

CLOUD COMPUTING FOR BEGINNERS NEW ZEALAND

THE TOPIC OF CLOUD COMPUTING FOR BEGINNERS NEW ZEALAND IS INCREASINGLY RELEVANT AS BUSINESSES AND INDIVIDUALS ACROSS THE NATION EMBRACE DIGITAL TRANSFORMATION. UNDERSTANDING WHAT CLOUD COMPUTING ENTAILS, ITS BENEFITS, AND HOW IT OPERATES IS CRUCIAL FOR HARNESSING ITS POWER EFFECTIVELY. THIS COMPREHENSIVE GUIDE IS DESIGNED TO DEMYSTIFY CLOUD COMPUTING FOR THOSE NEW TO THE CONCEPT IN NEW ZEALAND, COVERING ITS CORE PRINCIPLES, VARIOUS SERVICE MODELS, DEPLOYMENT OPTIONS, AND THE ADVANTAGES IT OFFERS TO LOCAL ORGANISATIONS. WE WILL EXPLORE HOW CLOUD TECHNOLOGY CAN ENHANCE EFFICIENCY, SCALABILITY, AND COST-EFFECTIVENESS, PROVIDING A FOUNDATIONAL KNOWLEDGE BASE FOR MAKING INFORMED DECISIONS.

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UNDERSTANDING CLOUD COMPUTING FUNDAMENTALS

CLOUD COMPUTING IS ESSENTIALLY THE DELIVERY OF COMPUTING SERVICES—including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet (“the cloud”). INSTEAD OF OWNING AND MAINTAINING PHYSICAL DATA CENTRES AND SERVERS, BUSINESSES CAN ACCESS TECHNOLOGY SERVICES ON AN AS-NEEDED BASIS FROM A CLOUD PROVIDER. THIS ON-DEMAND SELF-SERVICE MODEL FUNDAMENTALLY CHANGES HOW IT RESOURCES ARE PROVISIONED AND MANAGED, OFFERING UNPRECEDENTED FLEXIBILITY AND AGILITY.

AT ITS HEART, CLOUD COMPUTING IS ABOUT ABSTRACTING THE COMPLEXITY OF UNDERLYING HARDWARE AND INFRASTRUCTURE. USERS INTERACT WITH SERVICES THROUGH WEB INTERFACES OR APIs, WITHOUT NEEDING TO KNOW OR MANAGE THE PHYSICAL LOCATIONS OR SPECIFICATIONS OF THE SERVERS. THIS SHIFT FROM CAPITAL EXPENDITURE ON HARDWARE TO OPERATIONAL EXPENDITURE ON SERVICES IS A SIGNIFICANT FINANCIAL ADVANTAGE FOR MANY ORGANISATIONS. FOR NEW ZEALAND BUSINESSES, THIS CAN MEAN REDUCED UPFRONT INVESTMENT AND MORE PREDICTABLE ONGOING COSTS, ALLOWING FOR BETTER BUDGET MANAGEMENT AND ALLOCATION TOWARDS CORE BUSINESS ACTIVITIES.

WHAT IS A CLOUD PROVIDER?

A CLOUD PROVIDER IS A COMPANY THAT OFFERS CLOUD COMPUTING SERVICES. THESE SERVICES CAN RANGE FROM SIMPLE DATA STORAGE TO COMPLEX APPLICATION HOSTING AND SOPHISTICATED ANALYTICS PLATFORMS. MAJOR GLOBAL CLOUD PROVIDERS HAVE DATA CENTRES LOCATED WORLDWIDE, AND MANY NOW HAVE A SIGNIFICANT PRESENCE OR OFFER SERVICES TAILORED TO THE ASIA-PACIFIC REGION, INCLUDING OPTIONS ACCESSIBLE TO NEW ZEALAND USERS. EXAMPLES OF SUCH PROVIDERS INCLUDE AMAZON WEB SERVICES (AWS), MICROSOFT AZURE, AND GOOGLE CLOUD PLATFORM (GCP), EACH OFFERING A VAST ARRAY OF SERVICES TO MEET DIVERSE BUSINESS NEEDS.

HOW DOES CLOUD COMPUTING WORK?

