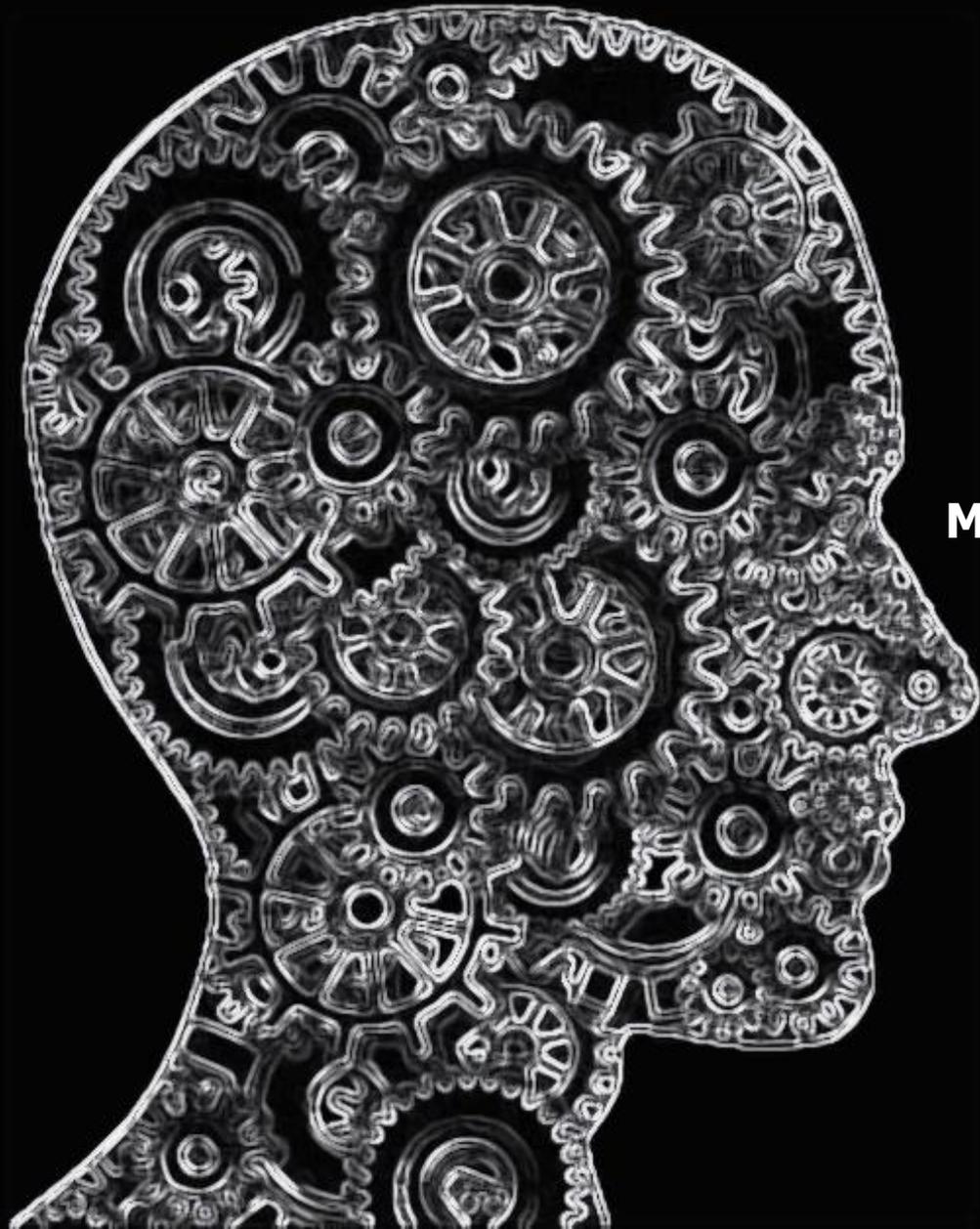


Workload Automation

...and the **Cloud**

Market research and discussion paper from Elyzium;
experts in Workload Automation solutions.



