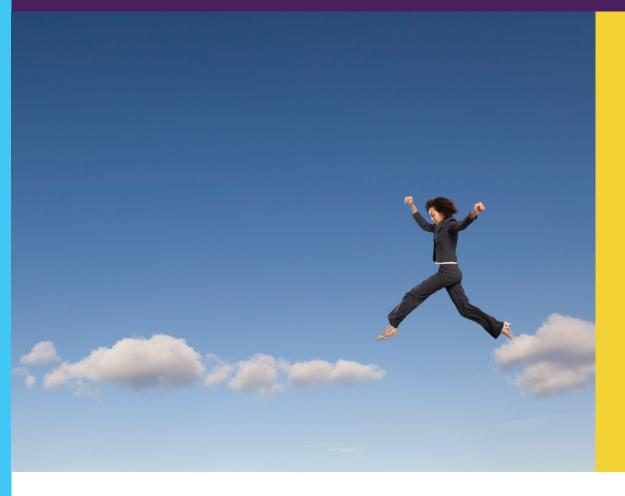# LAUNCH CLOUD EXTENDER

SEAMLESS EXPANSION INTO A HYBRID PRIVATE CLOUD

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LAUNCH CLOUD EXTENDER IS THE TECHNOLOGY BEHIND MACQUARIE TELECOM'S TRUE HYBRID PRIVATE CLOUD SOLUTIONS. IT OFFERS INCREASED FLEXIBILITY, LOWERED TCO AND REDUCES RISK BY SEAMLESSLY EXTENDING PRIVATE VMWARE ENVIRONMENTS INTO A SCALABLE VIRTUAL PRIVATE CLOUD SOLUTION.

CHALLENGES OF GROWING IT

Corporate IT infrastructures are rapidly expanding and require constant extensions of compute, storage and networking systems. Virtualisation supports this expansion and has helped to increase the density of server farms, but when in-house IT reaches its limits, significant investments in hardware, software and services are required. On-premise IT infrastructure investments are scaled to match the predicted mid-term or long-term demand which results in non-utilised resources. Cloud computing provides a flexible way to expand IT resources on demand, yet standard cloud solutions are built on separate individual networks and compute platforms which may be unsuitable for integrated solutions currently hosted in-house.

SEAMLESS NETWORK EXPANSION

LAUNCH Cloud Extender provides a networking pathway to expansion of private VMware environments by connecting them seamlessly to Macquarie Telecom's virtual private cloud. This allows organisations to adopt the advantages of cloud computing without the need to change their local network or application configuration. The solution provides a virtual Layer 2 connection between both environments, utilising VMware's software defined network technology (VMware NSX), making them virtually one network. LAUNCH Cloud Extender enables true hybrid hosting without any technology barriers and security implications.

SCALED-OUT PRIVATE CLOUD

LAUNCH Cloud Extender allows organisations to utilise the advantages of cloud computing to scale out their compute, storage and network resources, regardless of their existing server environment being located in-house or in a colocation facility.

LAUNCH Cloud Extender also enables a seamless integration into a Macquarie Telecom Virtual Data Centre (VDC) over a normal Internet or data network connection. As the VDC becomes part of the local data centre, existing applications can be moved and new applications can be deployed in the cloud under the same IP address range –without the need to alter any configuration changes to existing applications. This true hybrid cloud approach offers not only a solution for on-demand growth but also ensures that the existing security strategy stays untouched and is uncompromised.

Organisations currently utilising a VMware vCloud Automation Center are able to manage their hybrid solution from their single internal management console. Macquarie Telecom's cloud simply appears as a new deployment location.

APPLICATION DISASTER RECOVERY

LAUNCH Cloud Extender is also the basis for the new Disaster Recovery solution LAUNCH Application DR. Individual applications hosted in-house, in colocation or in a self-managed VDC can be replicated to a VDC in a different location or availability zone. The Layer 2 network connection provides instant failover capabilities to the replicated application in the DR site, in case the production application goes down. The solution requires no configuration changes on the application or user's side and provides the option to restore to any point in time of a configurable timeframe.

REDUCED COST AND RISK WITH OFFSITE DATA STORAGE

LAUNCH Cloud Extender offers additional private cloud resources that can be used to store data on the most suitable, individually selected storage tiers at a different location. This significantly reduces storage costs and also mitigates the risk of data loss. The private cloud environment can be used as an online backup location or archive storage protected by Macquarie Telecom's Backup as a Service.

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IN-HOUSE DATA CENTRE — LAUNCH CLOUD EXTENDER — LAYER 2 — COLOCATION — MANAGED SERVERS — HYBRID CLOUD