CLOUD COMPUTING WORKS BY POOLING COMPUTING RESOURCES FROM MULTIPLE SOURCES AND MAKING THEM AVAILABLE TO USERS OVER A NETWORK, TYPICALLY THE INTERNET. THIS IS ACHIEVED THROUGH VIRTUALIZATION TECHNOLOGY, WHICH ALLOWS A SINGLE PHYSICAL SERVER TO BE PARTITIONED INTO MULTIPLE VIRTUAL SERVERS. EACH VIRTUAL SERVER CAN RUN ITS OWN OPERATING SYSTEM AND APPLICATIONS, EFFECTIVELY ACTING AS AN INDEPENDENT MACHINE. THIS RESOURCE POOLING ALLOWS FOR EFFICIENT UTILISATION OF HARDWARE AND PROVIDES THE SCALABILITY THAT IS A HALLMARK OF CLOUD SERVICES.

KEY CLOUD COMPUTING SERVICE MODELS

CLOUD COMPUTING IS TYPICALLY OFFERED IN THREE PRIMARY SERVICE MODELS, EACH PROVIDING DIFFERENT LEVELS OF CONTROL, FLEXIBILITY, AND MANAGEMENT RESPONSIBILITY. UNDERSTANDING THESE MODELS IS FUNDAMENTAL FOR BEGINNERS IN NEW ZEALAND TO IDENTIFY THE BEST FIT FOR THEIR SPECIFIC REQUIREMENTS, WHETHER FOR PERSONAL USE, A SMALL STARTUP, OR A LARGE ENTERPRISE.

INFRASTRUCTURE AS A SERVICE (IaaS)

INFRASTRUCTURE AS A SERVICE (IaaS) PROVIDES THE FUNDAMENTAL BUILDING BLOCKS FOR CLOUD IT. THIS INCLUDES ACCESS TO COMPUTING RESOURCES SUCH AS VIRTUAL MACHINES, STORAGE, AND NETWORKING. WITH IaaS, YOU RENT IT INFRASTRUCTURE FROM A CLOUD PROVIDER ON A PAY-AS-YOU-GO BASIS. THIS MODEL OFFERS THE HIGHEST LEVEL OF FLEXIBILITY AND MANAGEMENT CONTROL OVER YOUR IT RESOURCES, SIMILAR TO WHAT YOU WOULD HAVE WITH AN ON-PREMISES DATA CENTRE. IaaS IS IDEAL FOR BUSINESSES THAT WANT TO MIGRATE THEIR EXISTING APPLICATIONS TO THE CLOUD OR DEVELOP NEW ONES WITHOUT THE BURDEN OF MANAGING THE UNDERLYING INFRASTRUCTURE.

PLATFORM AS A SERVICE (PaaS)

PLATFORM AS A SERVICE (PaaS) PROVIDES A PLATFORM ALLOWING CUSTOMERS TO DEVELOP, RUN, AND MANAGE APPLICATIONS WITHOUT THE COMPLEXITY OF BUILDING AND MAINTAINING THE INFRASTRUCTURE TYPICALLY ASSOCIATED WITH DEVELOPING AND LAUNCHING AN APP. PaaS INCLUDES THE INFRASTRUCTURE (SERVERS, STORAGE, NETWORKING) AND OFTEN MIDDLEWARE, DEVELOPMENT TOOLS, BUSINESS INTELLIGENCE SERVICES, DATABASE MANAGEMENT SYSTEMS, AND MORE. DEVELOPERS CAN FOCUS ON WRITING CODE AND DEPLOYING APPLICATIONS, LEAVING THE MANAGEMENT OF OPERATING SYSTEMS, PATCHING, AND INFRASTRUCTURE TO THE CLOUD PROVIDER. THIS MODEL IS WELL-SUITED FOR ORGANISATIONS FOCUSED ON APPLICATION DEVELOPMENT AND INNOVATION.

