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Hypervisor Re-platforming and Migration Services

Today's IT environments require virtualization platforms that are cost-effective, reliable, and integrated into the broader data center ecosystem. As organizations reevaluate their infrastructure strategy in response to escalating licensing fees, many are looking for more sustainable alternatives that do not compromise on performance or scalability. Many organizations are adopting enterprise-grade hypervisors built on a KVM-based architecture, providing robust virtualization and enterprise capabilities without the expensive, inflexible licensing typically associated with other virtualization platforms.

What Is Connection's Hypervisor Re-platforming and Migration Service?

Regardless of whether it's a net-new greenfield implementation or a re-platforming exercise with workload migration, our services team can plan, design, and deploy a variety of hypervisors and virtualization platforms. Connection can also assist our customers with adoption, including the migration of virtual machines from legacy vSphere infrastructures.

On-premises / Colo / Edge Platform Options:

Connection can plan and deploy a number of hypervisors, including Nutanix AHV, HPE VM Essentials, VMware VCF, Microsoft Hyper-V, Azure Local, scale computing, Red Hat OpenShift, and more.

IaaS Cloud Hosting Options:

We can assist in the planning, onboarding, and migration of VM workloads to multiple IaaS cloud service providers, including AWS, Azure, and GCP.

Why Connection?

Connection offers products, technical expertise, services, and solutions to help your business adapt to the ever-changing technology landscape. Connection designs and deploys infrastructure solutions tailored to each customer's unique business needs, enabling them to optimize spend while enhancing agility.

Benefits of the Hypervisor Re-platforming and Migration Service:

Connection helps your organization fully leverage your new hypervisor by simplifying deployment, improving operational efficiency, and ensuring a seamless migration from existing virtualization platforms. Whether you are beginning a new virtualization project or migrating from an established hypervisor, our virtualization specialists provide guidance at every phase—from initial planning and design to optimization and virtual machine migration. Some highlights and benefits of the service include:

- **Independent Expert Analysis and Advisory Services:** Gain objective insights and re-platforming recommendations from certified professionals who bring expertise and experience interpreting complex virtualization environments.
- **Data-driven Assessment:** Connection subject experts combine data collection toolsets with deep expertise to rapidly understand your virtual infrastructure's current state.
- **Strategic Roadmap Alignment:** Connection engineers provide a tailored implementation, workload migration, and adoption plan combined with a multiphasic strategic roadmap that is aligned with your organizational requirements.
- **Full-platform Deployment Services:** Connection virtualization experts provide a full-stack deployment, from the underlying compute platform and data center fabric to the hypervisor, incorporating new data protection options.

Hypervisor Re-platforming Operational Domains:

- **Hypervisor / Unified Stack Implementation:** Connection provides comprehensive professional services for the deployment of a wide variety of hypervisors and unified virtual machine / container hosting platforms.
- **Workload Migration:** Our certified engineers leverage a proven methodology coupled with a comprehensive services approach to the migration of VM workloads from legacy hypervisors to your new platform. Our planful approach to migrations minimizes downtime and operational disruptions.
- **Hardware Re-platforming:** The adoption of a new virtualization platform often benefits from—or requires—a planful re-platforming approach that includes the deployment of the new hypervisor on the latest generation of high-density virtualization hosts. Our subject matter experts can design and deploy the underlying compute nodes.
- **Data Protection and Disaster Recovery:** Connection helps you design and implement a data protection strategy that adheres to your business continuity requirements using integrated data protection or third-party backup applications.

On-premises / Colo / Edge Platform Options—Hypervisors and SDDCs:

Connection can plan, design, and implement a wide variety of hypervisors and unified full-stack software-defined data center (SDDC) platforms:

- **Nutanix Cloud Platform:** Nutanix Cloud Platform (NCP) delivers the core infrastructure resilience, operational simplicity, and cloud mobility that organizations require for today's dynamic hybrid IT landscape. By combining software-defined compute, storage, virtualization (AHV), and networking into a single unified platform, Nutanix simplifies the complex data center. NCP unifies infrastructure management and security into a consistent, repeatable model that supports agility, cost efficiency, and business growth across on-premises, edge, and public cloud environments.
- **Microsoft Hyper-V:** Hyper-V is deeply embedded in the Windows Server platform, making it a natural fit for organizations with existing Microsoft infrastructure. Its seamless integration with tools like Windows Admin Center, System Center, and Azure Arc allows IT teams to manage virtual environments using familiar workflows and skillsets. Hyper-V offers organizations a smooth migration path without sacrificing performance, manageability, or flexibility.
- **Azure Local:** Azure Local, formerly known as Azure Stack HCI, is Microsoft's full-stack, hyperconverged infrastructure (HCI) software that allows you to run virtual machines (VMs), containers, and select Azure services on your own on-premises hardware. By using Azure Local, you can manage your distributed infrastructure across different physical locations (like data centers or branch offices) directly through the Azure portal via Azure Arc, thus providing a true hybrid stack.
- **Scale Computing:** Scale Computing HC3 is a modern hyperconverged (HCI) platform designed to simplify and optimize virtualization infrastructure for organizations of all sizes. By integrating compute, storage, hypervisor, and disaster recovery into a single solution, HC3 improves operational efficiency and ensures high availability while reducing infrastructure complexity.
- **HPE VM Essentials:** HPE VM Essentials provides a unified solution that simplifies management of existing VMware deployments and facilitates the re-platforming of workloads to HPE's KVM-based hypervisor for customers wishing to reduce cost and complexity without sacrificing performance, manageability, or flexibility—all while offering a smooth migration path.
- **VergeIO:** VergeIO is an ultraconverged infrastructure (UCI) platform that collapses the IT stack (virtualization, storage, and networking) into an integrated software-defined data center. The efficiency of VergeOS provides high workload density on existing hardware with robust data resiliency. VergeOS also runs Kubernetes and Rancher natively alongside virtual machines.
- **VMware vSphere Foundation (VVF):** VMware vSphere Foundation (VVF) is a simplified, enterprise-grade workload platform for small and mid-sized organizations who do not require the benefits of the broader VMware Cloud Foundation offering. The VVF solution integrates vSphere with VMware's intelligent operations management platform.
- **VMware Cloud Foundation (VCF):** VMware Cloud Foundation (VCF) delivers a unified and automated platform, simplifying the deployment of a fully integrated infrastructure-as-a-service (IaaS) stack. Enabling consistent, secure, and agile operations across private and public clouds, VMware Cloud Foundation ensures that organizations can flexibly scale their infrastructure to meet evolving business needs. VCF consolidates SDDC functionality in a way that significantly reduces the complexity of private cloud deployments.



