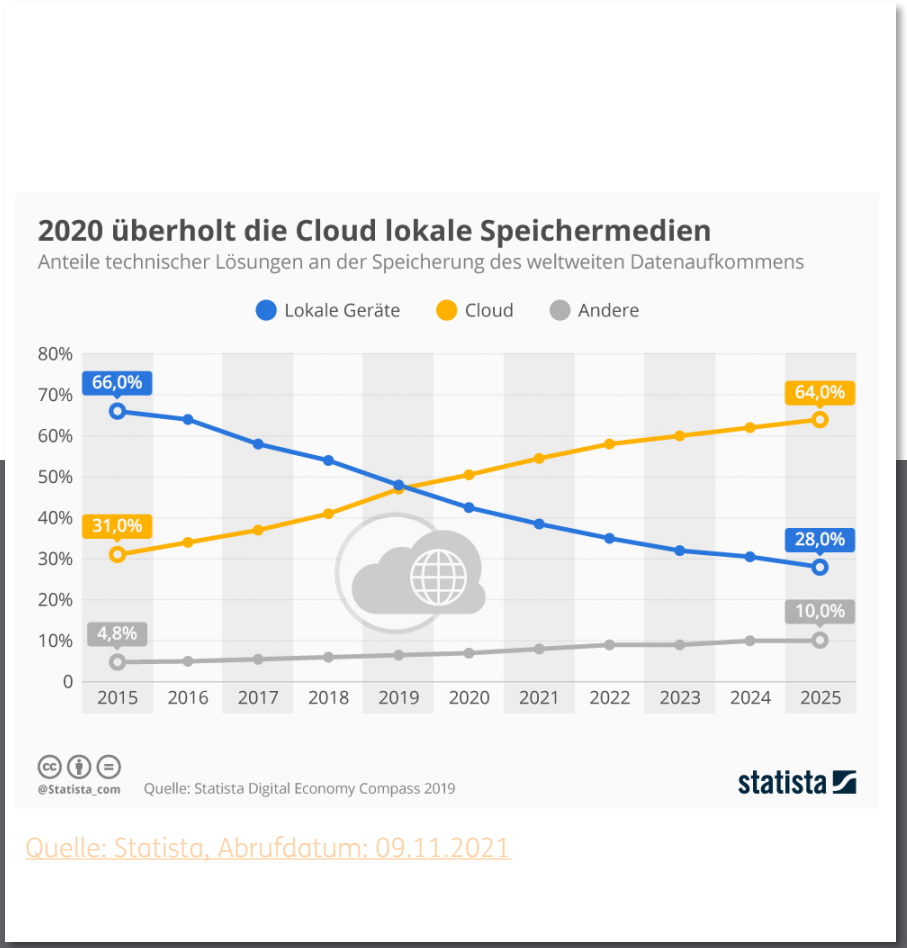
Marktvolumen von IaaS in Deutschland
705 Mio. €

Quelle: Statista, Abrufdatum 09.11.2021

Marktanalyse

Trends

Quelle: Statista, Abrufdatum: 09.11.2021



Quelle: Statista, Abrufdatum: 09.11.2021

Ausgangssituation

Warum Cloud Backup?

Konformität

- Aufbewahrungsfristen für Daten gesetzlich gefordert (z.B. §147 AO)
- Art und Weise der Datensicherung nicht gesetzlich vorgeschrieben
- DSGVO-Konformität gefordert, speziell bei personenbezogenen Daten