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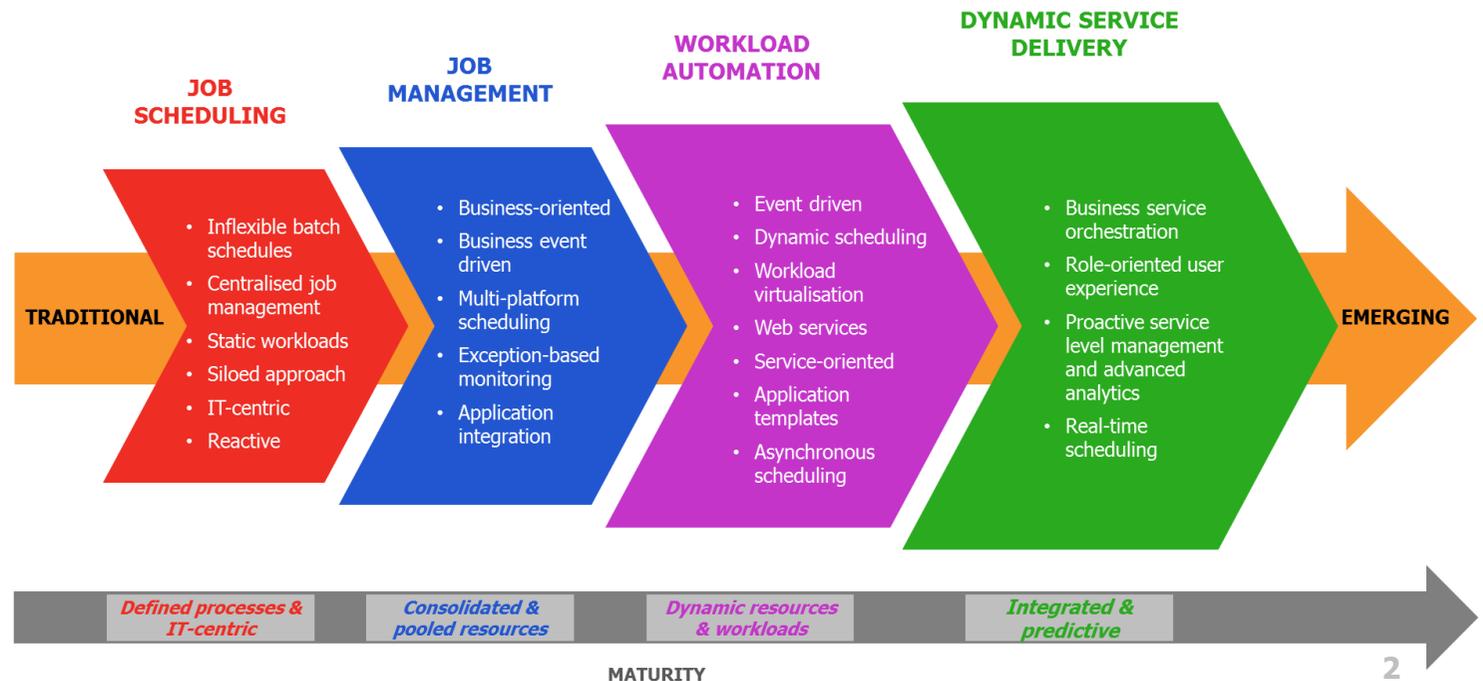
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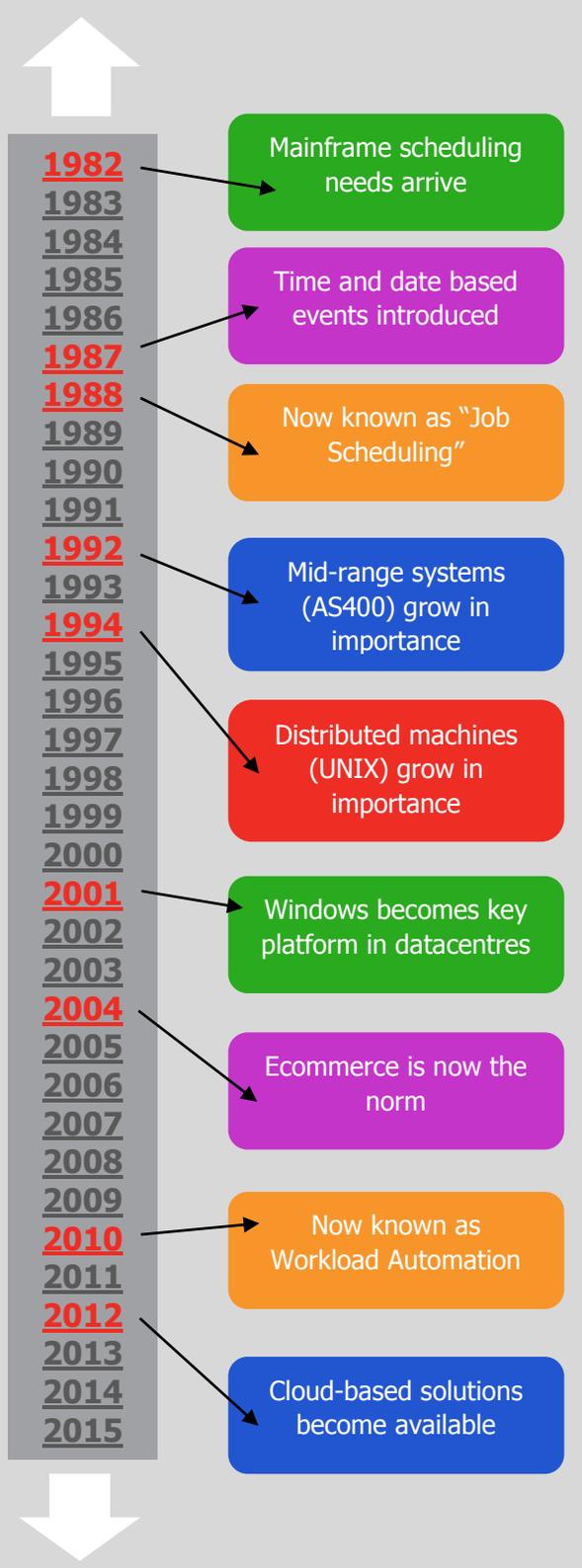
EXECUTIVE SUMMARY

The complexity of information systems and the increasing demand for higher service levels have created the need for new architectures that guarantee quality, performance and reliability of existing services, whilst increasing efficiency and driving down the cost of ownership. This is achieved using a number of different methods - from Business Process Modelling through to Workload Automation.

Workload Automation is a solution which allows the seamless synchronisation of data between applications, or modules, within an application to automate business processes. This ensures minimum human intervention while allowing the dynamic bi-directional transition of information either synchronously, or asynchronously. An example of this is could be as part of a supply chain with an external provider. At its heart, the data could be held within a secure file, but by using Workload Automation this data can be sent, processed and returned in near real time to ensure stocks within a retailer are maintained or banking transactions are processed.

The purpose of Elyzium's market research was to quantify - based on a representative cross section of UK organisations - the current priorities and goals of IT, and potential inhibitors to achieving these using Workload Automation. We would like to thank the companies and individuals that took part in our research for their invaluable feedback.





INTRODUCTION

Since the introduction of the early mainframe systems, Job Schedulers have formed a fundamental part of the IT infrastructure, starting the first era of scheduling with the processing of piles and piles of punched cards (Batch Processing). As the number of applications in use, and their associated workloads grew significantly over the years - whilst the window of time for executing those workloads continually shrunk due to ecommerce, Globalisation and the need to be open for business 24x7 - scheduling technology had to evolve.

Job Scheduling saw its first major evolution and entered its second era as distributed computing environments became commonplace, leading to a requirement for job schedulers to perform across multiple architectures and operating systems. More recently came the third era of the Job Scheduling story – a move from the more traditional, multi-platform, and resource intense batch scheduling environments towards highly efficient and centralised Workload Automation solutions. And finally, with Cloud Solutions - and their promises for a more efficient and cost effective way for all things IT - now very much on the horizon, the beginnings of a fourth era of Job Scheduling seems to be upon us.

Workload Automation has been around for some time now, and despite the fact that both the technical and business benefits are well documented and understood, many organisations are still using multiple scheduling tools and struggling to manage an infrastructure that continually grows in complexity. Since we live, sleep and breath Workload Automation at Elyzium, it's natural that we should want to find out the reasons why many organisations are yet to make the move towards Workload Automation itself, and furthermore running it in the Cloud.

So we've done exactly that. By putting together a short survey, and distributing it amongst key decision makers within UK businesses, we've been able to gain valuable insight in understanding the Workload Automation challenges organisations are facing, and the prohibitive factors and fears they have in moving towards a centralised or Cloud environment.

This paper not only allows you to benchmark yourself against peers by sharing and discussing the results, but additionally goes on to explain why some of these fears may now be unfounded given recent advances in technology and solutions.

