



Virtual Data Centre (VDC)

Managed Services for Hybrid Cloud



How does the VDC work?



1. The customer, partner or consultant has **full self-service access** to build and configure the components of a data centre with compute, storage, network and supporting services.



2. The **automated platform** then takes the customers instructions and builds or makes changes to infrastructure and services based on a service catalogue and the request.



3. VDC then calculates a **usage bill** at the end of the month for the services consumed typically by the hour for core infrastructure.

Key Features of Virtual Data Centre

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Secure by design

ISO27001, 27017, 27018 certified with security at the heart of the platform including data encrypted at rest, immutable backups and DDoS protection.



Full Automation

React quickly to changing business requirements with full capability to deploy services and make changes.



Predictable Consumption Billing

Pay only for what you use and save costs when services are not in use and no micro-billing.



24x7 Support

We are here to help your team with our expertise and scale to help achieve your operational goals.



Geo-Resilient, UK data centres

Easily create Disaster Recovery to an alternative region, offsite backups or build fault tolerant architectures.



Ease of Migration

Powered by industry standard virtualisation to ensure low risk, hassle free onboarding.



Cost Effective

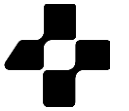
Benchmarked pricing lower than Public Cloud with free network services helping to drive down operating costs.

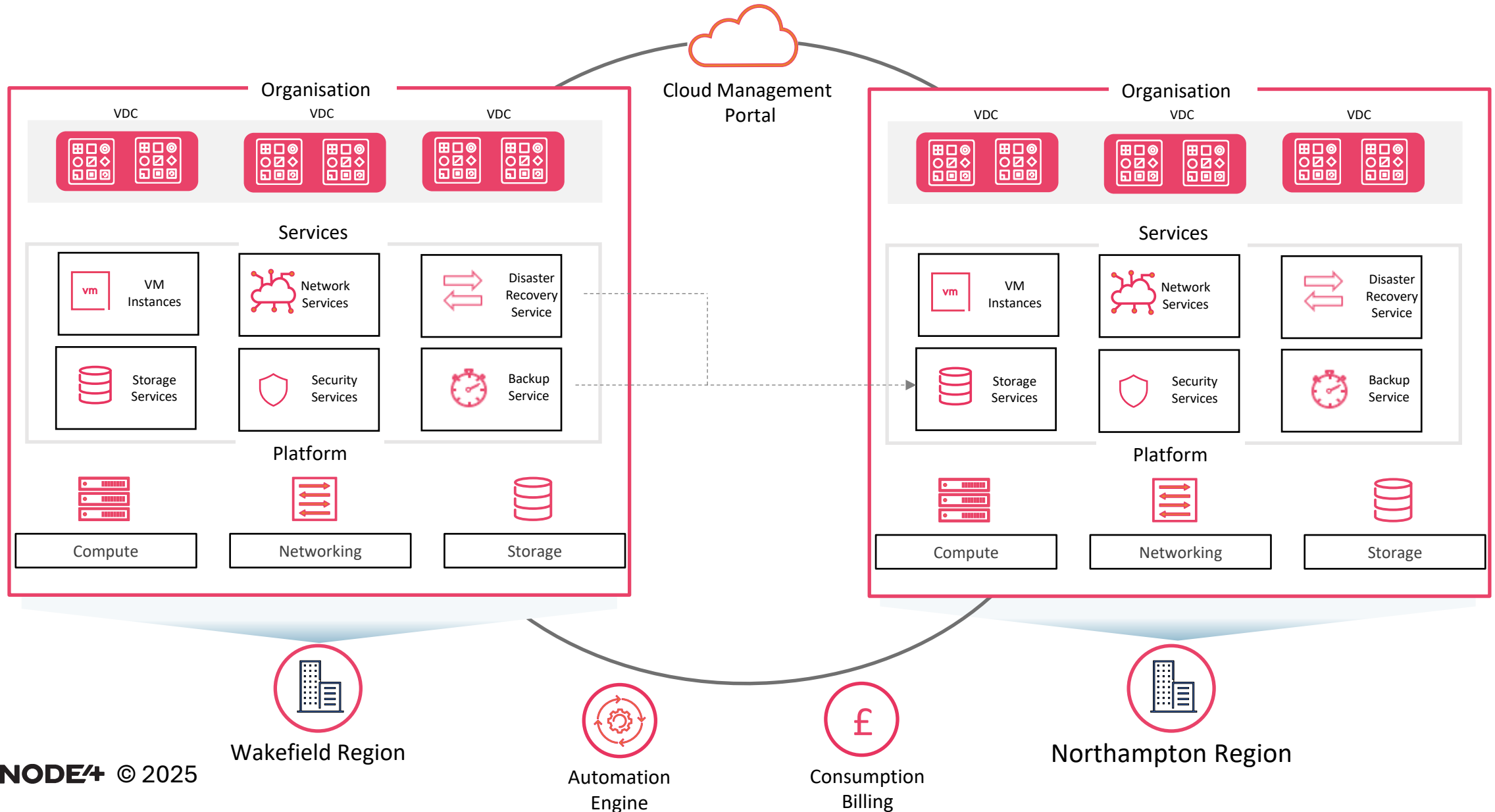


Performance Tuned

The VDC platform is built on the latest hardware and software technologies designed to handle high performance needs.