SOFTWARE AS A SERVICE (SaaS)

SOFTWARE AS A SERVICE (SaaS) PROVIDES A COMPLETED PRODUCT THAT IS RUN AND MANAGED BY THE SERVICE PROVIDER. IN A SaaS APPLICATION, THE CLOUD PROVIDER HOSTS THE APPLICATION AND UNDERLYING INFRASTRUCTURE AND MANAGES ANY MAINTENANCE, LIKE SOFTWARE UPDATES AND SECURITY PATCHING. USERS CONNECT TO THE APPLICATION OVER THE INTERNET, TYPICALLY THROUGH A WEB BROWSER OR A MOBILE APP. COMMON EXAMPLES OF SaaS INCLUDE EMAIL SERVICES (LIKE GMAIL OR OUTLOOK 365), CUSTOMER RELATIONSHIP MANAGEMENT (CRM) SOFTWARE, AND COLLABORATIVE TOOLS. SaaS IS THE MOST COMMON MODEL FOR END-USERS AND OFFERS A SIMPLE, SUBSCRIPTION-BASED WAY TO ACCESS SOFTWARE.

CLOUD DEPLOYMENT OPTIONS FOR NEW ZEALAND BUSINESSES

CHOOSING THE RIGHT DEPLOYMENT MODEL IS CRUCIAL FOR ANY NEW ZEALAND ORGANISATION LOOKING TO LEVERAGE THE CLOUD. THE DEPLOYMENT OPTION DICTATES WHERE THE CLOUD INFRASTRUCTURE RESIDES AND WHO MANAGES IT, IMPACTING SECURITY, CONTROL, AND COST. EACH OPTION HAS DISTINCT ADVANTAGES AND CONSIDERATIONS FOR BUSINESSES OPERATING IN NEW ZEALAND.

PUBLIC CLOUD

THE PUBLIC CLOUD IS OWNED AND OPERATED BY THIRD-PARTY CLOUD SERVICE PROVIDERS, DELIVERING COMPUTING RESOURCES

LIKE SERVERS AND STORAGE OVER THE INTERNET. THESE PROVIDERS MANAGE THE HARDWARE AND SOFTWARE, OFFERING SERVICES ON DEMAND TO MULTIPLE ORGANISATIONS. FOR NEW ZEALAND BUSINESSES, A PUBLIC CLOUD OFFERS COST-EFFECTIVENESS, SCALABILITY, AND A WIDE RANGE OF SERVICES WITHOUT THE NEED FOR SIGNIFICANT UPFRONT INVESTMENT IN INFRASTRUCTURE. IT'S IDEAL FOR STARTUPS, BUSINESSES WITH FLUCTUATING WORKLOADS, OR THOSE SEEKING TO RAPIDLY DEPLOY APPLICATIONS.

PRIVATE CLOUD

A PRIVATE CLOUD IS A CLOUD COMPUTING ENVIRONMENT THAT IS USED EXCLUSIVELY BY A SINGLE BUSINESS OR ORGANISATION. IT CAN BE LOCATED ON-PREMISES IN THE ORGANISATION'S OWN DATA CENTRE OR HOSTED BY A THIRD-PARTY PROVIDER. A PRIVATE CLOUD OFFERS GREATER CONTROL OVER DATA AND SECURITY, MAKING IT SUITABLE FOR ORGANISATIONS WITH STRICT REGULATORY COMPLIANCE REQUIREMENTS OR SENSITIVE DATA. WHILE IT OFFERS ENHANCED CUSTOMISATION AND SECURITY, IT GENERALLY REQUIRES A LARGER INVESTMENT AND MORE MANAGEMENT OVERHEAD COMPARED TO A PUBLIC CLOUD.

HYBRID CLOUD

A HYBRID CLOUD IS A COMPUTING ENVIRONMENT THAT COMBINES ELEMENTS OF BOTH PUBLIC AND PRIVATE CLOUDS, ALLOWING DATA AND APPLICATIONS TO BE SHARED BETWEEN THEM. THIS MODEL PROVIDES ORGANISATIONS WITH GREATER FLEXIBILITY AND MORE DEPLOYMENT OPTIONS. FOR INSTANCE, A NEW ZEALAND COMPANY MIGHT USE A PRIVATE CLOUD FOR ITS SENSITIVE DATA AND CORE BUSINESS APPLICATIONS WHILE USING A PUBLIC CLOUD FOR LESS SENSITIVE WORKLOADS, SUCH AS WEBSITE HOSTING OR DEVELOPMENT AND TESTING ENVIRONMENTS. THIS APPROACH ALLOWS BUSINESSES TO TAKE ADVANTAGE OF THE SCALABILITY AND COST-EFFECTIVENESS OF THE PUBLIC CLOUD WHILE MAINTAINING THE SECURITY AND CONTROL OF A PRIVATE CLOUD FOR CRITICAL OPERATIONS.

BENEFITS OF CLOUD COMPUTING FOR NEW ZEALAND

CLOUD COMPUTING OFFERS A MULTITUDE OF ADVANTAGES FOR BUSINESSES OF ALL SIZES IN NEW ZEALAND, FROM ENHANCED OPERATIONAL EFFICIENCY TO SIGNIFICANT COST SAVINGS. EMBRACING CLOUD TECHNOLOGIES CAN PROVIDE A COMPETITIVE EDGE IN TODAY'S FAST-PACED DIGITAL LANDSCAPE.

SCALABILITY AND FLEXIBILITY

ONE OF THE MOST SIGNIFICANT BENEFITS OF CLOUD COMPUTING IS ITS INHERENT SCALABILITY. BUSINESSES CAN EASILY INCREASE OR DECREASE THEIR COMPUTING RESOURCES AS NEEDED, RESPONDING QUICKLY TO CHANGES IN DEMAND. THIS FLEXIBILITY IS PARTICULARLY VALUABLE FOR NEW ZEALAND BUSINESSES EXPERIENCING SEASONAL PEAKS OR RAPID GROWTH, ALLOWING THEM TO AVOID OVER-PROVISIONING HARDWARE AND INCURRING UNNECESSARY COSTS. WHETHER IT'S MORE STORAGE, PROCESSING POWER, OR BANDWIDTH, THE CLOUD CAN ADAPT INSTANTLY.

COST SAVINGS

CLOUD COMPUTING CAN LEAD TO SUBSTANTIAL COST SAVINGS BY SHIFTING IT SPENDING FROM CAPITAL EXPENDITURE (CapEx) TO OPERATIONAL EXPENDITURE (OpEx). ORGANISATIONS NO LONGER NEED TO INVEST HEAVILY IN PURCHASING AND MAINTAINING PHYSICAL SERVERS AND DATA CENTRE INFRASTRUCTURE. INSTEAD, THEY PAY FOR THE RESOURCES THEY CONSUME ON A SUBSCRIPTION OR PAY-AS-YOU-GO BASIS. THIS MODEL ALLOWS FOR BETTER BUDGETING AND CASH FLOW MANAGEMENT, FREEING UP CAPITAL FOR INNOVATION AND BUSINESS DEVELOPMENT. FOR NEW ZEALAND BUSINESSES, THIS CAN MEAN MORE COMPETITIVE PRICING AND REDUCED OVERHEADS.

Enhanced Accessibility and Collaboration

Cloud-based services can be accessed from anywhere with an internet connection, empowering employees in New Zealand to work remotely or from different locations. This enhances flexibility and productivity. Furthermore, cloud platforms facilitate seamless collaboration among team members by providing shared access to documents, applications, and project management tools. This interconnectedness fosters better teamwork and streamlines workflows, regardless of geographical dispersion.

Improved Security and Reliability

Reputable cloud providers invest heavily in state-of-the-art security measures and employ expert security professionals to protect their infrastructure and data. While businesses are still responsible for securing their data within the cloud, providers offer robust security tools and compliance certifications. Moreover, cloud services are designed for high availability and reliability, with built-in redundancy and disaster recovery capabilities, minimising the risk of downtime and data loss. This level of security and uptime is often difficult and expensive for individual New Zealand businesses to achieve independently.

Getting Started with Cloud Computing in New Zealand

For businesses in New Zealand looking to adopt cloud computing, a strategic approach is key. It involves understanding current needs, evaluating different providers, and planning a phased migration to minimise disruption and maximise benefits.

Assess Your Business Needs

Before diving into cloud solutions, it's crucial to conduct a thorough assessment of your current IT infrastructure, applications, and business processes. Identify which workloads are suitable for migration to the cloud, considering factors like data sensitivity, application dependencies, and performance requirements. Understanding your specific needs will help you select the most appropriate cloud service models (IaaS, PaaS, SaaS) and deployment options (public, private, hybrid) for your New Zealand operations.