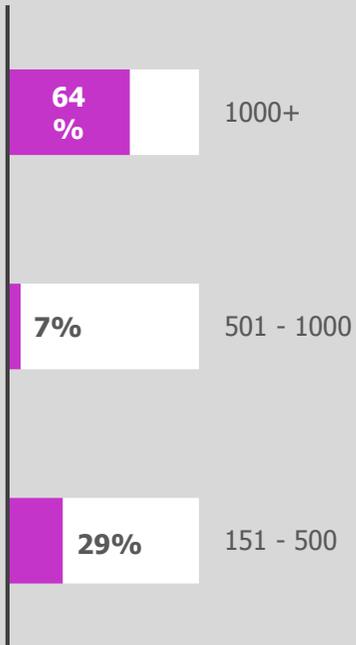
RESPONDENT DEMOGRAPHICS

We asked IT professionals to complete our short survey online. Respondent pre-requisites were:

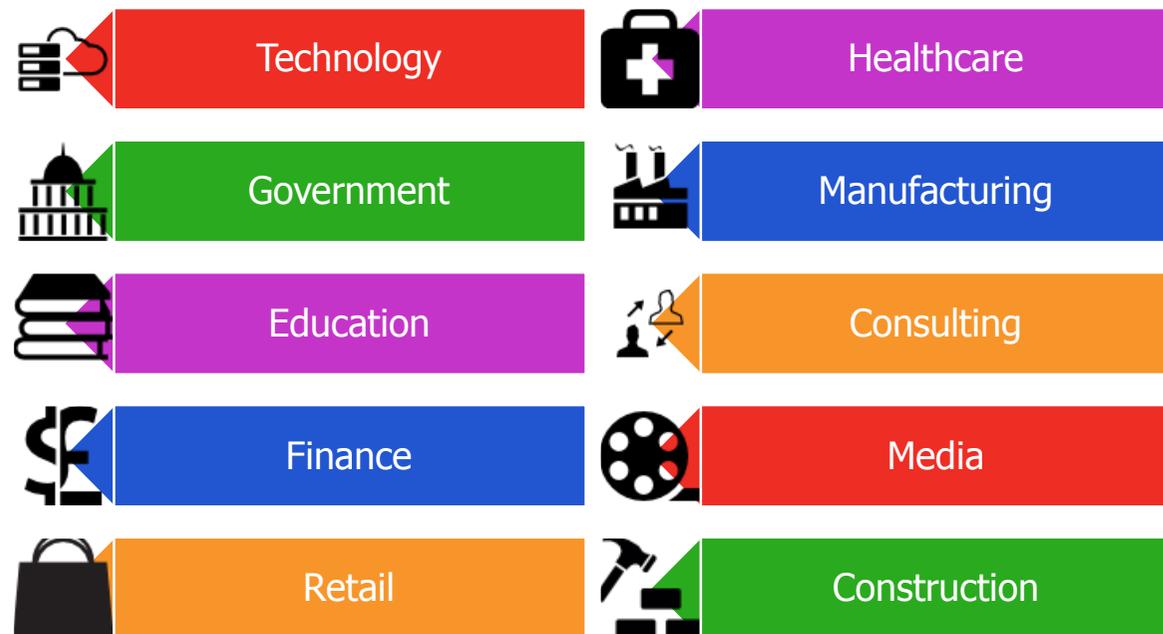
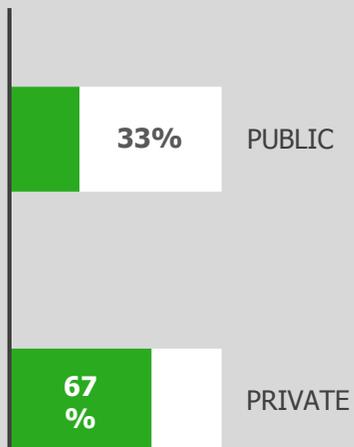
- An active involvement with their organisations' Job Scheduling and/or Workload Automation environment
- An organisation size of greater than 150 employees
- An active role within their organisation's decision making process for the procurement of IT solutions

We received 121 responses from both SME and Enterprise organisations, operating within over 25 separate industries from both the private and public sectors. Respondent titles varied from IT Director to Business Analyst, and from CIO to Technical Architect. All roles – evaluate, determine need, influence, identify, and authorise - within the decision making unit were very well represented.

ORGANISATION SIZE



SECTOR



1 Top Ten Respondent Industries

KEY FINDINGS

1. The majority of organisations have a goal to increase IT efficiency.

And most organisations view automation – whether in general or specific to workloads – as a way to reach this goal.

2. Use of multiple scheduling tools can lead to an array of issues.

From continual errors and inefficient use of resources, to the inability to accurately report and the high costs complexity brings.

3. The use of free scheduling tools is a false economy.

Applications are highly interconnected and dependent on each other. Yet free tools run in silos providing little, or no alerting when failures occur as part of a business process spanning multiple servers and applications.

4. A consolidated Workload Automation solution provides easy, cost-effect and centralised control.

Yet many organisations still hold incorrect perceptions that it is expensive, risky and near on impossible.

5. Cloud-based Workload Automation offers significant benefits.

By negating the need for hardware infrastructure and software configuration, a Cloud-based solution makes Workload Automation a possibility for all sizes of organisation, including those for which high costs have made an on premise solution unattainable. Additionally, a Cloud-based solution is delivered on-demand and scales easily in answer to business needs.



Organisations need to increase IT efficiency



Using multiple scheduling tools causes issues



The use of free scheduling tools is a false economy



Consolidated Workload Automation offers multiple benefits



Workload Automation in the Cloud is even more beneficial

We asked respondents *"What are the priorities for IT within your organisation currently?"*

70%

answered that improving IT efficiency is a current priority.

77%

plan to standardise on infrastructure as one way to help improve efficiency.

27%

will introduce, or improve, Workload Automation to drive gains in efficiency.

30%

are looking to the Cloud to increase IT efficiency.

IT PRIORITIES

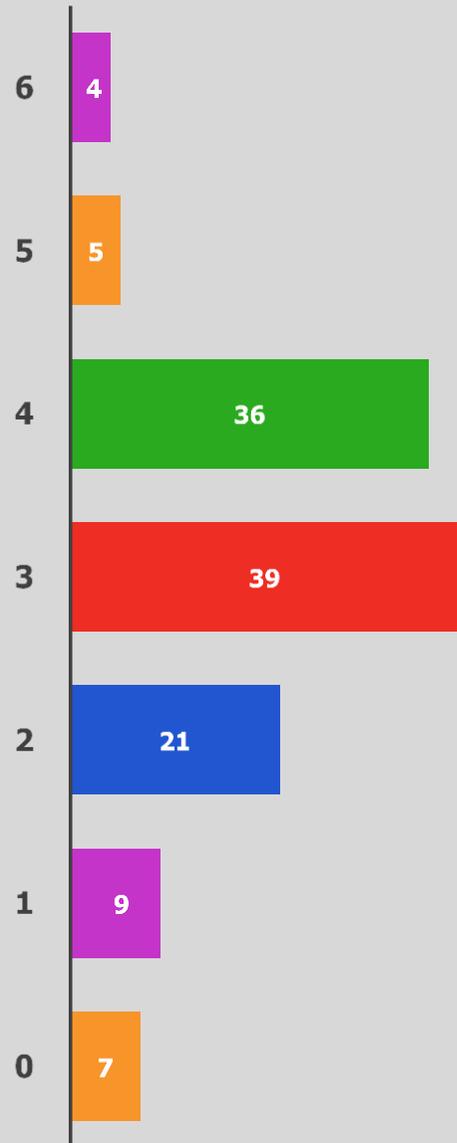
WHAT'S THE FOCUS IN 2014/2015?