Compute Nodes - Connection's Hardware Platform Options:

To deliver a unified, turnkey approach to deployment, adoption, and migration, Connection can implement a full stack to your specifications, from the underlying compute nodes to the hypervisor or virtualization and container platform.

Some of the most common OEMs and server platforms for each solution are listed below:

Nutanix Cloud Platform:

Nutanix NX Series
(Nutanix-branded turnkey appliances)
Dell PowerEdge XC Series / XC Core
HPE ProLiant DX Series Factory-integrated Nutanix appliances
Lenovo ThinkAgile HX Series
Cisco UCS C-Series and UCS X-Series platforms

VMware Cloud Foundation (VCF):

Dell PowerEdge R-series
HPE ProLiant DL Gen11 / Gen12
Lenovo ThinkSystem and ThinkAgile VX / FX
Cisco UCS C-Series / X-Series

HPE VM Essentials with Morpheus:

HPE ProLiant DL Gen10+ / Gen11 / Gen12
HPE SimpliVity 325 / 380 Integrated HCI with VM Essentials hypervisor option
HPE Private Cloud Business Edition / PC3000
Dell PowerEdge

Microsoft Azure Local:

Dell AX Series
HPE ProLiant DL-based Azure Local Integrated Systems
Lenovo ThinkAgile MX Series
Cisco UCS C-Series Azure Local bundles

Scale Computing:

Scale Appliances HC and HE Series
Lenovo ThinkSystem SR630 / SR650, ThinkEdge SE100

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Infrastructure-as-a-Service (IaaS) Hosting Options:

Connection provides adoption and migration services for the most common cloud-based hyperscalers:

- **AWS:** Migrating virtual infrastructure to AWS EC2 provides on-demand scalability, consumption-based pricing, rapid provisioning, and reduced hardware management. Organizations gain global availability, flexible compute options, automation, integrated security and cloud services, improved disaster recovery, and a foundation for application modernization.
- **Microsoft Azure:** Migrating virtual machines to Azure IaaS provides scalability, rapid resource provisioning, and integrated security. Organizations enjoy global availability, backup and disaster recovery, hybrid cloud capabilities, automation, and integration with Microsoft Azure services. And the addition of Azure Local delivers unified cloud-based management of an on-premises multi-host Azure stack.

Compute Nodes—Connection's Hardware Platform Options:

- Migrating to a new virtualization platform is an opportunity to re-platform the infrastructure to modern, more performant and efficient servers—often resulting in a lower host count and reduced power and cooling requirements. Connection can deliver a full-stack deployment, from rack-and-stack, server installation, hypervisor implementation, and workload migration. Some of the most common server OEMs and platforms that Connection can deploy are listed on the left.

OPEX and Managed Private Cloud Offerings:

- **Dell APEX** is a cloud-like, consumption-based infrastructure platform delivering Dell compute, storage, and data services on-premises or in the cloud. Migrating virtual workloads to APEX provides flexible scaling, predictable costs, simplified management, and improved hybrid-cloud agility.
- **HPE GreenLake** is a hybrid-cloud platform delivering infrastructure and cloud services through a flexible, consumption-based model. Migrating virtual workloads to GreenLake provides scalable capacity, simplified management, reduced capital expense, faster provisioning, workload flexibility, and a consistent cloud-like operating experience.

Large-scale Virtual Machine / Workload Migration Services:

- **Speed and Assurance:** Connection provides virtual machine migration services to efficiently migrate your workloads to your new virtualization platform (or cloud provider), following a structured methodology that enables large-scale migrations.

Decision Guidance–Platform Highlights and Differentiators:

- Nutanix excels at enterprise operational continuity and HCI maturity.
- OpenShift for application modernization and platform engineering.
- Scale Computing is a strong choice for Edge and ROBO, with mid-market simplicity.
- Hyper-V / Azure Local delivers Microsoft estate alignment, with Azure hybrid cloud.
- HPE VM Essentials for HPE infrastructure alignment and VMware co-existence.
- Verge.io for aggressive private cloud cost optimization on non-uniform nodes.

To learn more about Hypervisor Re-platforming and Migration Services, contact your Account Team today!

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