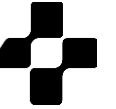
Platform Overview

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Core VDC Services

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COMPUTE

GP Series

General purpose virtual machines offer a combination of vCPUs, memory and storage to meet the requirements associated with most production workloads.

CO Series

Compute optimised virtual machines provide a higher vCPU-to-memory for compute intensive workloads such as batch processing, web server and analytics.

MO Series

Memory optimized virtual machines have a higher memory-to-vCPU ratio which makes them well suited for relational databases and in-memory applications.

CB Series

vCPU and memory balanced compute for applications and use cases that need a 1:1 ratio. For similar workloads as CO instances but cost savings can be made through RAM reduction.

Operating Systems

Microsoft Windows, Red Hat Enterprise Linux, Ubuntu & AlmaLinux

Storage

Ultra Storage: ideal for demanding database workloads.

Performance Storage: ideal for production workloads.

Capacity Storage: a low-cost offering for test and entry level production workloads

Backup Storage: Cost effective storage for backups.

Object Storage: Coming soon...

Networking

Internet Bandwidth & Intra-Region Transit: all free within acceptable use.

Edge Firewall: secure your perimeter with the in built stateful L4 firewall.

Load Balancing: high-availability service for applications.

S2S VPN: Site to Site VPN Gateway Service.

Services

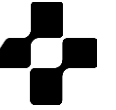
VDC Backup Service: backup and protect VMs and restore data in VDC (Immutable).

VDC Site Recovery: protect services with automated replication and recovery to a second location.

Managed Instances: Monitoring, Anti-Virus and Patch Management for VMs.

A closer look at backup security

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IMMUTABILITY

All backups are immutable as standard. Daily backups are immutable for 7 days as a minimum.

ENCRYPTION

All data is encrypted at rest to ensure backups remain securely stored.



GEOGRAPHIC REPLICATION

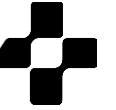
Backups are replicated offsite to the paired data centre.

SECURE ARCHITECTURE

All the backups infrastructure is hardened all operations conform to high, audited security standards.

A closer look at VDC Site Recovery

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EASY TO CONFIGURE



Not all workloads are equal. Create personalised recovery plans and assign RPO's of down to 15 minutes.

EASY TO TEST



The service has the ability to easily test recovery plans; which can also safely be done to an isolated test network.

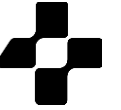
EASY TO MIGRATE



The DR service provides a simple and low risk way of migrating in workloads from external VMware environments.

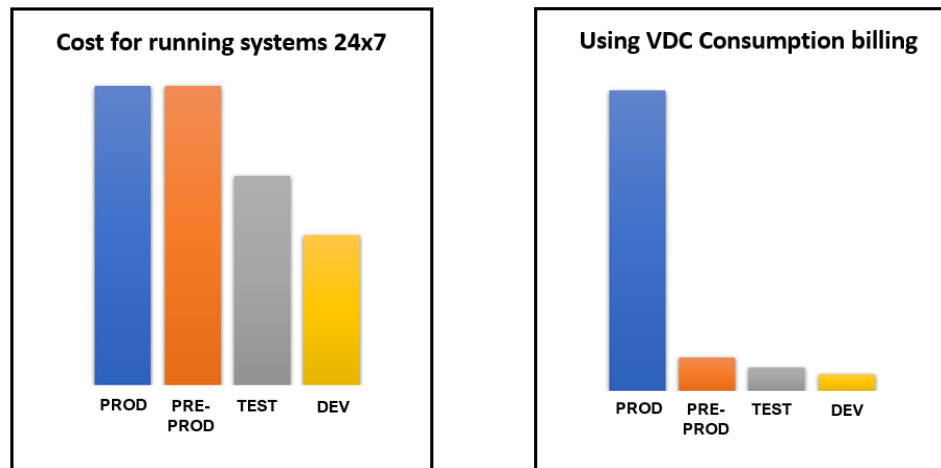
Saving money with consumption billing

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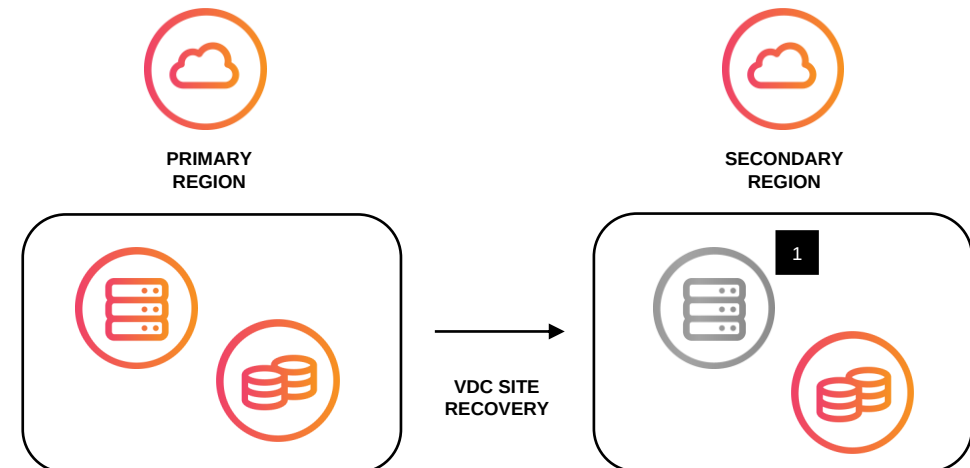
Non-Production Systems

The scenario below shows an organisation that was only using their Pre-Prod, Test and Dev environments for 80 hours per month, on average. By moving to a consumption model and turning off the resources when not in use, they would save 61% of their compute costs per month.



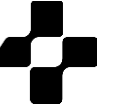
Disaster Recovery

Disaster Recovery in VDC can help organisations save considerable money. The VDC Site Recovery service provides an easy to configure DR service to a second UK region. Site Recovery then requires storage at the secondary site and the customer only pays for compute resources when the DR resources are invoked.



1 Compute costs are only charged when invoked

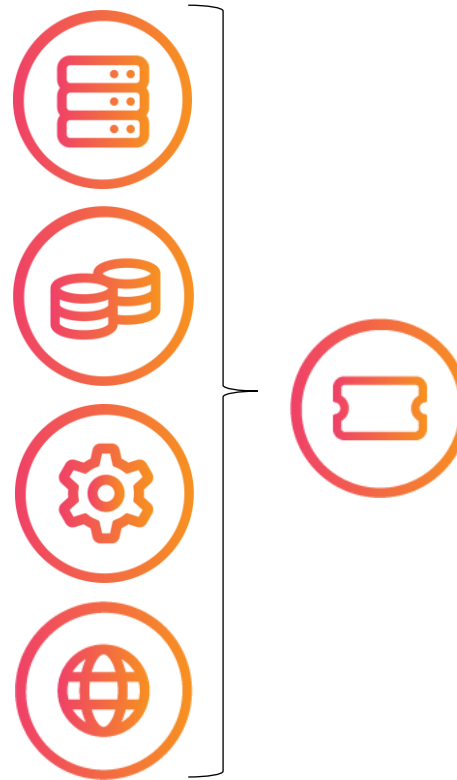
Flexible discount plans



Public Cloud Challenges

- Each reservation/discount is a single purchase that applies to a specific quantity and service type, e.g. a compute type.
- Organisations must manage many reservations with multiple expiry dates, discount levels and locked-in services. We have customers with 50+ reservations to manage.
- When reservations are no longer needed, there are limitations and potentially penalties.
- Enforced commitment to make a 1 or 3 year choice for each service.

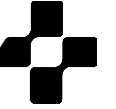
Virtual Data Centre approach



- **One discount plan** is applied to the customer account bill and isn't specific to individual service items.
- We only exclude 3rd party licensing, so the **discount applies to all services** including Compute, Storage, Networking, DR, Back Up and Managed Services.
- There is **only one renewal date** to manage.
- As it's not locked to specific services, **customers can completely change their services** over the term with no penalties.
- You have the **choice of a 1, 2 or 3 year plan**.

The Key Benefits

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SIMPLE PRICING MODEL

- Get the benefits of pay per use. **No complex, micro-billing** and hard to predict costs.
- **Easy to understand discount plans**, there is no need to manage and remember to apply reservations.
- A **finance friendly invoice** and monthly usage report.
- **No egress or network costs** to forecast.

AGILITY & FLEXIBILITY

- Easy access to a high **scalable IaaS platform** across two UK data centre locations.
- Stay in full control with the **self-service UI and APIs** to accelerate deployments and changes.
- Access to **pre-integrated services** such as back ups, disaster recovery and deployment images.
- **No contract**, pay per use.

PEACE OF MIND

- **Free up IT time** by reducing the need to focus on managing hardware and data centre technology.
- Node4 has 100% control and ownership of the solution, our **support teams are empowered to provide rapid and insightful support**.
- VDC provides a **99.95% availability SLA** per region
- **Complete transparency**; take a supervised tour of our data centres and meet our teams.

COST BENEFITS

- A flexible model based on **pay per use, by the hour**.
- **Free up “on-prem” space and costs** by moving to a virtual data centre.
- Use **consumption billing** to drastically reduce DR and non-production system operating costs.
- **Gain discounts** that can scale with usage.
- **Modernise operations** through DevOps and out-tasking to our managed service team

EASE OF MIGRATION

- A standardised VMware based platform to **accelerate migration projects with lower risks**.
- Work with our experienced team to provide **personalised migration support** to enjoy a frictionless move.
- We can help to lower the amount of change required by **supporting customer networking and custom requirements**.
- **No vendor lock in**. Easy to migrate workloads off-platform.

NODE4