Increasingly, IT departments are expected to deliver services as if they were an external provider, performing within strict SLA's at highly competitive rates. It is therefore no surprise, that when asked *"which of the following are priorities for IT within your organisation currently?"*, over two thirds of respondents answered that improving IT efficiency was a current priority, with over a third being expected to improve the measurement of IT's impact on business services. Also high on the agenda was improving the IT organisations' flexibility and agility – ensuring it can properly support the business as it must continually evolve to respond to ever changing customer wants and needs, and to remain competitive in its market at all times.

The ability to achieve these priorities calls for an increase in IT resources, and in order to do this IT organisations must find a way to improve productivity. So the next question we asked respondents was "What is your organisation doing to improve IT efficiency?"

The focus for many organisations is the need to "do more with less", and so unsurprisingly a staggering majority of 77% are standardising on infrastructure as a way of improving IT efficiency within their organisation. Infrastructure standardisation helps minimise costs by keeping hardware and software consistent. By reducing the number of multi-vendor IT tools that perform the same tasks, organisations can enjoy a streamlined IT infrastructure, simplified decision making and reduced purchasing and maintenance costs.

How many different scheduling tools are our respondents using?



AUTOMATE, AUTOMATE, AUTOMATE!

Of course, Automation – whether simply IT task and process automation, or ensuring the successful execution of batches and application jobs via Workload Automation, is key to improving IT efficiency. The automation of manual tasks and activities can lead to vastly improved productivity, and ultimately efficiency, of the IT department. And because automation reduces complexity, new technologies become easier to implement, allowing the rapid introduction of new and better business services, and an increase in flexibility and agility.

"IT process automation is the key to industrializing your operations to improve productivity and reduce costs."

JP Garbani, Vice President, Principal Analyst at Forrester Research

Most mission critical applications have a requirement for job scheduling and generally provide basic, inbuilt functionality. Whilst these built-in scheduling capabilities serve the immediate requirements of the application, they are closed solutions. In a world of application diversity, business processes will, by necessity, cross application boundaries. As data flow increases, processing volumes grow, and the infrastructure becomes more complex, IT is increasingly relying on workload automation to automate and standardise file/data transfers, workflows, applications and processes, and tie together the various landscapes of heterogeneous IT environments.

By automating daily, repetitive and time-consuming tasks, IT can proactively manage operations through alerts and notifications from a single pane of glass, and leverage workflow automation tools to:

- Enhance security and compliance whilst reducing risk.
- Increase reliability and service delivery.
- Control costs.
- Decrease routine operations effort, leading to increased time for innovation.

We asked respondents, *"Do you agree with any of the following statements?"*

IS MANAGING MULTIPLE SCHEDULING TOOLS TIME CONSUMING & ERROR PRONE?

Yes 51%

No 49%

DOES A LACK OF INTEGRATED MANAGED FILE TRANSFER CAUSE BUSINESS ISSUES?

Yes 36%

No 64%

THE COMMON CHALLENGES

Using multiple tools introduces the following key challenges:

How do I schedule and synchronise workload automation between the various tools?

The diversity of platforms and applications brings many challenges to Workload Automation. Whilst some applications may store data in databases on a mainframe, other applications - such as SAP - may use Oracle or DB2 on distributed systems. Data Warehouse applications provide reporting through built-in applications or use commercial packages such as Cognos or Crystal Reports. With all this diversity, IT is struggling to find a way to get these numerous data sources and repositories of corporate information to share and integrate data. IT organisations are required to make systems with very different operating and communications paradigms to interact with one another, hence increasing the complexity of running and monitoring the flow of jobs between them.

How do I monitor the flow of scheduled jobs?

Different platforms have different monitoring mechanisms. Most applications will have some type of log that chronicles their activity. Database-centric applications, such as ERP systems, tend to keep these logs in database tables. Other systems will write a text file that tracks key events. Consolidating Workload Automation to a single platform provides a single pane of glass into the entire business process.

DO JOB RUN & SCHEDULING ERRORS TAKE EMPLOYEES AWAY FROM MORE STRATEGIC TASKS?



IS A MOVE TO THE CLOUD MORE DIFFICULT WITH MULTIPLE SCHEDULERS IN PLACE?



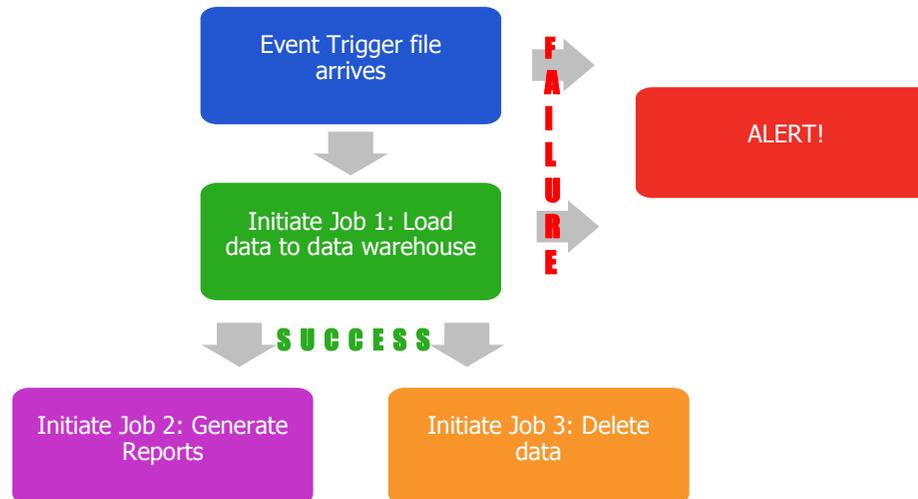
DOES A LACK OF CENTRALISED CONTROL MAKE PERFORMANCE & SUCCESS REPORTING DIFFICULT?



FREWARE; A FALSE ECONOMY?

Unfortunately, Workload Automation often gets little consideration until a project is about to go live. Developers frequently choose to run business integration processes manually, so that they don't have to wait for operations to setup and create the batch schedules, and rely on them to make changes when needed. Another short cut is to use free, native tools, as often this negates the requirement for operations to be involved. Whilst these free tools may work in isolation in test environments, it is often not the case when the project goes live. Consider a retailer with an outsourced customer loyalty program. On a daily basis the retailer receives data from its outsourcer at 8am, and at 10am Cron - a free UNIX native tool - runs a job to load the data into a data warehouse for reporting. At 5pm Cron runs another job to delete this data. But what happens if the data doesn't arrive on time? What if the data isn't loaded correctly into the corporate data warehouse?

