Blockers for moving your IT to the Cloud

• Traditionally many organisations have and continue to outsource their IT solutions for a number of reasons:
  • the costs of setting up and running their own datacentre(s);
  • the complex nature of owning and running physical infrastructure;
  • the lack of skills within their organisation required to manage complex IT solutions;
  • not having the knowledge and skills to transform their IT to use alternatives such as cloud services;
  • not knowing where to start or who can help them to achieve their objectives.

• The decision on which pieces to play can be a daunting prospect given the vast array of cloud vendors, service models and services that are now available.
Selecting the right cloud service model is key.
Picking the right vendor is essential

So why do we recommend using Microsoft Azure?

- With Microsoft Azure you enjoy more choices in the cloud than with their competitors, including Infrastructure as a Service (IaaS) and Platform as a Service (PaaS), and more and more vendors are deploying their services on to the Microsoft Azure Platform as Software as a Service (SaaS).

- With Microsoft Azure you have choices that help you maximize your existing investments, including support for Windows, Linux, .NET, Java, PHP and many other technologies.

- You can develop and test your open source components in Microsoft Azure, bringing the tools you prefer and skills you already have to run virtually any application using your data source with your operating system on your device.

- You can future-proof what you build as Microsoft are constantly looking for ways to improve developer and user experiences with SDKs for a wide range of technologies including open source languages and open APIs.

- At Microsoft open source is a part of their day-to-day approach to cloud innovation and they are committed to sharing their cloud learnings with you, thanks to Linux and open source support in Azure Resource Manager and the wider Microsoft Azure Stack.
Choosing the right vendor cloud services can be daunting.
Motivations for moving your IT to the Cloud

• Given the advances in cloud computing many organisations are re-evaluating the possibility of moving to cloud services now that some of the blockers have been un-blocked and therefore consideration can be given to making this transition.

• The key questions that they are now facing are:
  • how do we go about successfully moving our IT solutions to the cloud?
  • what skills do we now require to achieve our objectives?

• This is where we can help with our Services Model(s) for the Microsoft Azure Platform which are available via G-Cloud.

• Our services have been carefully designed to help launch you on your cloud journey where our role is to be your qualified trusted partner on the exciting voyage ahead.
About Us

Our mission is to deliver industry leading cloud services that empower our customers and our vision is to be your reliable, trusted and valued partner of choice.
About us and what we do...

• We are a specialist technology company. It is in our DNA to focus on providing services that in partnership with customers help them evolve and manage their IT using cloud services.

• As part of the UK Government’s IT Strategy it has committed to the adoption of cloud computing in line with the Cloud First Policy.

• The government’s G-Cloud Strategy will enable the UK Government to undertake fundamental changes in the way the public sector procures and operates its IT services using cloud technologies.

• Key to the success of moving government services to the cloud is the adoption of a pragmatic cloud architecture approach to ensure services are designed and built to run in the cloud.
About us and what we do...

- Building for cloud platforms means designing for cloud optimised architectures and, because cloud platforms are different from traditional on premise platforms, this results in new development and deployment paradigms.
- Fundamentally a cloud optimised architecture is one that favours loosely coupled services in highly scalable environments.
- A key element of adopting and moving your services to the cloud is the adoption of a set of agile principles and practices in line with a DevOps culture.
- Adopting agile is key to your success as it provides you with the principles and practices required to transform your IT operations as you embark on the journey from legacy infrastructure management to the exciting opportunities that cloud services offer.
About us and what we do...

• We have been working with our customers over the last few years developing and deploying cloud services using agile principles and architecture practices inline with a DevOps culture as applied to cloud services.

• We provide a range of services building on industry and government best practice including:
  • ITIL, MSP, PRINCE2 and then combining this with agile pragmatic delivery techniques including SCRUM, KANBAN and LEAN principles.

• Our Services Model can be used to help you target the right solutions for you to move your business services to the cloud ensuring that they achieve the business outcomes that meet your user needs.
Our mission is to deliver industry leading cloud services that empower our customers and our vision is to be your reliable, trusted and valued partner of choice.
Our approach to delivery is based on agile principles

As a member of the Agile Alliance we adhere to the following principles:

1. The highest priority is to satisfy the customer through early and continuous delivery of valuable solutions.
2. Welcome changing requirements, even late in process. Agile processes harness change for the customer's competitive advantage.
3. Deliver working solutions frequently, from a couple of weeks to a couple of months, with a preference for the shorter timescale.
4. Business people and developers must work together daily throughout the project.
5. Build projects around motivated individuals. Give them the environment and support they need and trust them to get the job done.
6. The most efficient and effective method of conveying information to and within a delivery team is face-to-face conversation.
7. Working solutions is the primary measure of progress.
8. Agile processes promote sustainable solutions. The sponsors, delivery teams, and users should be able to maintain a constant pace indefinitely.
9. Continuous attention to technical excellence and good design enhances agility.
10. Simplicity - the art of maximizing the amount of work not done - is essential.
11. The best architectures, requirements, and designs emerge from self-organising teams.
12. At regular intervals the team reflects on how to become more effective and then tunes and adjusts its behaviour accordingly.
**Our approach to architecture is based on agile practices**