Verfügbarkeit & Sicherheit

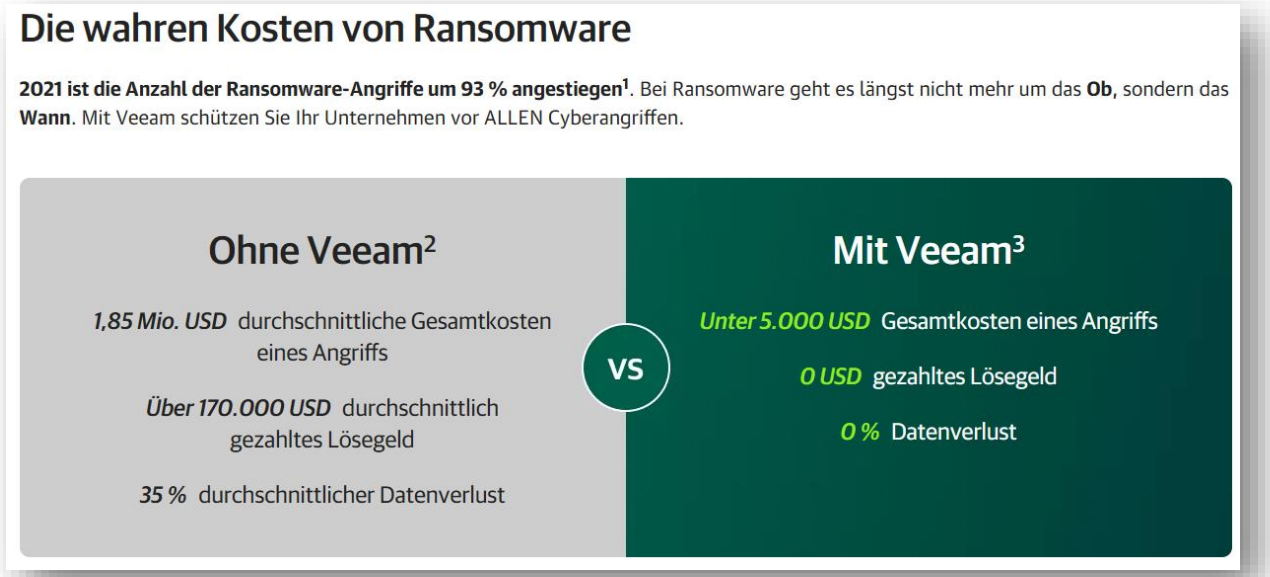
- Angriffsziel deutsche Wirtschaft: mehr als 220 Milliarden Euro Schaden pro Jahr
- Cyberattacken betreffen nahezu 9 von 10 Unternehmen

Wirtschaftlichkeit

- Ausfall der IT-Infrastruktur oder Datenverlust führen zu erheblichen Einschränkungen im Geschäftsablauf

Ausgangssituation

Zahlen und Fakten



[1] Check Point Software. Mid-Year 2021 Security Report.

[2] Sophos (April 2021). The State of Ransomware 2021.

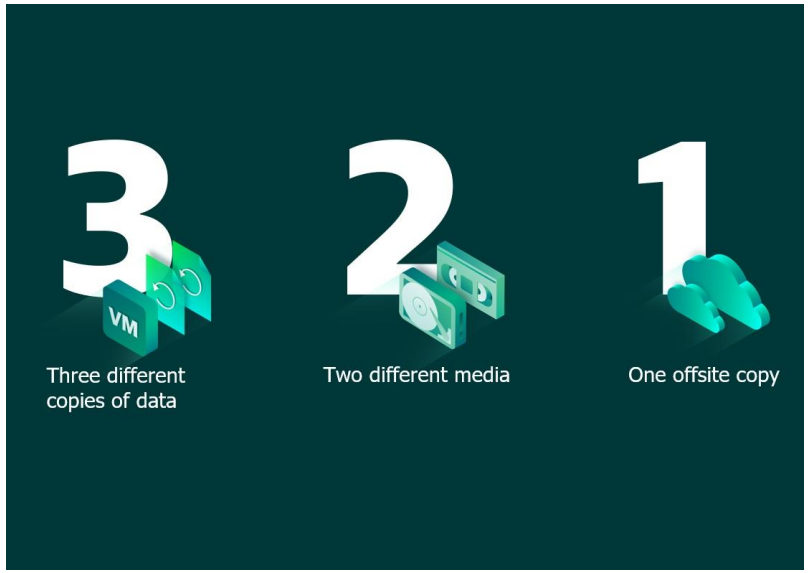
[3] Veeam (13. August 2020). *Ransomware Study Final Analysis.*

Backups sind für jedes Unternehmen überlebensnotwendig.
Dennoch sind sie gerade in IT-fernen Branchen oft ein „lästiges Muss“.
Mit der Datensicherung in der Cloud vereinfacht sich jetzt nicht nur der Prozess, die Daten bleiben hochverfügbar, maximal geschützt und können im Ernstfall sofort wieder hergestellt werden.

3-2-1-Regel

3-2-1-Regel

3-2-1 Regel



Definition

- 3 unterschiedliche Kopien, 2 unterschiedliche Medien, 1 externe Kopie
  - Ortsunabhängige Sicherung der Daten
  - Erhalt Ihrer Sicherungskopie selbst bei Naturkatastrophe, Brand o.ä.
  - Beschleunigte Wiederherstellung im Schadensfall oder bei Verlust

Praxisbeispiel

Darum Veeam Cloud Backup

Zusammenfassung

- Einfaches Auslagern Ihrer Backups in das Veeam Cloud-Repository
  - Weniger personeller Aufwand
  - Jederzeit hochverfügbare Daten
- Intuitive Bedienung (Sie haben bereits Veeam im Einsatz – umso einfacher!)
- Maximale Flexibilität, Skalierbarkeit & Kostenkontrolle
  - Sie passen die Größe einfach Ihrer Datenmenge an und bezahlen nur, was Sie auch wirklich brauchen
  - Monatliche Bezahlung – jederzeit kündbar!

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Vielen Dank für Ihre Aufmerksamkeit!