Whilst free scheduling tools like Cron will run at a specified time, Workload Automation integrates the entire process. An Event Trigger initiates a job to load the data into the data warehouse, and on successful completion, a second job is run immediately to produce specified reports, along with a third to delete the data. Should any of the processes fail, it will be highlighted immediately in the Workload Automation interface, allowing remedial action to be taken hence minimising any reporting delays.



2 The Event Trigger Process within Workload Automation

WORKLOAD AUTOMATION SOLUTION FEATURES

Workload Automation solutions deliver the following features:



A unified interface regardless of technology platform and specifically a GUI that abstracts platform diversity.



Centralised control for all scheduling needs, making sure that all jobs are synchronised and all resources managed.



A self-service interface.



A unified interface to system management packages and resource management.



A tight link to virtual resources provisioning ensuring that jobs are completed on time.

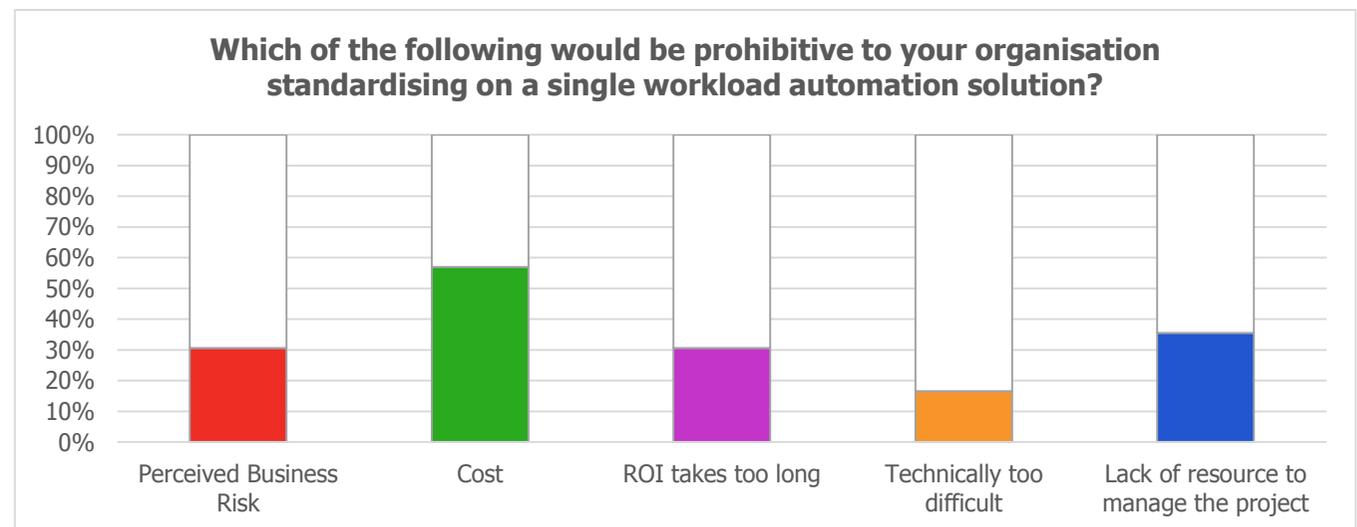
TO CONSOLIDATE OR NOT TO CONSOLIDATE?

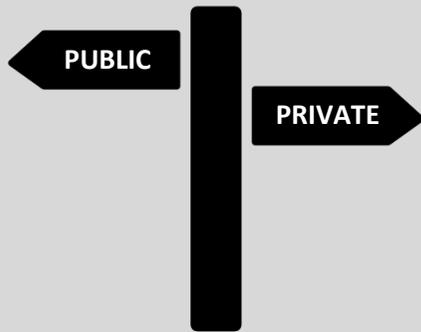
Benefits of Workload Automation over multiple job scheduling solutions:

- A reduction in manual effort and errors
- Improved on-time run of batch jobs
- Optimised server usage and available capacity
- Reduced number of FTEs in charge of batch scheduling
- Better control of all batch activities

A consolidated Workload Automation solution delivers multiple benefits in relation to cost, control and effectiveness of business service processing, for IT as well as numerous business units within the organisation. A more satisfying and efficient user experience for business users leads to an increase in productivity, which is also enjoyed within IT thanks to the reduction of manual effort. Plus, supporting the scheduling needs of the entire enterprise with a consolidated Workload Automation solution removes the need for maintaining licenses for redundant software, which usually results in significant savings.

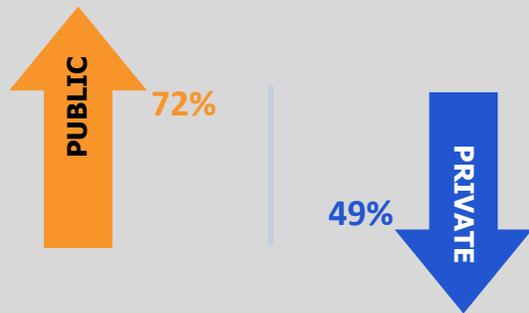
Yet, despite the fact that job scheduling is a business critical process, Workload Automation technology is no longer considered “new”, and its benefits are clear, compelling and plentiful, many organisations are yet to move to a centralised Workload Automation solution. So we asked respondents to share the reasoning behind this. The results are shown in the graph below:



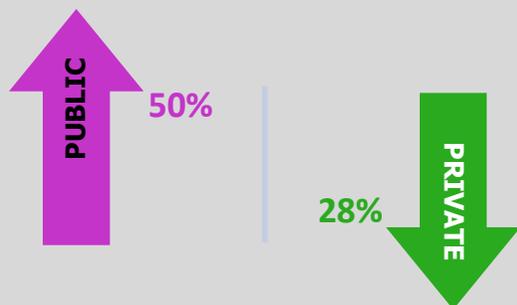


Whilst both sectors face the same blockers when it comes to consolidation, the effects of deep cuts across public sector organisations in recent years were clearly visible in the survey results.

COST AS A PROHIBITIVE FACTOR



LACK OF INTERNAL RESOURCE AS A PROHIBITIVE FACTOR



COST

Unsurprisingly, almost 60% cited cost as a prohibitive factor. Software licenses, irrespective of vendor, are expensive. Most new IT initiatives or projects have a job scheduling element, however often this won't be accounted for in the budget. This leads to organisations developing their own in-house solutions, using far cheaper, inferior software or worse - freeware.

Of course in the short term this will keep capital expenditure costs down, however it is not a long term solution, and contributes vastly towards many of the other prohibitive factors. As discussed previously, as an organisation grows and they implement more and more scheduling tools, the environment becomes increasingly difficult to manage, often requiring several full time employees to keep it ticking over. Despite good signs of a financial recovery and economic growth, many businesses are yet to see it and are still under-resourced following staff cuts during the longest and hardest recession most of us have experienced. Clearly this is particularly true within public sector organisations, leading to "lack of resource to manage a project to centralise Workload Automation" being a blocker in many cases as the results indicate.

TOO DIFFICULT, TOO RISKY?

Managing a multi-tool, heterogeneous scheduling environment is only one element of the complexity story. The other is complexity of migration. With many different tools in place, migrating to a single solution is often perceived as being just too difficult. IT departments fear that it will take forever, cost a small fortune in consultancy fees and given that job scheduling is often a business critical process, be riddled with business risk. Everything is working ok at the moment, so why change it when many of these processes are critical for day-to-day operations?

ROI TOO LONGTERM?

With perception that software licences and associated hardware infrastructure have to be expensive, and that migration from many tools to a single solution is difficult and time consuming, it is not surprising that a third of respondents cited a too long ROI as being prohibitive. And so the circle keeps turning with apparent capital expenditure savings actually leading to an increase in operational expenditure, and complexity continually on the increase.

ASSESS THE SITUATION



A comprehensive workload assessment from a specialist provider will provide you with a complete appraisal of your workload automation environment, providing the quantified justification required to move towards a consolidated environment, whilst setting out a clear path to allow you to achieve your goals with no impact to your business.

PERCEPTION VERSUS REALITY – TWO VERY DIFFERENT THINGS

Despite the very valid fears that respondents have, consolidating multiple job scheduling environments to a centralised Workload Automation solution doesn't have to be expensive or complex.

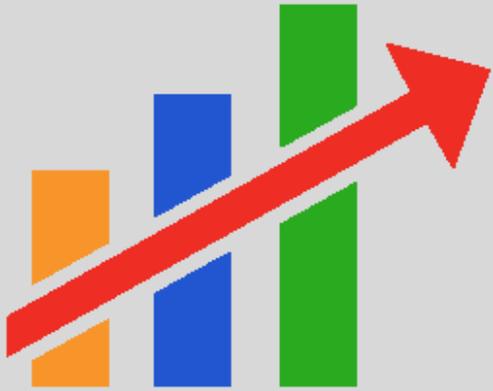
Software licences can be cheaper than you think...

It's no secret that standardisation on an on-premise solution means a significant outlay of capital investment. Many of the leading vendors now offer a Cloud solution however – providing the same features and functionality, but typically at up to 40% less than an on premise solution. Many of the Cloud solutions are also simply priced per job, meaning you only ever pay for what you need. Plus, a Cloud solution will often eliminate the need for both hardware and deployment, leading to further significant savings for capital expenditure.

Migration is easy when you make the right choices...

Unsurprisingly, fear of migration from a multi-tool environment is often a blocker for organisations considering the possibility of consolidation to a single Workload Automation solution. In fact, nearly 20% of survey respondents cite "technically, it is too difficult" as a prohibitive factor. But it doesn't have to be. There are many smaller, specialist vendor partners in today's market who have developed their own intellectual property to make migration a walk in the park. By selecting the right solution, and choosing the right partner, migration really doesn't need to be an issue.

ASSESS THE SITUATION



An assessment allows you to mitigate risk with a process oriented, established conversion service that allows organisations to review their current environment against a set of business needs to produce a strategic report, which forms the justification for change. The assessment should provide a complete appraisal of both the business and IT requirements, gathering information from key stakeholders within the business to deliver the benefits they need.

Eliminate downtime and risk becomes negligible...

Over 30% of respondents see “perceived business risk” as a blocker to consolidation, and of course any possibility of downtime or missed job runs poses a significant risk to any organisations’ business operations, and ultimately to their bottom line. This can be eliminated through selection of the right partner, with the right skills, knowledge, and tools in place to ensure you migration is easy. For example, Elyzium’s Workload Migrator service provides seamless migration to IBM Tivoli Workload Scheduler from competitive solutions, in a fast, accurate, and highly cost effective manner with zero downtime.

You don’t necessarily need in-house resource to manage it...

Nearly 40% of respondents felt they don’t have the necessary resource in house to manage a Workload Automation consolidation project. Yet with the many financial and efficiency gains to be realised from such a project, internal resource should not become a blocker. Choose the right partner, with specialist skills and innovative tools to manage it for you, and minimal input will be required from your internal IT team, and it won’t be as technically difficult as you might think.

CONCERNS OVER SECURITY



WORRIED ABOUT LOSS OF CONTROL



DATA PROTECTION CONCERNS



WORKLOAD AUTOMATION IN THE CLOUD?

As previously discussed, as businesses grow, so does the amount and diversity of platforms and applications. This leads to an exponential increase in data generated that must be processed, and the creation of numerous workloads in separate silos. Management of such complex, heterogeneous environments is both time-consuming and costly, and drives organisations to shift from traditional scheduling tools to centralised Workload Automation solutions. But does Cloud-based Workload Automation provide organisations with an even better solution to managing these challenges?

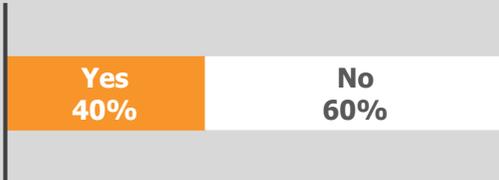
Whether it's software-as-a-service (SaaS), platform-as-a-service (PaaS), or infrastructure-as-a-service (IaaS), the Cloud is very much upon us. Whilst less than 2% of respondents are already running Workload Automation in the Cloud, a recent survey from Information Week found that 45% report Cloud use, with 33% planning or considering it in the near future. This represents a significant increase from the same survey conducted in 2012. Our survey results however indicate that when it comes to running such a critical business process such as Workload Automation in the Cloud, organisations understandably have a number of well-founded concerns.

ADVANTAGES OF CLOUD-BASED WORKLOAD AUTOMATION

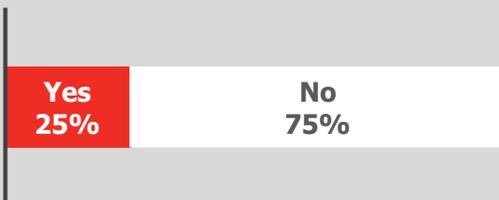
First let's consider what a Cloud solution has to offer. Cloud-based Workload Automation solutions generally offer the same features and functionality as those based on premise. Ultimately, the most compelling reason to switch to the Cloud is the significant cost savings on offer. Probably the most expensive and resource intensive aspect of Workload Automation is the servers that organisations must buy, implement and maintain. A Cloud server negates the need for investing in and maintaining physical infrastructure, saving significant amounts of money immediately. Deployment costs are eradicated, with many Cloud- solutions up and running in minutes.