As a member of the Agile Alliance we balance intentional architecture with emergent design:

<table>
<thead>
<tr>
<th>Common myths surrounding agile architecture</th>
<th>Realities of Agile Architecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Agilists don’t “do architecture”</td>
<td>→ 1. Architecture is so important that disciplined agilists address it throughout the entire lifecycle.</td>
</tr>
<tr>
<td>2. Agilists don’t follow enterprise architecture strategies.</td>
<td>→ 2. Disciplined agilists work closely with enterprise professionals.</td>
</tr>
<tr>
<td>3. Agilists don’t model.</td>
<td>→ 3. Disciplined agilists explicitly model in a lightweight manner throughout the lifecycle.</td>
</tr>
<tr>
<td>4. Agilists start coding right away.</td>
<td>→ 4. Disciplined agilists continually invest in just enough up front design throughout the lifecycle.</td>
</tr>
<tr>
<td>5. Agilists don’t document.</td>
<td>→ 5. Disciplined agilists write deliverable documentation continuously.</td>
</tr>
</tbody>
</table>
Our approach to architecture is based on design principles:

1. **Separation of Concerns**: solutions should be divided into distinct features with minimal overlap in functionality; enabling high cohesion and low coupling.

2. **Single Responsibility**: each designed component should be responsible for a specific feature or capability.

3. **Minimal upfront design**: only design what you need and avoid detailed upfront designs for components that may never be required.

4. **Solve Problems, share solutions**: rather than re-inventing the wheel each time, solutions should be repeatable and shared throughout the organisation.

5. **Fit for Future**: By including Strategy and Architecture in the feedback loop designs can continually be improved in order to remain relevant and deliver the best possible solution for the future needs of the business.

6. **Least Privilege**: A ‘secure by default’ stance allows for granular control of systems and information. Access can then be easily granted in a controlled and monitored manner.

7. **Don’t repeat yourself (DRY)**: Do something once, do it well; re-use that effort as often as possible to realise increased value

8. **Design for Change**: Designs should be adaptable to change in order to remain current and relevant to evolving business needs.

9. **Defence in Depth**: An ‘assume breach’ posture on security provides layers of defence with enhanced threat intelligence allowing for a faster identification and elimination of threats.

10. **Design to run**: once delivered solutions should be sustainable in a cost effective manner. This has a direct impact on the choice of technologies used and the skillsets required to maintain it.

As a member of the Agile Alliance we adhere to the following principles:

- **Solve Problems, share solutions**: rather than re-inventing the wheel each time, solutions should be repeatable and shared throughout the organisation.
- **Defence in Depth**: An ‘assume breach’ posture on security provides layers of defence with enhanced threat intelligence allowing for a faster identification and elimination of threats.
- **Design for Change**: Designs should be adaptable to change in order to remain current and relevant to evolving business needs.
- **Fit for Future**: By including Strategy and Architecture in the feedback loop designs can continually be improved in order to remain relevant and deliver the best possible solution for the future needs of the business.
Our approach to operations is based on the DevOps culture

- DevOps (Development and Operations) is a software development phrase used to mean a type of agile relationship between Development, Quality Assurance and IT Operations teams.
- The goal of DevOps is to change and improve the relationship between these teams by advocating and embedding communications and collaboration.
- DevOps is not based on stringent methodologies and/or processes. It is based on professional principles that help teams collaborate and break down the traditional silos.
- The guiding principles of DevOps include promoting a DevOps culture, measure to improve, automate for efficiency, learning from failure, sharing knowledge and ensuring zero blame culture.
- For us the adoption of a DevOps approach is key to your success of moving to the cloud.
Our teams come with tools, processes and experience.
Technologies we use to deliver and can support

- Microsoft Azure
- Office 365
- Visual Studio
- Microsoft Teams
- SharePoint
- Microsoft Dynamics CRM
- System Center Operations Manager
- SQL Server
- ORACLE
- VeloStrata
- mongoDB
- Chef
- Automated Intelligence
- Archive360
- PRINCE2
- DevOps
- ATLASIAN
- GitHub
- MSP
- ITIL
- eas Cloud Services
Our Service Model

Our mission is to deliver industry leading cloud services that empower our customers and our vision is to be your reliable, trusted and valued partner of choice.
We provide a range of integrated services via G-Cloud.
We provide both Cloud Delivery and Support Services
Our services work together to provide continuous delivery.
Service Model – Cloud Integration Services

- We provide a number of Cloud Integration Services that you can use to help you architect, design and manage your cloud services.
  - Our Service Architecture practitioners will work with you to model your cloud services capabilities and produce cloud service integration models so you understand the integration points both within your organisation and external to your organisation.
  - Our Service Design practitioners will work with you to design your cloud services to ensure they are Digital by Default, are compliant with the latest user interface guidelines, and are in line with your user needs.
  - Our Service Delivery practitioners will enable you to plan and rapidly migrate your existing workloads, or work with you to plan building your new cloud services using proven agile delivery techniques. In the main for digital and technical projects this is undertaken using the SCRUM or KANBAN approaches or, as we do often, combining them together in the form of SCRUMBAN.
  - Our Service Management practitioners will work with you to put in place robust service management principles and practices for your cloud services. They will build on ITIL best practice, however they will also incorporate agile principle and practices into the running of your cloud services.
We provide a number of Cloud Engineering Services that you can use to help you architect, design, re-develop/develop and support your cloud services.

