

FACTSHEET**PLATFORM AS A SERVICE (PaaS):**

Develop, run and manage applications without the associated cost and complexity of maintaining the underlying infrastructure

SUMMARY

Platform as a Service (PaaS) is a cloud infrastructure encompassing compute, storage and network up to and including the operating system (OS). Delivered as a managed service, The Bunker is responsible for managing an agreed set of applications, while you retain control over the deployed applications and the configuration settings for the application-hosting environment (if required).

Available on dedicated or cloud infrastructure, our PaaS solutions allow you to benefit from bespoke environments built to your specific requirements. We provide both Microsoft and Open Source platforms tailored to work perfectly in tune with your in-house environment, delivered with the unequalled levels of security and availability that come as standard with The Bunker.

KEY FEATURES

BESPOKE ENVIRONMENT TAILORED TO YOUR PROGRAMMATIC CODE

The Bunker ensures seamless portability between our PaaS and your in-house environment for applications developed internally or acquired.

OPTIMISED DEPLOYMENT

We manage all languages, libraries, services and tools, ensuring each is fine-tuned to the needs of the application deployed.

PAAS ON YOUR TERMS

Choose from dedicated or cloud infrastructure, and Microsoft or Open Source environments, all delivered under the utility billing model.

SWITCH INSTANTLY FROM TEST AND DEVELOPMENT TO PRODUCTION

Go live with your application on PaaS and continue with it as a production environment.

INHERENTLY SECURE, HIGHLY AVAILABLE

Built on IBM and Egenera software technologies and managed infrastructure housed in our fully-owned UK data centres with partitioned redundant power delivering 100% uptime.

KEY BENEFITS

RAPID RESPONSE, SUPPORTING YOU AT SCALE

The Bunker makes it quick and easy for ISVs, in-house IT teams and e-commerce providers to spin up PaaS environments, providing a flexible, secure resource that scales when needed.

ACHIEVE GREATER AGILITY

PaaS enables agile code development with the flexibility, scalability and cost efficiency that utility computing brings.

SEAMLESS INTEGRATION BETWEEN TECHNICAL RESOURCES

Our specialists work closely with your development team to create an environment that's available instantly when you need it and works the way you want.

A PARTNER YOU CAN TRUST

We are ISO 27001 accredited, IGSoc approved, fully compliant with PCI DSS and ITIL v3, with all processes Security Council controlled.

PEACE OF MIND

Working with The Bunker gives you the confidence that your PaaS environment is secure and fully compliant, with data sovereignty assured.

SPIN UP DEDICATED ENVIRONMENTS OPTIMISED FOR YOUR APPLICATIONS IN AN INSTANT

The Bunker's PaaS is based on hardware, storage and network infrastructure housed within our highly secure and high availability UK-based facilities. PaaS allows you to deploy applications rapidly onto environments built and optimised to your requirements.

We create a service catalogue ready-made for you, with multiple templates accommodating the specific versions of the libraries, applications, servers and services required. Automated orchestration and delivery of these resources ensures fast time to market.

THE DIFFERENCE BETWEEN PRIVATE PAAS AND COMMODITY IAAS/PAAS

With many cloud service providers (CSPs) claiming additional features that go beyond the traditional capabilities associated with Infrastructure as a Service (IaaS), it is essential to recognise the technical and operational nuances that set managed or private PaaS apart.

As a specialist managed service provider (MSP), The Bunker delivers PaaS on our dedicated, highly secure and high availability cloud infrastructure—including network, servers, operating systems and storage—together with a set of frequently used applications. Commodity PaaS is based on shared resources (multi-tenanted) often across multiple sites and potentially multiple countries, and is delivered without any form of management or monitoring. The latter remains the responsibility of the consumer.

A CONSULTATIVE ENGAGEMENT

Creating a PaaS environment should be approached as a consultative engagement. The Bunker's specialists are always on hand to work in close collaboration with your in-house teams to create an environment that's available instantly when you need it and works the way you want. The Bunker also runs a 'Technical Champion' programme, providing qualifying customers with the option to nominate a senior member of our technical team as their lead contact.

Our Technical Champions hold regular conversations with our customers' technical teams to explore opportunities to enhance and maximise on their investment in PaaS based on first-hand observations concerning the evolution of their specific platform, as well as learnings taken from other implementations and wider technology developments.

COMPARING THE USE CASE SCENARIOS

Under the commodity IaaS model, CSPs deliver compute, network, and storage (potentially including a standard operating system). Buying a service in this way enables the consumer to reduce their capital expenditure (CAPEX) on infrastructure, but means they do not benefit from any form of management or monitoring of that infrastructure and associated data centre(s).

Under the PaaS model however, consumers not only reduce CAPEX, but remove the headache of managing the infrastructure altogether—reducing their operational expenditure (OPEX) and allowing their technical resources to focus on adding value to their core business.

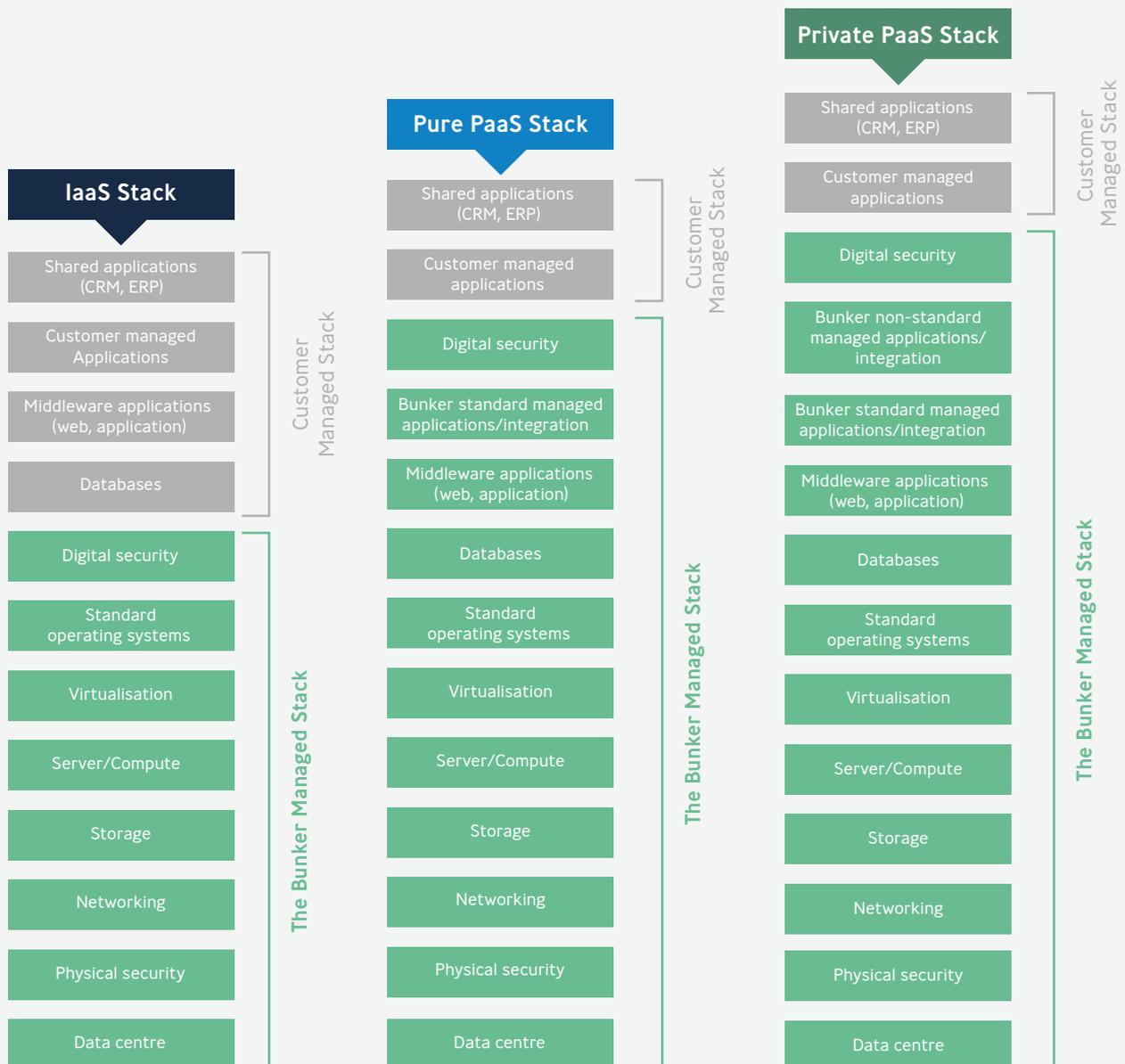
CHOOSE FROM PAAS OR PRIVATE PAAS

We offer PaaS or private PaaS options. The latter is a highly bespoke and a highly sophisticated solution aimed primarily at customers with open source requirements – although we can deliver a private PaaS incorporating a Microsoft environment for e-commerce providers if required. The key difference between PaaS and private PaaS lies in the resources falling within the customer-managed stack. Both solutions can be replicated across The Bunker's two sites with clustered databases, automatic failover and full orchestration.

YOUR MANAGED REQUIREMENT

The Bunker is adept at managing shared applications such as CRM and ERP, as well as customer's in-house applications. This will be agreed during the solution design and specification. Likewise, we can recommend on whether the solution can include multi-tenanted private cloud infrastructure components, or whether the ability to have it delivered from a multi-tenanted environment may not exist due to a specific requirement. In the case of the latter, private PaaS will be specified.

The key difference between The Bunker's PaaS offerings lies in the resources that fall within the customer-managed stack and specifically, the middleware that sits between the application/web layer and the database. Middleware might include Microsoft Exchange, SQL, or the database application server or web server. Customer-managed options are illustrated in the diagram below:



THE BUNKER IS SERVICE LED, COMPLIANT AND SECURE BY DESIGN

- Systems are housed in The Bunker's fully-owned dual military grade data centres operating in Ash, Kent and Newbury, Berkshire
- The Bunker is ISO 27001 accredited, IGSOC approved, and PCI DSS and ITIL 3 compliant
- We provide 100% uptime with auto-failover to secondary sites
- Our facilities are staffed 24/7/365 by fully vetted security, technical and network experts
- Physical security – including 3m thick reinforced concrete walls, solid steel doors, CCTV system with 24-hour video recording, visual verification of all persons entering the data floors, no unescorted access, electromagnetic pulse (EMP) protection, Tempest RFI intrusion protection, shared or dedicated partitioned areas, redundant power, cooling and carrier neutral connectivity
- Fully redundant, multi-homed, 10 gigabit network between data centres and to metropolitan PoPs

YOUR IT SERVICE PARTNER

- We offer a full range of flexible data centre services
- The Bunker specialists are on-hand to safely migrate Microsoft and open source systems
- Data assessment and migration to our cloud storage platform in a secure, risk-free deployment
- Complete documentation for migration and service projects; all project teams are PRINCE2 qualified
- Built-in support for service deployment and migration on a customer-by-customer basis
- On-site technicians available 24/7/365
- Sophisticated ITIL-based monitoring and management from our 24/7/365 onsite service desk, with efficient ticketing for responsive change requests

THE BUNKER PROTOCOL

The Bunker Protocol™ is an all-encompassing methodology that secures against risk and ensures the most secure IT delivery in the UK.

The Bunker Protocol™ incorporates physical, human and digital security capability and processes, and wraps them with a governance and standards layer that ensures that client data and systems are continually secure against threats to confidentiality, integrity and availability.

THIS IS ULTRA SECURE

Physical - Military grade data centres.

Human - All employees are fully background checked and our culture starts and ends with security.

Digital - We build and integrate systems in-house, ultra secure, from the source code up.