Plus, the nature of many industries dictates peaks and troughs in demand and revenues, and therefore associated workloads. With an on premise solution, businesses must ensure their solution is scaled sufficiently to handle the peaks, meaning that for the quieter times the solution is oversized and expensive. Consider Retail, where the peaks occur around Christmas - just one sixth of the year. A Cloud solution offers elasticity, with most pricing models structured on a

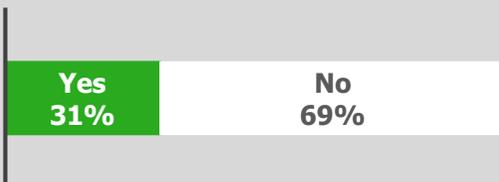
POTENTIAL PERFORMANCE OR DOWNTIME ISSUES



SINGLE VENDOR "LOCK-IN"



COST OF MIGRATION



"per job" basis that can be scaled either up, or down, in real-time. Suddenly organisations can make significant savings by only paying for what they need, when they need it.

Finally consider the potential cost savings that can be made by giving your IT staff more time to focus on strategic tasks, as opposed to nursing a bank of servers. With a Cloud solution organisations enjoy increased time for innovation and streamlining processes. Plus, with some providers offering comprehensive support included in the subscription pricing, the need for expensive, specialised skills in-house is greatly reduced. This all leads to a more efficient, agile and cost effective IT organisation, able to respond quickly to changing business requirements.

In summary, with a Cloud-based Workload Automation solution organisations gain an enterprise solution at a fraction of the traditional cost, with low business risk, and enjoy a faster time to value – up to 40% - and a significantly lower total cost of ownership than an on premise solution.

It's certainly compelling, but what about the concerns our survey responses highlight?

SECURITY AND DATA PROTECTION

Whilst Cloud solutions are nothing new, the mass adoption of SaaS for business critical processes is only just starting to gain momentum in terms of implementation. It's a big change, and often fear comes with change. This was evident in our survey, with almost 50% concerned about both security and data protection in moving Workload Automation to the Cloud.

Commonly, private and public Cloud systems are viewed very differently. There is a perception that use of a public, multi-tenanted Cloud leads to a compromise in security, whereas there is far less resistance to private Cloud solutions where organisations have dedicated environments for their applications and data. This has led to a preference for a hybrid Cloud model, and whilst in some cases it may be an interim step towards full Cloud adoption, generally it doesn't offer organisations the same level of benefits discussed previously.

IT decision makers try to apply old security habits to Cloud technology, with many Cloud technology Vendors failing to educate the difference in development for Cloud applications. The internet may be a hackers dream, but the Cloud is more secure than anything that has come before. Plus SaaS providers have everything to lose if clients' environments are compromised.

CLOUD INDUSTRY FORUM SURVEY 2014 STATISTICS

The Cloud Industry Forum surveyed 250 senior IT and business decision-makers on what they view as inhibitors or key challenges to cloud adoption.

61%

identified security as a leading issue.

54%

identified data privacy as a concern in relation to Cloud adoption.

28%

considered data sovereignty to be a valid concern.

A survey by the Cloud Industry Forum (CIF) had similar results to ours, with security and data protection also being the primary concerns for respondents when it comes to Cloud services. The same survey revealed however that only 2% had actually suffered a Cloud service related breach, revealing that the concern is more about perception than actual risk. Again, it comes down to Cloud vendors being able to re-educate IT decision makers properly. To gain the significant benefits offered by a Cloud solution, organisations need to do their research, be clear of their requirements, and partner with providers that fully understand these requirements, can recommend the right solution to meet their needs, and implement it properly. Certain industries are of course bound by compliance and security regulations, but this doesn't make it impossible for them to gain the benefits of SaaS. In fact, many governing bodies and industry regulators offer excellent advice about Cloud solutions and how organisations should go about it.

PERFORMANCE AND DOWNTIME CONCERNS

Another potential issue that concerns respondents is performance and downtime. Whilst clearly this is something to think about, it can reasonably be argued that these are also issues with on premise solutions. Again, by choosing the right provider for them, organisations can easily overcome this concern, and actually most Cloud providers have far better DR capabilities and resolution teams in place than any single enterprise running their own environment in house.

SINGLE VENDOR LOCK-IN

This is actually less of an issue for SaaS than on premise software, with many offerings charged on a monthly "pay-as-you-use" subscription model, as opposed to hefty annual software maintenance renewals. Plus, as discussed earlier, 77% of respondents cited infrastructure standardisation as a way to increase IT efficiency – the major goal of many IT organisations.

COST OF MIGRATION

As with solution consolidation, migration of an organisations Workload Automation to the Cloud doesn't have to come with a high price tag or pose a risk to the business as long as they chose the right partner. Plus, the reduced management costs and efficiency gains will generally be far greater than cost of migration and implementation, so this must always be a consideration in putting together the business case – which of course the right partner can do for you.

Workload Automation will evolve even faster than previously to keep up with advances in technology.

Organisations will have no choice but to move to an integrated solution to combat complexity and remain competitive.

Whilst integrated solutions can be expensive, the opex savings are compelling.

Cloud-based Workload Automation solutions offer a highly cost-effective alternative.

CONCLUSIONS

As businesses have had to evolve to accommodate a world of ecommerce and Globalisation, scheduling has had to keep pace. It too has evolved from early batch processing, to the advanced Workload Automation solutions we see in today's market. As technology continues to advance, and the integrated nature of business grows exponentially, the ever growing demands placed on Workload Automation will dictate a much faster pace of evolution than the past 20 years.

IT departments will struggle to keep up with these demands, and the continual need to change and adapt to stay ahead of their competitors. This, along with the continual increase in complexity of the integrated infrastructures that IT organisations must manage, and the requirement to be more efficient and "do more with less", will leave IT decision makers with no choice but to move towards a fully integrated Workload Automation solution.

Of course this all comes at a cost, and whilst we are now seeing good signs of economic recovery, many organisations are still suffering from reduced IT budgets and headcount. It is essential however to consider the whole business case and employ a more long-term outlook, taking into account the efficiency gains and reduction in TCO that a consolidated solution offers. Decisions should not be made around capital expenditure alone, but rather the long term benefits that enable business agility and the ability to stay ahead in a tough marketplace.

The more recent arrival of Cloud-based Workload Automation solutions has not only given enterprise organisations another option, but also makes it more accessible to the SME market, to whom high costs and specialist skills requirements have previously made integrated Workload Automation solutions off limits. Whilst it provides the same features, functionality and benefits of an on premise installation, a SaaS solution is far more competitively priced. It delivers a faster time to value, is up and running within minutes, and eradicates deployment and on-going software maintenance costs. Plus, most are priced on a "per job" basis, meaning the solution can be scaled up (or down) in line with business requirements, meaning there is no longer a need to maintain and manage an oversized solution just to account for peak periods. And as some solutions offer comprehensive support as part of the monthly subscription, it negates the need to pay for specialist internal resource, automatically upgrades to new version releases, and allows greater efficiency and agility of the IT organisation.



Cloud “FUD” is often perception as opposed to reality.



Choosing the right partner, and preparation, are key to ensure maximum benefits are gained from Workload Automation.

Cloud services still suffer greatly from fear, uncertainty and doubt however, with security and data protection leading the concerns of IT decision makers. Organisations must consider whether these concerns are reality, or – given the huge advances SaaS technology has made in recent years – perception of reality. Statistics indicate the latter, and SaaS vendors must be proactive in re-educating clients in order to eradicate these fears and incorrect perceptions.

Choosing the right partner is key. Organisations should look to engage with a specialist partner that can understand and assess their current environment and needs. Migration from a multi-tool environment to a consolidated solution is high on the list of IT decision maker concerns – in terms of complexity and cost – but there are Workload Automation specialists in the market that have developed their own intellectual property to combat this issue. By choosing the right partner, organisations can benefit from a solid business case, that identifies the right solution for them and how to get there, and clearly pin-points the benefits it will provide.

IBM TIVOLI WORKLOAD SCHEDULER



Delivers high scalability, availability and performance.



Supports both calendar based and event based Workload Automation.



Provides a single point of control from which to view and manage composite workloads.



Provides open, standards based APIs to extend Workload Automation control to custom and legacy applications.



Leverages a service-oriented architecture based on IBM WebSphere components.



Provides standards based integration with grid and Cloud computing technologies.

ABOUT ELYZIUM

Established in 1998, Elyzium is an IBM Premier Business Partner dedicated to delivering top-quality professional services and enterprise systems management solutions predicated on IBM Tivoli software.

Our area of specialty is Workload Automation solutions. Elyzium is not just the only Partner in the World to have achieved IBM's highest level of deployment accreditation for Tivoli Workload Scheduler – Gold status, but also the first IBM Software as a Service Solution Provider (SSP) for Workload Automation on an international basis.

Elyzium is constantly working towards a strong network of business partnerships and has proven long term relationships with a number of large organisations that specialise in business consulting and systems integration, as well as software vendors. It is Elyzium's goal to provide innovative, cost effective solutions to customers by working in close partnership with these organisations.



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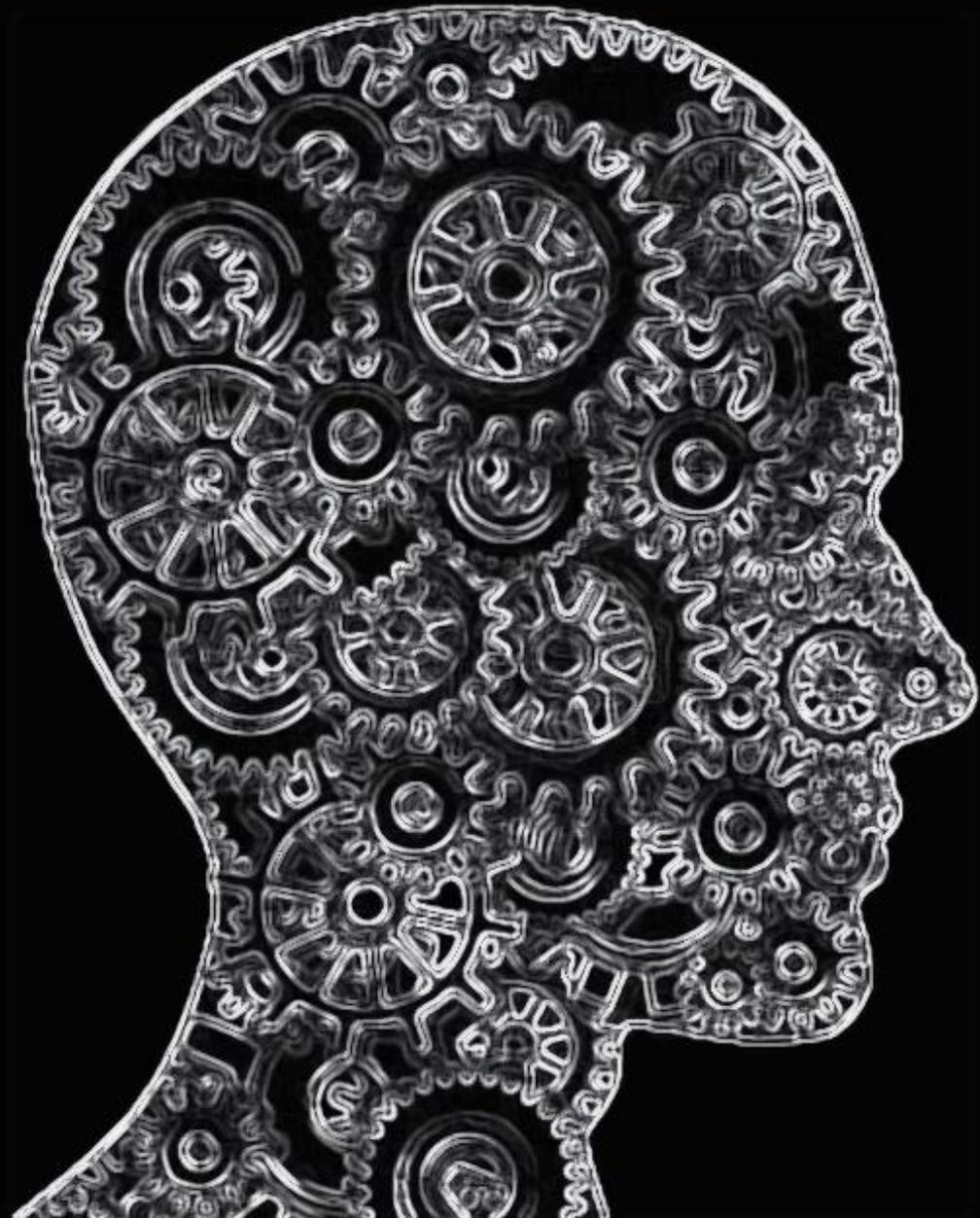
JobExecutor.com is a fully supported, enterprise level Workload Automation solution in the Cloud. By wrapping Elyzium's premium XpertCare support around IBM's Workload Automation SaaS offering (powered by IBM Tivoli Workload Scheduler) as either a standard monitoring service, or an elite, fully managed service, JobExecutor.com seamlessly gels the IBM technologies together for a low monthly subscription, allowing all organisations to invest in Workload Automation, irrespective of company size, budget, and internal skill sets.



Elyzium's Workload Migrator service provides seamless migration from distributed legacy schedulers (including, but not limited to BMC, CA, UC4, Cron, Windows Task Scheduler and Redwood) to IBM Tivoli Workload Scheduler, in a fast, accurate, and highly cost effective manner.



Fully backed by IBM, Elyzium's Workload Assessment provides a complete appraisal of your Workload Automation environment, providing the justification required to move towards a consolidated environment, whilst setting out a clear path to allow you to achieve your goals with no impact to your business.



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