- Our Cloud Architecture practitioners have extensive experience of architecting solutions for cloud deployments including re-architecting legacy applications and architecting solutions from scratch that are architected for cloud technologies. Our architects work closely with the Technology Code of Practice.

- Our Cloud Design practitioners also have extensive experience of designing solutions for cloud deployments including designing migrations for legacy applications and designing new solutions from scratch that are designed for cloud technologies.

- Our Cloud Development practitioners will enable you to rapidly migrate your existing workloads to the cloud or support the building of new cloud workloads. In order to achieve this we will work with you to build automated pipelines using Continuous Development and Continuous Deployment (CI/CD) best practices.

- Our Cloud Support practitioners will work alongside your business teams to ensure the smooth running of your cloud services, providing 1st line support and undertaking minor enhancements and service improvements during the service lifecycle.
Service Model – Cloud Operations Services

- We provide a number of Cloud Operations Services that you can use to help you operationally manage your cloud services.
  - Our DevOps practitioners will work with you to establish a culture and environment within your organisation where building, testing, and releasing your software can happen rapidly, frequently, and more reliably. In order to achieve this we will work with you to build robust CI/CD pipelines for your cloud services.
  - Our DataOps practitioners will work with you to foster a tight collaboration between data engineers/data scientists and IT operations, which in turn provides robust, reliable and high performing business intelligence and data services in the cloud.
  - Our SecOps practitioners will work with you to enable you to prioritise and remediate critical security vulnerabilities, systematically addressing compliance violations through an integrated and automated testing approach. This includes security accreditation and, where required, ethical hacking by certified hackers to establish a baseline security risk profile.
  - Our TechOps practitioners will work with you to apply the same CI/CD DevOps best practices in line with our adoption of ‘Infrastructure as Code. This will include automation of routine processes including backups, patching and general maintenance.
We provide also provide Cloud Support Services

### Cloud Support Services

<table>
<thead>
<tr>
<th>Service</th>
<th>Basic</th>
<th>Standard</th>
<th>Premium</th>
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</thead>
<tbody>
<tr>
<td><strong>Service Hours</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08:00- 18:00 Monday to Friday excluding UK Public Holidays</td>
<td></td>
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</tr>
<tr>
<td><strong>Service Availability</strong></td>
<td>99.5%</td>
<td>99.7%</td>
<td>99.9%</td>
</tr>
<tr>
<td><strong>SLAs Resolution Targets</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P1 – 12 hrs</td>
<td>✗</td>
<td></td>
<td></td>
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<tr>
<td>P2 – 24 hrs</td>
<td>✗</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P3 and P4 – 85% within 5 working days</td>
<td>✗</td>
<td></td>
<td></td>
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<tr>
<td><strong>Telephone Support</strong></td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
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<tr>
<td><strong>Email Support</strong></td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
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<tr>
<td><strong>Self-service Portal</strong></td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
</tbody>
</table>

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[Diagram showing gear icons and service level agreements (SLAs) for different support levels (Basic, Standard, Premium)].
Our mission is to deliver industry leading cloud services that empower our customers and our vision is to be your reliable, trusted and valued partner of choice.
How we work with you

- **Working with you to embed an agile culture** – we work with you to embed the principles and practices of the agile manifesto inline with a DevOps culture.

- **Working with you in partnership** - we work as an extension of your in-house teams, winning the trust and buy-in of staff working together to achieve agreed goals.

- **Working with your methods and structures** - we will adhere to your chosen project and programme governance processes, including their underpinning principles, ethos and associated practices.

- **Applying our knowledge to your organisation** - we will provide knowledge to you from the broader knowledge and experience that we have gained from many other directly related services and projects.

- **Transferring our knowledge and skills** - we fully recognise the need to improve your in-house skills and therefore we aim to undertake knowledge and skills transfer from the very start of our engagements.
How we can help you

• We are ideally placed using our Services Model(s) to help organisations looking to adopt the Microsoft Azure cloud platform.

• As a Microsoft Gold Certified Partner we will work with you to identify your needs and then help you to realise your vision of running your own IT solutions in a cost-effective way.

• As a member of the Agile Alliance we are committed to working with you in-line with agile principles and practices.

• Our services can be used separately or combined together to help you evolve and manage your IT solutions using the Microsoft Azure cloud services.
If you would like to know more

If you would like more information on how we can help you please contact:

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or
Email:   information@eas.co.uk
Tel:        +44 (0) 12476 158 711