Choose the Right Cloud Provider

The New Zealand market offers access to global cloud providers as well as potentially local or regional specialists. Research providers based on their service offerings, pricing models, security certifications, customer support, and geographic presence. Consider factors relevant to New Zealand, such as data residency options and compliance with local regulations. Requesting proposals and speaking with sales representatives can provide valuable insights into which provider best aligns with your business goals and technical requirements.

Develop a Cloud Migration Strategy

A well-defined migration strategy is essential for a smooth transition. This involves planning the order of migration, considering potential dependencies between applications, and developing rollback plans. Start with less critical workloads to gain experience and refine your processes before migrating more complex or essential systems. Training your IT staff on cloud technologies and best practices is also a vital component of a

THE FUTURE OF CLOUD COMPUTING IN NEW ZEALAND

THE TRAJECTORY OF CLOUD COMPUTING IN NEW ZEALAND POINTS TOWARDS CONTINUED GROWTH AND INNOVATION. AS BUSINESSES BECOME MORE DIGITALLY MATURE, THE ADOPTION OF ADVANCED CLOUD SERVICES IS EXPECTED TO ACCELERATE, DRIVING FURTHER TRANSFORMATION ACROSS VARIOUS SECTORS. EMERGING TECHNOLOGIES LIKE ARTIFICIAL INTELLIGENCE (AI), MACHINE LEARNING (ML), AND THE INTERNET OF THINGS (IoT) ARE INCREASINGLY BEING POWERED BY CLOUD INFRASTRUCTURE, ENABLING NEW CAPABILITIES AND BUSINESS MODELS.

THE INCREASING DEMAND FOR DATA ANALYTICS AND PROCESSING POWER WILL LIKELY SEE FURTHER INVESTMENT IN CLOUD INFRASTRUCTURE AND SERVICES WITHIN NEW ZEALAND AND THE WIDER ASIA-PACIFIC REGION. AS CYBERSECURITY THREATS EVOLVE, CLOUD PROVIDERS WILL CONTINUE TO ENHANCE THEIR SECURITY OFFERINGS, PROVIDING BUSINESSES WITH MORE ROBUST PROTECTION. FURTHERMORE, THE PUSH FOR SUSTAINABILITY WILL ENCOURAGE THE USE OF ENERGY-EFFICIENT CLOUD DATA CENTRES. FOR NEW ZEALAND, THIS MEANS STAYING ABREAST OF THESE ADVANCEMENTS WILL BE KEY TO MAINTAINING COMPETITIVENESS AND FOSTERING INNOVATION IN THE YEARS TO COME.

FAQ

Q: WHAT ARE THE MAIN ADVANTAGES OF CLOUD COMPUTING FOR SMALL BUSINESSES IN NEW ZEALAND?

A: SMALL BUSINESSES IN NEW ZEALAND BENEFIT GREATLY FROM CLOUD COMPUTING THROUGH COST SAVINGS BY AVOIDING LARGE UPFRONT HARDWARE INVESTMENTS, INCREASED SCALABILITY TO ADAPT TO BUSINESS GROWTH, ENHANCED ACCESSIBILITY FOR REMOTE WORK, AND ROBUST SECURITY MEASURES OFTEN SURPASSING WHAT THEY COULD IMPLEMENT INDEPENDENTLY. IT ALSO ALLOWS THEM TO LEVERAGE SOPHISTICATED SOFTWARE AND TOOLS ON A SUBSCRIPTION BASIS, LEVELLING THE PLAYING FIELD WITH LARGER COMPETITORS.

Q: IS MY DATA SAFE IN THE CLOUD WHEN USING SERVICES IN NEW ZEALAND?

A: CLOUD PROVIDERS INVEST HEAVILY IN SECURITY INFRASTRUCTURE AND EMPLOY EXPERT TEAMS TO PROTECT DATA. REPUTABLE PROVIDERS ADHERE TO INTERNATIONAL SECURITY STANDARDS AND OFFER FEATURES LIKE ENCRYPTION, ACCESS CONTROLS, AND REGULAR SECURITY AUDITS. FOR NEW ZEALAND BUSINESSES, IT'S CRUCIAL TO UNDERSTAND THE SHARED RESPONSIBILITY MODEL OF CLOUD SECURITY AND CHOOSE PROVIDERS WITH STRONG COMPLIANCE CERTIFICATIONS RELEVANT TO THEIR INDUSTRY AND DATA PRIVACY REGULATIONS.

Q: HOW CAN I ESTIMATE THE COST OF CLOUD COMPUTING FOR MY NEW ZEALAND BUSINESS?

A: MOST CLOUD PROVIDERS OFFER ONLINE PRICING CALCULATORS THAT ALLOW YOU TO ESTIMATE COSTS BASED ON THE SERVICES YOU INTEND TO USE, SUCH AS VIRTUAL MACHINE SIZE, STORAGE CAPACITY, AND DATA TRANSFER VOLUMES. MANY ALSO OFFER FREE TIERS FOR INITIAL TESTING. IT'S ADVISABLE TO START WITH A SMALL-SCALE IMPLEMENTATION AND CLOSELY MONITOR USAGE AND COSTS BEFORE COMMITTING TO LARGER DEPLOYMENTS. CONSIDER ENGAGING WITH CLOUD CONSULTANTS IN NEW ZEALAND FOR TAILORED COST-BENEFIT ANALYSES.

Q: WHAT IS THE DIFFERENCE BETWEEN IaaS, PaaS, AND SaaS FOR A BEGINNER IN NEW

ZEALAND?

A: FOR BEGINNERS IN NEW ZEALAND, THE SIMPLEST WAY TO UNDERSTAND THE DIFFERENCE IS BY ANALOGY:

- **IAAS (INFRASTRUCTURE AS A SERVICE):** LIKE RENTING AN EMPTY PLOT OF LAND WHERE YOU BUILD YOUR OWN HOUSE, MANAGING EVERYTHING FROM THE FOUNDATION TO THE ROOF. YOU GET RAW COMPUTING POWER, STORAGE, AND NETWORKING.
- **PAAS (PLATFORM AS A SERVICE):** LIKE RENTING A PRE-BUILT FOUNDATION AND FRAMEWORK FOR YOUR HOUSE. THE CLOUD PROVIDER MANAGES THE OPERATING SYSTEM AND MIDDLEWARE, ALLOWING YOU TO FOCUS ON BUILDING THE HOUSE (YOUR APPLICATION).
- **SAAS (SOFTWARE AS A SERVICE):** LIKE RENTING A FULLY FURNISHED APARTMENT. YOU JUST MOVE IN AND USE THE SERVICES PROVIDED, SUCH AS EMAIL OR CRM SOFTWARE, WITHOUT WORRYING ABOUT CONSTRUCTION OR MAINTENANCE.

Q: DO I NEED SPECIALISED IT SKILLS TO USE CLOUD COMPUTING IN NEW ZEALAND?

A: WHILE SOME CLOUD SERVICES, PARTICULARLY SAAS, REQUIRE MINIMAL TECHNICAL EXPERTISE, OTHERS LIKE IAAS AND PAAS CAN BENEFIT FROM IT PROFESSIONALS WITH CLOUD-SPECIFIC SKILLS. HOWEVER, MANY CLOUD PROVIDERS OFFER USER-FRIENDLY INTERFACES AND COMPREHENSIVE DOCUMENTATION, AND NUMEROUS TRAINING RESOURCES ARE AVAILABLE IN NEW ZEALAND TO UPSKILL EXISTING IT STAFF OR HIRE NEW TALENT WITH CLOUD EXPERTISE.

Q: WHAT ARE THE ENVIRONMENTAL CONSIDERATIONS FOR CLOUD COMPUTING IN NEW ZEALAND?

A: CLOUD PROVIDERS ARE INCREASINGLY FOCUSED ON SUSTAINABILITY, AIMING TO POWER THEIR DATA CENTRES WITH RENEWABLE ENERGY SOURCES. WHEN CHOOSING A PROVIDER, NEW ZEALAND BUSINESSES CAN INQUIRE ABOUT THEIR ENERGY EFFICIENCY INITIATIVES AND COMMITMENT TO RENEWABLE ENERGY. USING CLOUD SERVICES CAN ALSO BE MORE ENERGY-EFFICIENT THAN MAINTAINING ON-PREMISES DATA CENTRES, ESPECIALLY FOR SMALLER ORGANISATIONS, AS CLOUD PROVIDERS CAN ACHIEVE ECONOMIES OF SCALE IN POWER CONSUMPTION.

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