and simplicity by placing their physical servers in a UK-owned and located datacentre, on a co-location basis. This is reflected in the 64% of respondents who believe that in the current climate, the assurance of colocation and flexibility of cloud infrastructure strikes a good balance.

We also have to consider the European Commission’s recently published Free Flow of Data Initiative (FFDI) Communications proposal. Until this was published, the position of the European Commission was that member states (with the exception of certain specific classes of data) need not require data to be located within nation state boundaries – by law. Companies would have the right to choose where to locate their data within the EU. To add to the confusion, the Commission is also proposing to introduce new legal concepts and policy measures targeted at business-to-business transactions.

The only silver lining to this is that these proposals are still at the consultation phase and there may be opportunities for trade associations such as TechUK to push for reform.

UK market

So where does this leave software, cloud and hosting companies that want to enter the UK market over the next couple of years? Until very recently, data sovereignty has been a bit of a misnomer in the US and Europe as we’ve all become used to storing and transferring private citizen data across borders without much fuss. The only certainty emerging from all this uncertainty is that if you are looking to expand into the UK market, the safest long-term bet is to put your servers and data into UK-based datacentres. By doing so, you will automatically be aligning the data security needs of your UK clients with current and future UK data protection legislation – whatever that may be.

The UK is also likely to adhere to the very strict data privacy rules it (ironically) helped craft in the upcoming GDPR. If the datacentre or hosting provider happens to be UK-owned, even better, as it won’t be subject to outside meddling from US agencies, as Microsoft has found out with some of its datacentres based in Ireland. Taking a home-grown approach would certainly insulate SMEs from the Brexit negotiations’ changing winds. This awareness is starting to dawn. Almost one third of companies using an international public cloud for company data intend to stop doing so in two years’ time, following Brexit. Meanwhile, the proportion of companies using a UK public cloud for company data is expected to increase by almost a third in two years’ time, in the wake of the UK’s exit from the European Union.

While the wholesale movement of company data would be premature at this stage, the thinking certainly needs to be done over the next 12 months, in terms of the connotations of a business’s current cloud mix and the ins and outs of transitioning to a UK-based datacentre.

The sovereignty of data will only be one small piece of the jigsaw but it’s an important one. In the digital era, data is a company’s crown jewels and the way businesses treat and protect their data will govern their reputations.

About the author

Jack Bedell-Pearce is managing director of 4D. From university he joined Accenture, where he worked on technical projects for clients including Centrica (British Gas), BT and BOC Edwards. He started his own consultancy company working with local government and NHS organisations, before selling his stake to join 4D in 2007.

References


What is intellectual property and how do you protect it?

Jamie Graves, ZoneFox

Intellectual property (IP) theft is running rampant. Some organisations know it and disclose any loss of IP that occurs. Other organisations know it but keep their IP disclosures under wraps for as long as they can. The rest … well, they may be leaking IP at this very second and be none the wiser. Lack of information classification, information security policies and access control measures protecting IP can make for a very sticky situation. Almost every company has intellectual property of some sort, even if it doesn’t know it. So how do you know if you have IP? And how can you protect it once you figure out what it is?

The first thing you need to do is sit down and ask yourself: “What does our organisation do?” If you’re a manufacturer of fine gadgets and gizmos, the chances are that your IP revolves around blueprints or schematics. If you’re a software development shop, your IP is most likely your...
Malware is always a threat too. Just because you have strong security measures in place doesn’t mean that your IP is safe from prying eyes. Malware can be introduced into your network through a variety of methods, such as infected emails, malicious websites, or even human error. It’s pretty hard to protect data and keep a business running smoothly without information security policies. You cannot enforce what does not exist.

An information security policy should provide information on which data needs to be protected and which level of protection is required, who should have access, where the data resides and how the data needs to be protected. You should also note how the data needs to be transported, as well as methods for its destruction once it has outlived its purpose.

Data identification and classification

In order to protect the data mentioned in the information security policy, data in your environment needs to be identified and classified. Identifying the data means sitting down with business owners and gaining an understanding of the organisation’s core business objectives, the data that supports those objectives and the data generated as a result of those objectives. Once you identify the crown jewels of the organisation, you can classify them as restricted.

Next, define a core team that requires access to the data and give it access. Nobody else should be given access to the data without express written consent from the business owner.

Education and awareness

Once you’ve classified your data, you can then start educating users as to how they will be accessing and using your organisation’s data. First of all, you’ll need to provide basic security awareness training for users of your company assets. You’ll also need to tailor training for users who will be accessing restricted data. Provide tools for these users to access the data, work with the data, save the data and destroy the data securely.

Once training is complete, users need to understand that actions such as saving IP to their laptop, emailing IP unencrypted or through a personal webmail service and putting IP on a personal USB key can and/or will be seen as data theft and will be actionable – potentially resulting in dismissal. If there’s one thing users need to know, it’s the fact that their organisation’s intellectual property is what keeps the gears turning and that any attempts (or perceived attempts) to compromise IP will be taken seriously.

Access control and least privilege

Think of these access controls and the principle of least privilege as the locks on doors to the china cabinet when trying to protect your precious heirlooms from toddlers. You might tell your children that the cups and saucers are priceless and off-limits, but they’re still going to try to get in at some point.

“Define a core team that requires access to the data and give it access. Nobody else should be given access to the data without express written consent from the business owner”

Although educating your users is essential to IP protection, you need to ensure that if they forget some of the rules you taught them, there are security controls in place to keep them from going where they shouldn’t. File system permissions, firewall rules and group policies are examples of access control. Implementing access control measures gives you flexibility to provide or revoke permissions on a specific IP resource and helps keep the user honest. After all, it’s not fair to your users if they have to walk on eggshells because they are afraid of being fired for going somewhere they shouldn’t! And just as the toddler leaves chocolate fingerprints on the handle to the china cabinet, users who wander leave server logs when they try to access data they shouldn’t.
دریافت فوری متن کامل مقاله

امکان دانلود نسخه تمام متن مقالات انگلیسی
امکان دانلود نسخه ترجمه شده مقالات
پذیرش سفارش ترجمه تخصصی
امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
امکان دانلود رایگان ۲ صفحه اول هر مقاله
امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
دانلود فوری مقاله پس از پرداخت آنلاین
پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات