

ACME\_BB

Migration Readiness Assessment Readout & Recommendations

Mon Dec 12 2022

# Overview

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Customer ACME\_BB

Assessment Name Migration Readiness Assessment

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Sponsor Contact N/A

Workshop Date Nov 07 2022

Readout Date Nov 11 2022

Last updated at Nov 30 2022

Created at Nov 20, 2022

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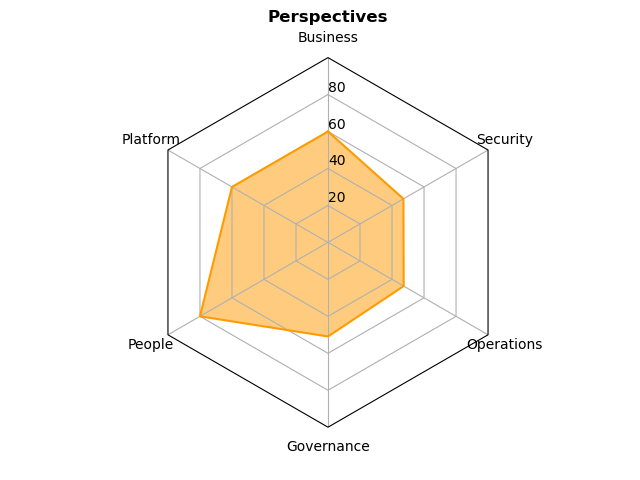
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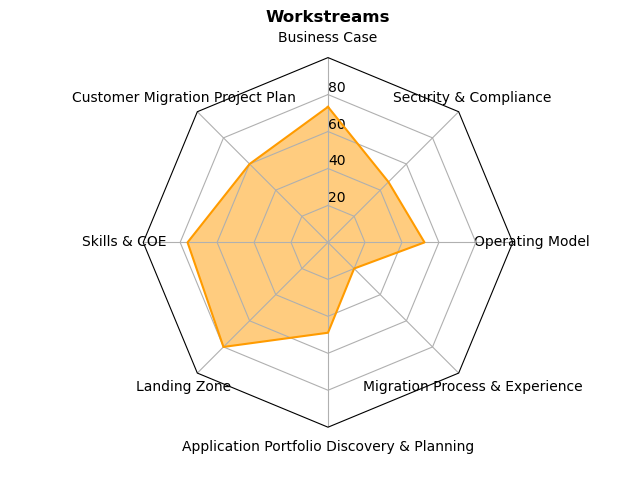
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# MRA2

# Radar Chart

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# MRA2

# Heatmap

|  |
| --- |
| **Operating Model** |
| AVERAGE |
| Current Operations Model |
| Managed Service Provider Identified |
| AMI/Patching |
| Backup |
| Asset Management |
| Config Management & Change Management |
| BCP/DR |
| Service Catalog |
| Cost Management |
| Cloud Ready Operational Processes & Run Books |
| CI/CD Pipelines |
| Incident Response |

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| **Business Case** |
| AVERAGE |
| High Level Business Case |
| Key Stakeholder Sign-off |
| Migration Funding Commitment |
| Specific Migration Workloads Committed |

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| **Customer Migration Project Plan** |
| AVERAGE |
| Determine Delivery Model & Approach |
| Project Management Capability |
| Migration Plan |

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| **Migration Process & Experience** |
| AVERAGE |
| Migration Experience |

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| **Skills & COE** |
| AVERAGE |
| Single Threaded Leader |
| Experience baseline |
| Design or Evolve COE |

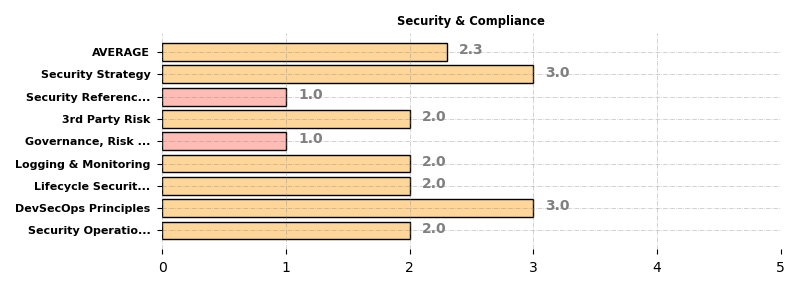
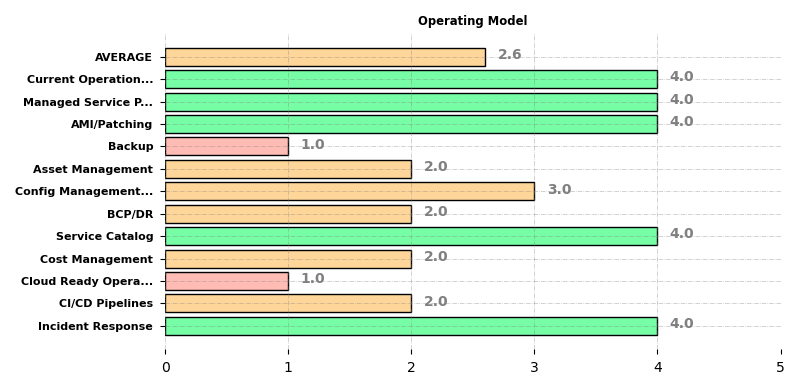
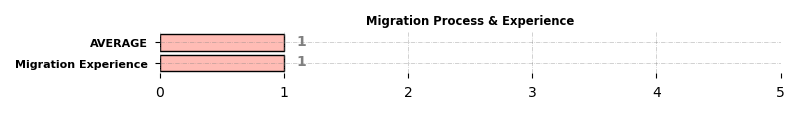
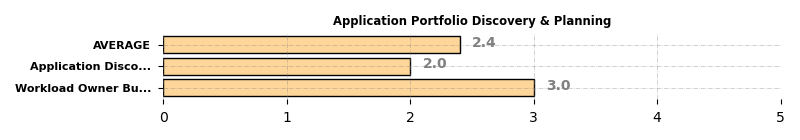
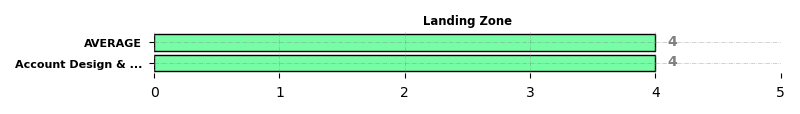
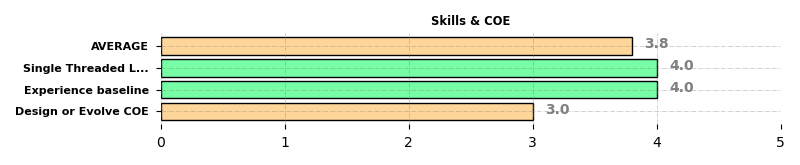
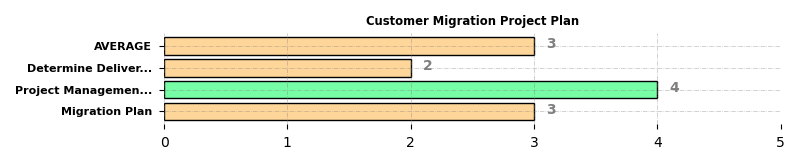
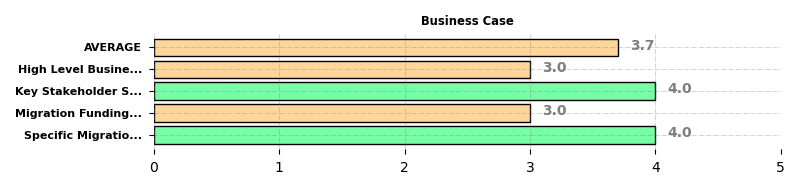
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| **Application Portfolio Discovery & Planning** |
| AVERAGE |
| Application Discovery Data |
| Workload Owner Buy-In or Alignment |

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| **Landing Zone** |
| AVERAGE |
| Account Design & Configuration |

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| **Security & Compliance** |
| AVERAGE |
| Security Strategy |
| Security Reference Architecture |
| 3rd Party Risk |
| Governance, Risk & Compliance |
| Logging & Monitoring |
| Lifecycle Security Capabilities |
| DevSecOps Principles |
| Security Operations Playbook |

# MRA2

# Scores



# MRA2

# Details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Section | Category | Score | Summary Observation | Action |
| Scope | Goals |  |  |  |
|  | Technical |  |  |  |
| Activities | Activity 1 |  |  |  |
|  | Activity 2 |  |  |  |
|  | Activity 3 |  |  |  |
|  | Activity 4 |  |  |  |
| Business | IT Governance | 4 |  |  |
|  | IT Service Delivery Model | 4 |  |  |
|  | Cloud Objectives | 4 |  |  |
|  | Value Management | 3.7 |  |  |
|  | IT Strategy | 4 |  |  |
|  | Cost Management | 2.3 |  |  |
|  | Risk Management | 2 |  |  |
|  | Portfolio Governance | 1 |  |  |
| Platform | Conceptual Architecture | 4 |  |  |
|  | Logical Architecture | 3 |  |  |
|  | Application Migration Patterns | 1 |  |  |
|  | Cloud Design Principles & Patterns | 3 |  |  |
|  | Implementation Architecture | 4 |  |  |
| People | Organizational Structure | 3 |  |  |
|  | Roles & Job Descriptions | 4 |  |  |
|  | Manage Staffing | 4 |  |  |
|  | Organizational Change Management | 4.5 |  |  |
| Governance | Portfolio Management | 1.5 |  |  |
|  | Service Delivery Management | 4 |  |  |
|  | Program & Project Management | 3 |  |  |
|  | Continuous Integration & Continuous Delivery | 4 |  |  |
|  | Process Automation | 4 |  |  |
|  | Quality Management | 1 |  |  |
| Operations | Cloud Service Management | 1.5 |  |  |
|  | Business Continuity Planning | 1.5 |  |  |
|  | Incident & Problem Management | 4 |  |  |
|  | Change & Configuration Management | 3.3 |  |  |
|  | Performance & Operational Health | 2 |  |  |
|  | Asset Management | 2 |  |  |
| Security | Security Strategy | 3.5 |  |  |
|  | Security Reference Architecture | 1 |  |  |
|  | Governance, Risk & Compliance | 1.6 |  |  |
|  | Lifecycle Security Capabilities | 2.5 |  |  |
|  | DevSecOps Principles | 3 |  |  |
|  | Security Operations Playbook | 2 |  |  |
| Optional - VMC | VMWare Cloud |  |  |  |
| Optional - Storage | Storage |  |  |  |
| Optional - Microsoft | Microsoft Overview |  |  |  |
|  | Microsoft Migration Estimate |  |  |  |
| Optional - Mainframe | Mainframe Overview/Inventory (Required) |  |  |  |
|  | Mainframe ROM Sizing Estimate |  |  |  |
|  | Mainframe Pattern & Tool Guidance |  |  |  |
|  | Mainframe Migration Estimate |  |  |  |
|  | Mainframe Natural (if applicable) |  |  |  |
|  | Mainframe Adabas (if applicable) |  |  |  |
|  | Mainframe COBOL,CICS (if applicable) |  |  |  |
|  | Mainframe Security Overview |  |  |  |
|  | Preferred Target Architecture |  |  |  |
|  | IMS (if applicable) |  |  |  |
| Optional - AS/400 | AS400 Overview/Inventory |  |  |  |
|  | Migration ROM sizing estimate |  |  |  |
|  | Migration Pattern & Tool Guidance |  |  |  |
|  | Preferred Target Architecture |  |  |  |
|  | Workloads (optional) |  |  |  |
|  | Security Overview |  |  |  |
| Optional - NetworkTrans | Connectivity to Datacenters |  |  |  |
|  | Connectivity within AWS |  |  |  |
|  | Connectivity to Branches |  |  |  |
|  | Connectivity to Internet |  |  |  |
|  | Network Security |  |  |  |
| Optional - Database | Database Portfolio |  |  |  |
| Optional - Outpost | Outpost | 3.2 |  |  |
| Optional - SAP | SAP |  |  |  |
| Optional - App Modernization | App Modernization |  |  |  |

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# MRA2

# Responses

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Section | Category | # | Question | Response | Comments |
| Scope | Goals | 1 | Describe the scope for this MRA. What is being considered in scope and what is out of scope? |  | O objetivo desse relatório é determinar o nível de compromisso e competência do cliente em ter uma jornada para a núvem AWS, formar um envolvimento mais profundo e criar uma estratégia de migração prática, identificar áreas em que o cliente já tem recursos sólidos e onde é necessário um desenvolvimento adicional para migrar em escala. |
|  | Goals | 2 | What are the organization's target outcomes (business and/or IT) that are in focus for this cloud initiative? What are the primary drivers of these objectives? |  | A ACME busca ganhar agilidade e mais inovação nos negócios enquanto melhora a governança e o gerenciamento de suas cargas de trabalho.  Devido às pressões do mercado, eles estão tentando se reinventar e se concentrar em aprimorar a experiência do cliente por meio da expansão de seus produtos e serviços para atrair um público mais jovem. O escopo está focado no ambiente Windows/Linux, pois a ACME gostaria de reduzir a o seu Data Center em 80% nos próximos 2 anos. A ACME também busca ganhar agilidade e mais inovação nos negócios enquanto melhora a governança e o gerenciamento de suas cargas de trabalho. |
|  | Technical | 3 | How many servers and applications are in scope of this initiative? |  | São 1552 servidores de desenvolvimento, teste e produção. Dentre os quais estão divididos entre servidores de aplicação, servidores de banco de dados, servidores de arquivos e máquinas de virtualização |
|  | Technical | 4 | Do you have workloads that require specific security architecture considerations (for example, PCI, SOC2, NIST, HITRUST, FedRAMP High, CJIS, ITAR, EAR, or others)? |  | Sim. Devido à ACME ser uma instituição financeira, eles precisam cumprir vários regulamentos, desde PCI/DSS até PII regionais específicos. A ACME planeja utilizar a criptografia da camada de aplicativo sempre que possível e aproveitar o IPSEC e o MACSEC em todas as outras instâncias. |
|  | Technical | 5 | Are there application requirements (fault tolerance, performance, resiliency, DR,etc.) that require Multi-AZ or multi-Region architectures? |  | Sim. Devido ao atual modelo descentralizado de operações de TI da ACME, cada equipe tem graus variados de arquiteturas documentadas e objetivos de tempo de recuperação (RTO) e objetivos de ponto de recuperação (RPOs) definidos. A ACME têm uma plataforma de negociação que requer baixa latência para os mercados locais que foram implantados em cada região. Por ser uma instituição financeira, tolerância a falhas, resiliência e recuperação são importantes. |
|  | Technical | 6 | What tools do you use for project management? Specifically, is Jira or Confluence in use, and which teams have been onboarded? Has the Draw.io plugin been activated? |  | O escritório do PMO utiliza ferramentas centralizadas para acompanhar o progresso em todos os projetos. A equipe pratica metodologias ágeis em todos os projetos desde sua criação e a maioria tem certificado Agile Practitioner. |
|  | Technical | 7 | Are mainframe/AS400(IBM I) workloads in scope or potentially in scope? (Additional questions in Optional section) | No |  |
|  | Technical | 8 | Are VMware Cloud workloads being considered as part of this migration? (Additional questions in Optional section) | No |  |
|  | Technical | 9 | Is storage being considered as part of this migration? (Additional questions in Optional section) | Yes | Existem servidores de arquivos Windows e Linux |
|  | Technical | 10 | Are Microsoft workloads being considered as part of this migration? (Additional questions in Optional section) | Yes | Aproximadamente 60% dos servidores são Windows, sendo servidores de aplicação .NET, Banco de dados MS SQL Server e servidores de arquivo |
|  | Technical | 11 | Is network transformation being considered as part of this migration? (Additional questions in Optional section) |  |  |
|  | Technical | 12 | Are databases being considered as part of this migration? (Additional questions in Optional section) |  | Sim. 42 servidores PostgresSQL (linux) e 34 servidores MSSQL Server (windows) |
|  | Technical | 13 | Are on-premise appliances considered in order to meet one of the following requirements : low latency, local processing needs for technical reasons such as data gravity, or data residency? (Additional questions in Optional section) | Yes | A ACME atualmente usa o dispositivo F5 BIG-IP no local para realizar o balanceamento de carga.  Atualmente, eles estão utilizando Fortigate Firewalls. |
|  | Technical | 14 | Are SAP workloads being considered as part of this migration? (Additional questions in Optional Section) | No |  |
|  | Technical | 15 | Are there applications that are part of this migration effort with legacy characteristics that may prevent you from fully leveraging cloud benefits post migration? (Additional questions in Optional Section) | No |  |
| Activities | Activity 1 | 16 | Describe the current strategy, mandate for cloud, and level of commitment and communication (for example, is there a time-based specific value driver, pending datacenter closure, publicly communicated objective, sustainability target, or others?) |  | A ACME gostaria de reduzir o uso do Data Center em 80% nos próximos 2 anos. Buscam ganhar agilidade e mais inovação nos negócios enquanto melhora a governança e o gerenciamento dos seus workloads. |
|  | Activity 1 | 17 | What is the scope and intent of this initiative (for example, lines of business, regions, application types, and/or intent to learn, test, pilot, or accelerate at scale)? |  | Atualmente, a ACME opera em 10 países, com foco na América do Norte e do Sul, Canadá, Austrália e alguns países da Europa. Eles têm Data Centers em cada um desses locais para cumprir os requisitos de Governança local. A nuvem da ACME se concentra apenas na América do Norte, e eles estão procurando expandir esses esforços o mais rápido possível.  A visão de nuvem da ACME é ter a Governança de Infraestrutura de Nuvem e habilitação gerenciada pelo Centro de Excelência em Nuvem existente, as equipes terão a capacidade de gerenciar suas próprias contas dentro dos trilhos de proteção estabelecidos pelo CCOE. |
|  | Activity 2 | 18 | Are there any friction points concerning enterprise, technology, applications, process, or people which may potentially stall this initiative? |  | Como cada BU será responsável por analisar e priorizar os aplicativos que migram para a nuvem, e atualmente ainda não foi definido, isso pode paralisar ou atrasar a migração. Outro ponto é que, cada BU é responsável por sua estratégia e direcionamentos, então existem BUs com time terceirizado e outras BUs com times internos, isso irá gerar mais atenção na parte de comunicação. Outro ponto importante relacionado à comunicação interna é que embora a ACME tenha começado a comunicar seus planos de nuvem, a alta administração deixou isso para as equipes individuais e a mensagem tem sido inconsistente. Portanto, algumas equipes hesitam e não têm certeza do impacto da nuvem em seus aplicativos e no futuro dentro da ACME. |
|  | Activity 2 | 19 | Are there aspects of your organization and culture which you think will help move this initiative forward? |  | Sim. A ACME desenvolverá um processo formal para gerenciar as expectativas das pessoas para a mudança para a nuvem, bem como planejamento de carreira, treinamento e capacitação. A ACME quer criar uma cultura de inovação e atrair os melhores talentos para a organização que tenha experiência anterior em nuvem para reforçar suas equipes. Ao mesmo tempo, quer reter talentos com conhecimento institucional e planeja nivelá-los com o conhecimento de nuvem necessário com base em suas funções específicas |
|  | Activity 3 | 20 | Do you have a defined target to shift the operating model for infrastructure, operating systems, or platforms in this move to cloud? |  | Sim. O objetivo é redução de custos, reduzindo a utilização de Data Center local, escalabilidade, ganhar agilidade em inovação e governança dos workloads |
|  | Activity 4 | 21 | Who are the members of the current cloud team? What are their roles, responsibilities, and authorities? Does your cloud team have a strong mix of different perspectives? |  | Existe o responsável pela mudança e o patrocinador executivo que é o CTO do Centro de Excelência em Nuvem. Equipes de testadores em cada projeto e suas funções garantem a padronização dos testes em todos os projetos Equipe de desenvolvimento, recebendo treinamentos, mas sem experiência anterior em migração de aplicativos Equipe de segurança, cujo papel é garantir que um padrão de segurança esteja em conformidade e seja documentado. |
| Business | IT Governance | 22 | Is your IT organization run as a federation of groups or as a centralized organization? The more distributed it is, the more difficult migration coordination will be, assuming the scope spans these distributed groups. | 4 | A ACME possui uma equipe de TI centralizada responsável pela governança de toda a organização. Porém, cada unidade de negócios tem seu próprio CIO e CTO responsável pela estratégia, iniciativas de nuvem e direção para a unidade específica. Ou seja, a ACME vem trabalhando na centralização de algumas funções para utilizar de forma eficiente os recursos evitando tempo ocioso e implementando alguma padronização em termos de processos de DevOps, Arquitetura, Documentação e Segurança. No entanto, eles planejam permitir que as unidades de negócios continuem tomando decisões sobre como desejam operar o ambiente e só precisariam consumir as funções centralizadas estabelecidas para trabalho de projeto, revisão de arquitetura e segurança. |
|  | IT Service Delivery Model | 23 | Do you have one or more managed service providers who handle the workloads in scope for migration or modernization? What is their current role -- application operator and infrastructure operations? Is it clear what their roles will be post migration? Is there a desire to alter the insourcing/outsourcing philosophy? | 4 | A BU de Seguros decidiu usar um modelo de terceirização. Eles terceirizaram todas as funções relacionadas a TI para um integrador de sistemas global. A seleção do Global Systems Integrator é decidida pela equipe central para garantir o melhor preço e consistência em toda a organização. |
|  | Cloud Objectives | 24 | Have you defined and committed specific workloads for the initiative? Is the scope documented and communicated to all stakeholders? Are there defined first-movers or pilot applications? Do the initial workloads help accelerate attainment of your sustainability objectives? | 4 |  |
|  | Value Management | 25 | Do you have a business case that articulates the cloud program objectives around all areas of value, including sustainability improvements? Has the business case been communicated to all leadership stakeholders? | 4 | A ACME está em processo de conclusão de um caso de negócios para a mudança para a nuvem e concluiu 80% com ROI ainda a ser determinado. |
|  | Value Management | 26 | Do all your key stakeholders support the business case and the commitment to migration? Example stakeholders: CFO, COO, CISO, and so on. | 4 | Conselho de Administração e todas as Unidades de Negócios estão alinhadas à migração para a nuvem, mas aguardam o ROI de cada Unidade de Negócios para definir claramente seus orçamentos e expectativas de possíveis economias. |
|  | Value Management | 27 | Have you made a funding commitment for your resources and AWS resources to work on migration or modernization? Has the funding been reviewed by AWS or a partner? | 3 | A Diretoria se comprometeu a garantir que o financiamento necessário esteja disponível para projetos de nuvem e também pretende aumentá-lo com mecanismos de financiamento de fornecedores. |
|  | IT Strategy | 28 | Does your IT strategy explicitly state the cloud's role and how it is tied to your business objectives? Where do you want to invest in infrastructure innovation vs. application outcomes? | 4 |  |
|  | Cost Management | 29 | How will you allocate and manage cloud costs? Will it be through centralized billing, or bill back or show back to application teams? What is your current practice for on-premises systems? | 1 | A ACME implementará uma metodologia de reembolso e cada equipe será responsável por seu próprio orçamento para os recursos consumidos na nuvem |
|  | Cost Management | 30 | Are your cost reporting requirements defined and documented? Do AWS run costs need to be ingested into your accounting and cost reporting systems? Are requirements for financial governance (allocation, chargeback, showback) documented? | 2 |  |
|  | Cost Management | 31 | How familiar are you with the controls that need to be in place with your local team to control and monitor your AWS spend? What is your local teams’ level of cloud finance and economics experience? | 3 |  |
|  | Cost Management | 32 | Does your business case account for the facility closure(s) and asset liquidation anticipated with going off premises? Is there a plan and owner for this IT infrastructure disposal project? | 3 |  |
|  | Risk Management | 33 | Security-sensitive customers often have a third-party risk assessment process to practice continuous due diligence on their information supply chain. Do you have third-party risk certifications? If so, has AWS been verified as a supplier? | 2 | A equipe de segurança central da ACME contratou um auditor terceirizado para avaliar o ambiente e fornecerá um relatório com recomendações iniciais nas próximas 3 semanas. O auditor avaliou apenas o acesso ao ambiente a partir da internet pública para garantir que a ACME não esteja expondo informações do cliente |
|  | Portfolio Governance | 34 | Have you identified the owners of workloads targeted for cloud migration or modernization, and are there clear lines of accountability and responsibility for those owners? Have those owners been bought in to the migration program? | 1 |  |
| Platform | Conceptual Architecture | 35 | Do you have standard architectures? Are they consistently applied to applications and services in your existing environments and AWS? Is there a defined role and individual responsible for enforcing these? | 4 | ACME estabeleceu um conselho de arquitetura de soluções centrais há um ano e, desde então, padronizou a documentação em um repositório central para todos os aplicativos implantados no ano passado. |
|  | Logical Architecture | 36 | Do you have documented data flow and integration points for applications in scope? Does this documentation reflect performance, utilization, and dependencies in addition to data flow? | 3 | Cada equipe tem graus variados de arquiteturas documentadas e objetivos de tempo de recuperação (RTO) e objetivos de ponto de recuperação (RPOs) definidos, e as equipes foram encarregadas de atualizar sua documentação de aplicativos no repositório centralizado. |
|  | Application Migration Patterns | 37 | Do you have experience migrating or modernizing workloads in the cloud? Have you leveraged automated migration tools such as CloudEndure? | 1 | A equipe técnica não tem experiência anterior em migração de aplicativos. |
|  | Cloud Design Principles & Patterns | 38 | Have you invested in any cloud-native architectures or DevOps practices? Are those responsible for running the services involved in building the service? | 3 |  |
|  | Implementation Architecture | 39 | How closely do your current AWS accounts and foundational architecture follow AWS best practices around security, account management/governance, and operations, and align with workloads in scope of this initiative and future growth? Do you use standardized templates for infrastructure services, and manage infrastructure as code with full lifecycle management? | 4 | A ACME criou uma Landing Zone rudimentar na AWS e automatizou a solicitação e o provisionamento de contas da AWS para equipes, as soluções usam o AWS Organizations e as políticas de controle de segurança (SCP) para gerenciar algumas configurações básicas nas contas da equipe. O ambiente Landing Zone é integrado ao AD local por meio de uma instância hospedada na nuvem. A ACME requer alguma assistência para refinar o processo e recomendações sobre outras práticas recomendadas, pois não têm certeza de que protegeram totalmente o ambiente. |
| People | Organizational Structure | 40 | Has a dedicated cloud team been formed with formalized role definitions and strong support and governance from the CIO? Is your cloud team inclusive of the various business and IT views of the company (such as regional representation, line-of-business representation, and so on)? | 3 |  |
|  | Roles & Job Descriptions | 41 | Have the roles and responsibilities of operations or other non-CoE teams been clarified or redefined in the cloud context? | 4 |  |
|  | Manage Staffing | 42 | Have you assigned a single-threaded senior leader (direct report to CIO or SVP) to oversee the cloud initiative or program? Have you engaged continuous improvement experts to assist with the change? | 4 | Atualmente o programa pertence ao Cloud CCOE que possui seu próprio CTO responsável pela mudança e o patrocinador executivo. |
|  | Organizational Change Management | 43 | Have you communicated the migration/modernization goals and the corresponding benefits, priorities, and timeline to the entire organization? Have you defined performance goals for leaders who are involved in the cloud transformation? Have you cascaded these performance goals to the managers of your organization? | 4 | Embora tenham começado a comunicar seus planos de nuvem, a alta administração deixou isso para as equipes individuais e a mensagem tem sido inconsistente. Portanto, algumas equipes hesitam e não têm certeza do impacto da nuvem em seus aplicativos e no futuro dentro da ACME |
|  | Organizational Change Management | 44 | Have you identified the cloud skills and competencies to enable resources in your organization? Has a training plan been established and rolled out? | 5 |  |
| Governance | Portfolio Management | 45 | Do you have an up-to-date and reliable application inventory with accurate metadata on the applications? Where is this information stored and how is it maintained? | 2 | Devido ao atual modelo descentralizado de operações de TI da ACME, cada equipe tem graus variados de arquiteturas documentadas e objetivos de tempo de recuperação (RTO) e objetivos de ponto de recuperação (RPOs) definidos, e as equipes foram encarregadas de atualizar sua documentação de aplicativos no repositório centralizado. |
|  | Portfolio Management | 46 | In order to produce accurate estimates of migration costs, it is important to have good baseline data: Do you have a complete and accurate accounting and configuration data set? Do you have the ability to report and track on all resources deployed in the cloud? | 2 |  |
|  | Portfolio Management | 47 | Do you have a DB migration and modernization strategy that accounts for your existing vendor relationships and licensing agreements? Is your IT spend for DB activities well understood and in line with expectations? | 1 |  |
|  | Portfolio Management | 48 | Do you have an application migration and modernization strategy that accounts for the rearchitecting of monolithic, legacy, or self-managed applications? Is there a re-architecture strategy in place to leverage modern cloud native paradigms such as server-less to improve agility / lower costs? Are there any significant/foundational tech decisions/changes that are currently under consideration? | 1 |  |
|  | Service Delivery Management | 49 | Do your infrastructure, applications and services have well-defined SLAs and OLAs? Have you examined support options and selected an AWS or third-party support option that considers your tolerance for downtime and vendor responsiveness? | 4 |  |
|  | Program & Project Management | 50 | Do you have mature and disciplined project and program management capabilities? What type of project management methodologies do you use (for example, agile, scrum, waterfall)? | 4 | A ACME possui um escritório de gerenciamento de projetos (PMO) bem estabelecido com processos e procedimentos estabelecidos. A equipe pratica metodologias ágeis em todos os projetos desde sua criação e a maioria é certificado de Agile Practitioner. Projetos que exigem qualquer desenvolvimento utilizam o escritório do PMO para todos os projetos de entrega e cada equipe de entrega tem um standup diário e um scrum master atribuído. O escritório do PMO utiliza ferramentas centralizadas para acompanhar o progresso em todos os projetos. |
|  | Program & Project Management | 51 | Have you determined the migration or modernization delivery partner and approach? | 2 |  |
|  | Program & Project Management | 52 | Do you have a detailed cloud migration or modernization plan? Has it been communicated to the impacted workload owners? | 3 |  |
|  | Continuous Integration & Continuous Delivery | 53 | Do you apply CI/CD or application lifecycle management (ALM) practices across the application portfolio? Do you have DevOps capabilities and automated deployment and/or automated builds? How are these releases integrated with your change management process? | 4 |  |
|  | Process Automation | 54 | Do you leverage code to instantiate standard architectures? Do you have a service catalog that allows users to see and request service offerings? Is your infrastructure managed through coding or scripting frameworks? Are your configuration management systems updated as changes occur in the environment? | 4 | A ACME tem usado o Terraform nos últimos anos para implantar infraestrutura no local e em seu ambiente da AWS. Eles criaram uma Landing Zone rudimentar na AWS e automatizaram a solicitação e o provisionamento de contas da AWS para equipes, as soluções usam o AWS Organizations e as políticas de controle de segurança (SCP) para gerenciar algumas configurações básicas nas contas da equipe. |
|  | Quality Management | 55 | Do you have automated unit or product testing across key applications or critical functionality? | 1 |  |
| Operations | Cloud Service Management | 56 | Do you have well-documented operational processes and runbooks? Have your operational processes and runbooks been tailored to AWS? | 1 |  |
|  | Cloud Service Management | 57 | Do you test your operational capabilities at a regular cadence to ensure that people, processes, and tools are being tailored to AWS (chaos testing)? | 2 |  |
|  | Business Continuity Planning | 58 | Has your business continuity plan been adjusted or enhanced to account for cloud capabilities? | 2 | A ACME começou a avaliar como garantir RPO e RTO na nuvem aproveitando os novos recursos de nuvem e planejam implementar infraestrutura avançada para DR na nuvem. Os fornecedores de suporte de terceiros e as BUs definiram e documentaram SLAs e OLAs e devem permanecer os mesmos no ambiente de nuvem. |
|  | Business Continuity Planning | 59 | Have your backup processes been tailored to take advantage of AWS storage services (such as Amazon S3)? | 1 |  |
|  | Incident & Problem Management | 60 | Have your incident and problem management processes been adjusted for infrastructure and services running in the cloud? | 4 | A ACME utiliza o Service Now para todas as solicitações de serviço e ainda precisa implementar a integração com o ambiente da AWS. Toda nova infraestrutura e solicitação de projeto são rastreadas pelo sistema e a integração para novas contas na AWS foi estabelecida. A integração adicional será construída assim que os scripts do Terraform forem validados e a Segurança tiver assinado os scripts. Eles também rastreiam patches e falhas automatizados por meio do ServiceNow e analisam o uso dos serviços da AWS para executar patches na nuvem e torná-los parte do script de provisionamento de contas. |
|  | Change & Configuration Management | 61 | Have your change and configuration management processes been adjusted for cloud infrastructure and applications (for example, usage of Amazon Machine Images (AMIs) and golden AMIs)? | 1 |  |
|  | Change & Configuration Management | 62 | Do you have a code deployment policy tailored to AWS application stacks (for example, a CI/CD pipeline tailored to AWS)? | 5 | Desde o início da adoção da AWS, a ACME usa AWS CodePipeline, CodeBuild, CodeDeploy e Bitbucket para hospedar e gerenciar implantações de código. Cada equipe de desenvolvimento é responsável por seu próprio pipeline e deve utilizar a infraestrutura como código sempre que possível. |
|  | Change & Configuration Management | 63 | Do you currently have automated patching capabilities? Do you have a patching approach tailored to managing instances in AWS? | 4 | A ACME rastreia patches e falhas por meio do ServiceNow e analisam o uso dos serviços da AWS para executar patches na nuvem e torná-los parte do script de provisionamento de contas. |
|  | Performance & Operational Health | 64 | Do your performance and operational health dashboards include cloud-based infrastructure and applications? Which tools or capabilities exist for logging, aggregating logs, and log analysis? Which tools are used for monitoring and performance management? Do you utilize any synthetic transactions and monitoring capabilities? | 2 | A ACME está atualmente usando o monitoramento centralizado fornecido pelo Splunk. |
|  | Asset Management | 65 | If you use an IT Service Management tool such as ServiceNow, do you have an integration strategy defined with AWS services? | 3 |  |
|  | Asset Management | 66 | Do you have a tagging strategy (allocating the cost for each line of business) defined and enforced for AWS resources? Do you understand how it helps control and monitor AWS spend? | 1 |  |
| Security | Security Strategy | 67 | Have your security policies been updated to accommodate the usage of AWS, and are they aligned to the operating model? | 3 | A equipe de segurança da ACME pediu para se envolver em qualquer projeto de nuvem futuro para garantir que um padrão de segurança, ainda a ser documentado, esteja em conformidade e foi encarregado de supervisionar todas as discussões. O CISO da ACME leva em consideração que a abordagem de nuvem muda a maneira como a segurança é tratada e está aberta a sugestões, bem como a alterações de políticas e procedimentos para aproveitar ao máximo todos os recursos da nuvem. O CISO da ACME afirmou que a nuvem deve permitir um melhor gerenciamento da postura de segurança e procurar aprimorar suas ferramentas e processos atuais e avaliará todas as sugestões por meio do conselho de segurança e governança utilizando os processos existentes. |
|  | Security Strategy | 68 | Has your security leadership (CISO or equivalent) signed off on AWS adoption, and have they provided input to migration/modernization discussions? | 5 | O CISO da ACME afirmou que a nuvem deve permitir um melhor gerenciamento da postura de segurança e procurar aprimorar suas ferramentas e processos atuais e avaliará todas as sugestões por meio do conselho de segurança e governança utilizando os processos existentes. |
|  | Security Strategy | 69 | Do you have clearly defined security, risk, and compliance (SRC) governance guiding principles to oversee the implementation of the cloud strategy? | 3 |  |
|  | Security Strategy | 70 | Has your infrastructure security approach been modified for AWS? This includes creating custom templates to configure AWS services to meet requirements, implementing security architecture patterns and security operations plays as code, crafting custom security solutions from AWS services, using patch management strategies like blue/green deployments, reducing the exposed attack surface, and validating the efficacy of deployments. | 3 | A equipe de segurança central da ACME contratou um auditor terceirizado para avaliar o ambiente e fornecerá um relatório com recomendações iniciais nas próximas 3 semanas. O auditor avaliou apenas o acesso ao ambiente a partir da internet pública para garantir que a ACME não esteja expondo informações do cliente. A ACME está aberta a sugestões sobre como proteger e monitorar ainda mais o ambiente de nuvem. |
|  | Security Reference Architecture | 71 | Have your identity and access management approach and integration been completed with AWS accounts? This would include entitlement mapping/grants/audit, secret material management, enforcing separation of duties and least privilege access, just-in-time privilege management, and reducing reliance on long-term credentials. | 1 |  |
|  | Governance, Risk & Compliance | 72 | Control framework mapping (assurance framework and security requirements) helps you gain a better understanding of security capabilities provided by AWS. Do you understand AWS control framework mapping and the shared responsibility model? | 2 |  |
|  | Governance, Risk & Compliance | 73 | Do you have a risk framework such as the NIST CSF or ISO 31000:2018 that you are applying to your cloud adoption (processes associated with Security Steering Committee, IT Governance Board, etc.)? Are there any gaps in oversight? | 2 |  |
|  | Governance, Risk & Compliance | 74 | Is the organization's business environment well understood, prioritized, and incorporating security risk to critical functions and dependencies for delivery of services? | 1 |  |
|  | Governance, Risk & Compliance | 75 | Are you able to adjust the SRC risk appetite and SRC risk tolerance levels for your cloud initiative(s) to meet your business goals? Can you share the methodology for adjusting risk tolerance? | 1 |  |
|  | Governance, Risk & Compliance | 76 | Do you currently leverage a framework/methodology to evaluate criteria such as policy, regulation, and performance to make decisions? | 2 |  |
|  | Lifecycle Security Capabilities | 77 | How do you currently control ingress/egress from your corporate network, and do you use any network appliances? | 1 | Atualmente, a ACME está utilizando Fortigate Firewalls no local e, por segurança, desejam criar um ponto central de entrada e saída para todos os serviços em nuvem para inspeção de segurança central. |
|  | Lifecycle Security Capabilities | 78 | Have you determined how to leverage the encryption in transit and encryption at rest capabilities of AWS? Will AES-256 satisfy your encryption at rest requirements? | 4 | A equipe de segurança também adotou uma estratégia de criptografar tudo implantado na nuvem e isso também se estende à camada de rede. A ACME planeja utilizar a criptografia da camada de aplicativo sempre que possível e aproveitar o IPSEC e o MACSEC em todas as outras instâncias. |
|  | DevSecOps Principles | 79 | Are your security capabilities automatically implemented through automation and DevOps capabilities? | 3 | A ACME vem trabalhando na centralização de algumas funções para utilizar de forma eficiente os recursos, evitando tempo ocioso e implementando alguma padronização em termos de processos de DevOps, Arquitetura, Documentação e Segurança |
|  | Security Operations Playbook | 80 | Are your cloud security operations and processes tested? | 2 |  |
| Optional - VMC | VMWare Cloud | 81 | Are you currently a “VMware Shop” or using vSphere for virtualization? |  |  |
|  | VMWare Cloud | 82 | Is accelerating the planning, migration, or time-to-value of your cloud journey essential to your success to meet critical migration deadlines? |  |  |
|  | VMWare Cloud | 83 | With your transition to the cloud, is it important to maintain skillsets and operations in an effort to manage risk, lower costs, and reduce disruption? |  |  |
|  | VMWare Cloud | 84 | Does your cloud migration include Independent Software Vendor (ISV) solutions that are supported on vSphere, but not EC2? |  |  |
|  | VMWare Cloud | 85 | Does your cloud migration include workloads that require GxP, PCI, HIPAA, GDPR, FedRAMP, or other certifications? Would it be beneficial to avoid the time and cost of re-certification/validation? |  |  |
|  | VMWare Cloud | 86 | Are you currently using any vRealize Suite products for your current operations? |  |  |
|  | VMWare Cloud | 87 | Are you using any other VMware Product Tools to compliment or enhance your current vSphere implementation? |  |  |
| Optional - Storage | Storage | 88 | What on-premises storage workloads you are considering for AWS migration? |  |  |
|  | Storage | 89 | What is the total capacity of storage workloads for migration to AWS (TB)? |  | 3 |
|  | Storage | 90 | What on-premises Applications are accessing the above storage workloads? |  | Sem informação |
|  | Storage | 91 | Are there any regulatory, organizational data storage compliance considerations after migration to AWS? |  | Sem informação |
|  | Storage | 92 | What infrastructure is used for Backups? |  | Sem informação |
|  | Storage | 93 | Do you have storage based DR/Replication setup? |  | Sem informação |
| Optional - Microsoft | Microsoft Overview | 94 | What are the business functions and domains supported by the Microsoft Workload(s)? |  | Servidores de aplicações, file servers e bancos de dados |
|  | Microsoft Overview | 95 | What are the customer's key pain points or modernization drivers for their Microsoft Workloads? (Example: Cost, Agility)? |  |  |
|  | Microsoft Overview | 96 | Who is operating or managing the customer's Windows-environment and licensing? (Example: in-house, specific GSI)? |  | Sem informação |
|  | Microsoft Overview | 97 | How many of the servers are running on legacy Windows operating systems (2008 & older)? |  | Sem informação |
|  | Microsoft Overview | 98 | Does the customer have a clear understanding of their resource (CPU, memory, IOPS, throughput) utilization? |  | Não. Temos apenas informações de CPU e memória dos servidores. |
|  | Microsoft Overview | 99 | How is the customer virtualized on premises today, VMware/Hyper-V/Bare metal? |  | Sim |
|  | Microsoft Overview | 100 | Does the customer have a clear mapping of application dependencies? |  | Não |
|  | Microsoft Overview | 101 | What is the main development language for applications? C#? .NET (Core or Framework)? |  | 658 servidores de aplicação rodando .NET 645 servidores de aplicação rodando JAVA |
|  | Microsoft Overview | 102 | What are the main version(s) of SQL Server the customer is using in production? Main versions of SQL Server for dev/test environments? |  | Sem informação |
|  | Microsoft Overview | 103 | Does the customer want to deploy a new AWS-based Active Directory environment, or extend their existing on-premises AD to AWS? |  | Estender o AD local |
|  | Microsoft Migration Estimate | 104 | Has the customer leveraged the Optimization and Licensing Assessment (OLA) program? |  | Sem informação |
|  | Microsoft Migration Estimate | 105 | How many Windows servers are in scope of migration? |  | 876 |
|  | Microsoft Migration Estimate | 106 | How many Windows servers are production vs. dev/test? |  | DEV: 152 Test/QA: 157 PROD: 567 |
|  | Microsoft Migration Estimate | 107 | Does the scope of migration include SQL Server? If yes, how many databases? |  | Sim. 74 Servidores. Quantidade de bancos de dados desconhecida |
|  | Microsoft Migration Estimate | 108 | Does the customer want to bring their own Windows Server licenses (BYOL) to Dedicated Hosts or leverage license-included options on shared tenancy EC2? |  | No |
|  | Microsoft Migration Estimate | 109 | Does the customer want to bring their own SQL Server licenses (BYOL) to Amazon EC2 or consider license included options on Amazon EC2 or Amazon RDS? |  | No |
|  | Microsoft Migration Estimate | 110 | If customer is considering BYOL for SQL Server, do they have active Software Assurance (SA) on those SQL Server licenses? |  |  |
|  | Microsoft Migration Estimate | 111 | What is the average CPU/RAM per VM? |  |  |
|  | Microsoft Migration Estimate | 112 | What is the storage allocated for the scope of migration? How much is used vs free? |  | 345TB |
| Optional - Mainframe | Mainframe Overview/Inventory (Required) | 113 | What are the business functions and domains supported by the mainframe? |  |  |
|  | Mainframe Overview/Inventory (Required) | 114 | What are the customer mainframe key pain points or modernization drivers? (Example: Cost, Agility)? |  |  |
|  | Mainframe Overview/Inventory (Required) | 115 | Do you have a compelling event or a target date or deadline for the mainframe modernization? |  |  |
|  | Mainframe Overview/Inventory (Required) | 116 | If any, what is the mainframe contract renewal scheduled date? |  |  |
|  | Mainframe Overview/Inventory (Required) | 117 | What is the overall mainframe annual cost (excluding personnel cost)? |  |  |
|  | Mainframe Overview/Inventory (Required) | 118 | Who is operating or managing the customer mainframe (Example: in-house, specific GSI)? |  |  |
|  | Mainframe Overview/Inventory (Required) | 119 | Who is maintaining and developing the mainframe applications (Example: in-house , specific GSI)? And what is the size of the team? For example, number of Full Time Equivalent (FTE) developers? |  |  |
|  | Mainframe Overview/Inventory (Required) | 120 | How many physical mainframe's machines are there, and what are their model number(s) and geographical location (including manufacturer)? |  |  |
|  | Mainframe Overview/Inventory (Required) | 121 | What is the mainframe operating system (Example: IBM z/OS)? |  |  |
|  | Mainframe Overview/Inventory (Required) | 122 | What are the mainframe transaction managers, data stores, and middleware used (Example: CICS, VSAM, DB2, MQ)? |  |  |
|  | Mainframe Overview/Inventory (Required) | 123 | How many MIPS is the mainframe installed for? |  |  |
|  | Mainframe Overview/Inventory (Required) | 124 | What are the average consumed MIPS per application? |  |  |
|  | Mainframe Overview/Inventory (Required) | 125 | What are the programming languages used in the environment (Example: COBOL)? |  |  |
|  | Mainframe Overview/Inventory (Required) | 126 | How many lines of code does the mainframe workload have in total & breakup between the programming language (Example: COBOL 4 MLOC, REXX 0.5MLOC)? |  |  |
|  | Mainframe Overview/Inventory (Required) | 127 | What are the mainframe third-party software or software packages required by the mainframe workload (if any)? |  |  |
|  | Mainframe Overview/Inventory (Required) | 128 | How much disk space is used by the workload business data (Example: 1.5 TB)? |  |  |
|  | Mainframe Overview/Inventory (Required) | 129 | What TN3270 software do you currently use? |  |  |
|  | Mainframe ROM Sizing Estimate | 130 | What are the specific names of all the environments in scope for migration (Prod, Test, Dev…)? |  |  |
|  | Mainframe ROM Sizing Estimate | 131 | What is the overall MIPS consumption breakdown between Batch vs. Online vs. Database (For example, Batch: 40%, Online: 35%, Database: 25%)? MIPS should include GCP + zAAP + zIIP MIPS altogether. |  |  |
|  | Mainframe ROM Sizing Estimate | 132 | Is the MIPS value provided (above) measured at capacity or an average? |  |  |
|  | Mainframe ROM Sizing Estimate | 133 | What is the monthly average MIPS usage for the Online transactions within the OLTP (OnLine Transaction Processing) (If available, provide MIPS distribution between programs vs. database)? |  |  |
|  | Mainframe ROM Sizing Estimate | 134 | What is the monthly average MIPS usage for the Batch programs (If available, provide MIPS distribution between programs vs. database)? |  |  |
|  | Mainframe ROM Sizing Estimate | 135 | What is the monthly average MIPS usage for the Database subsystems (Database STC consumption)? |  |  |
|  | Mainframe ROM Sizing Estimate | 136 | How many separate application environment are there (For example number of CICS regions hosting distinct applications)? |  |  |
|  | Mainframe ROM Sizing Estimate | 137 | How many separate database environments are there (For example number of DB2 subsystems hosting distinct databases)? |  |  |
|  | Mainframe ROM Sizing Estimate | 138 | What are the average number of hours per day this environment must be up and running (versus can be shut down)? |  |  |
|  | Mainframe ROM Sizing Estimate | 139 | What is the disk uncompressed hot storage used for the databases and business data files (GB)? |  |  |
|  | Mainframe ROM Sizing Estimate | 140 | What is the disk uncompressed cold storage used for configuration, logs, dumps, unloads, etc (GB)? |  |  |
|  | Mainframe ROM Sizing Estimate | 141 | What is the disk total I/O rate per month? |  |  |
|  | Mainframe ROM Sizing Estimate | 142 | What is the tape total uncompressed storage used (TB), breakdown by HSM (Hierarchical Storage Management) migrate / SMS (Storage Management Subsystem) and backup (For example, 10TB HSM migrate/SMS, 20TB backup)? |  |  |
|  | Mainframe ROM Sizing Estimate | 143 | What is the tape uncompressed storage retrieval per month (TB), breakdown by HSM migrate/SMS and backup (For example, 10TB HSM migrate/SMS, 2TB backup)? |  |  |
|  | Mainframe ROM Sizing Estimate | 144 | How much data is transferred out of the mainframe per month (GB; Amount of data transferred out of the legacy environment back to distributed systems. Any data; any file; any transaction; any report; any response. Everything altogether)? |  |  |
|  | Mainframe ROM Sizing Estimate | 145 | What is the projected MIPS growth over the next 3 years (organic growth)? |  |  |
|  | Mainframe ROM Sizing Estimate | 146 | If SCRT is being used by the customer for an IBM mainframe, Sub-Capacity Reporting Tool (SCRT) report for the last 3 months? |  |  |
|  | Mainframe ROM Sizing Estimate | 147 | How much percentage of the compute, storage, database, and networking should be considered for the Dev evironment? |  |  |
|  | Mainframe ROM Sizing Estimate | 148 | How much percentage of the compute, storage, database, and networking should be considered for the Test environment? |  |  |
|  | Mainframe Pattern & Tool Guidance | 149 | Describe the short-term and long-term business goals or benefits expected from modernization, along with any desired timeline? |  |  |
|  | Mainframe Pattern & Tool Guidance | 150 | Describe the short-term and long-term IT goals or benefits expected from modernization, along with any desired timeline? |  |  |
|  | Mainframe Pattern & Tool Guidance | 151 | Describe workload description and scope? |  |  |
|  | Mainframe Pattern & Tool Guidance | 152 | Describe the current workload pain-points, challenges, risks or business drivers for modernizing it? |  |  |
|  | Mainframe Pattern & Tool Guidance | 153 | Describe if you own and have access to the source code for all languages of the workload? |  |  |
|  | Mainframe Pattern & Tool Guidance | 154 | Describe if there are test cases, scripts, tools and plans available for the uses-cases of the workload? |  |  |
|  | Mainframe Pattern & Tool Guidance | 155 | Please provide link(s) to current state architecture diagrams. |  |  |
|  | Mainframe Pattern & Tool Guidance | 156 | List all components involved in executing the workload potentially including relevant application names, program names, language used, middleware, subsystem names, etc.? |  |  |
|  | Mainframe Pattern & Tool Guidance | 157 | List all users or client servers requiring access to the workload? |  |  |
|  | Mainframe Pattern & Tool Guidance | 158 | List the utilities, job scheduler and dependencies used by batch jobs and programs? |  |  |
|  | Mainframe Pattern & Tool Guidance | 159 | List key performance metrics for the workload such as number of concurrent users, peak transactions per second, average response time? |  |  |
|  | Mainframe Pattern & Tool Guidance | 160 | List communication flows involved in executing the workload describing protocols, interfaces, origins and destinations, and including communication with users/clients, with external systems, and with dependencies? |  |  |
|  | Mainframe Pattern & Tool Guidance | 161 | What mainframe printing facilities are utilized? (e.g., standard mainframe batch, online terminal printers, 3P output management tools, etc.)? |  |  |
|  | Mainframe Migration Estimate | 162 | Provide additional details about the programs: (Fill in Mainframe Natural or Mainframe COBOL,CICS Tabs if applicable;) |  |  |
|  | Mainframe Migration Estimate | 163 | What are the databases used in the environment (e.g: DB2, IMS DB, VSAM, etc..)? |  |  |
|  | Mainframe Migration Estimate | 164 | Provide additional details about the database environments: (Fill in Mainframe Adabas Tab if applicable;) |  |  |
|  | Mainframe Migration Estimate | 165 | Provide details of usage of Assembler/REXX/CLIST |  |  |
|  | Mainframe Migration Estimate | 166 | Approximately, how many VSAM (Virtual Storage Access Method) single/multi view files exists? |  |  |
|  | Mainframe Migration Estimate | 167 | Number of Base GDGs |  |  |
|  | Mainframe Migration Estimate | 168 | Number of Sequential files |  |  |
|  | Mainframe Migration Estimate | 169 | What are the third party applications where customer does not have full access to the source code? |  |  |
|  | Mainframe Migration Estimate | 170 | What are the total number of test cases? |  |  |
|  | Mainframe Migration Estimate | 171 | What is the current mainframe annual cost (hardware, software, personnel, connectivity, occupancy, DR, unallocated)? |  |  |
|  | Mainframe Migration Estimate | 172 | Please provide any prior/ongoing mainframe modernization analysis or related documentation. |  |  |
|  | Mainframe Migration Estimate | 173 | Please provide details to the current and planned mainframe change portfolio. |  |  |
|  | Mainframe Migration Estimate | 174 | Please provide link(s) / documentation for each application on the mainframe. |  |  |
|  | Mainframe Migration Estimate | 175 | Are SMEs available for the mainframe? Do you have enough talent to support the legacy skillset? |  |  |
|  | Mainframe Migration Estimate | 176 | Appx. how many applications are running on the mainframe? |  |  |
|  | Mainframe Migration Estimate | 177 | What is the source code management tool (version control tool) in use? |  |  |
|  | Mainframe Migration Estimate | 178 | Are any of these domains/functions (listed above) considered not business/technology strategic? |  |  |
|  | Mainframe Migration Estimate | 179 | What is the number of sysplexes? |  |  |
|  | Mainframe Migration Estimate | 180 | What is the number of LPARs? |  |  |
|  | Mainframe Migration Estimate | 181 | What is the number of CICS/IMS regions? |  |  |
|  | Mainframe Migration Estimate | 182 | What is the number of listed subsystems? |  |  |
|  | Mainframe Migration Estimate | 183 | Is there any company “freeze” period(s) defined for your current production implementation process? If Yes, Please describe , What is the typical ‘code freeze’ period? |  |  |
|  | Mainframe Natural (if applicable) | 184 | Version of Natural used |  |  |
|  | Mainframe Natural (if applicable) | 185 | Mode Used (Structured / Report) |  |  |
|  | Mainframe Natural (if applicable) | 186 | % of system that is Reporting Mode? Structured Mode? |  |  |
|  | Mainframe Natural (if applicable) | 187 | Do you use NATURAL Security |  |  |
|  | Mainframe Natural (if applicable) | 188 | Number of Natural Maps |  |  |
|  | Mainframe Natural (if applicable) | 189 | Number of Natural Online Programs |  |  |
|  | Mainframe Natural (if applicable) | 190 | Number of Natural Batch Programs |  |  |
|  | Mainframe Natural (if applicable) | 191 | Number of Natural Online Subprograms |  |  |
|  | Mainframe Natural (if applicable) | 192 | Number of Natural Batch Subprograms |  |  |
|  | Mainframe Natural (if applicable) | 193 | Number of Natural Subroutines |  |  |
|  | Mainframe Natural (if applicable) | 194 | Number of Natural Help Routines |  |  |
|  | Mainframe Natural (if applicable) | 195 | Number of Global Data Areas |  |  |
|  | Mainframe Natural (if applicable) | 196 | Number of Parameter Data Areas |  |  |
|  | Mainframe Natural (if applicable) | 197 | Number of Local Data Areas |  |  |
|  | Mainframe Natural (if applicable) | 198 | Number of Copycodes |  |  |
|  | Mainframe Natural (if applicable) | 199 | Number of NATURAL JCL streams |  |  |
|  | Mainframe Natural (if applicable) | 200 | Number of programs to generate source dynamically for things like running queries, generating JCL, etc. and what do they do? |  |  |
|  | Mainframe Natural (if applicable) | 201 | Number of External Interfaces (to non-NATURAL objects) |  |  |
|  | Mainframe Natural (if applicable) | 202 | % of Maps having internal edits, either direct or PREDICT based |  |  |
|  | Mainframe Natural (if applicable) | 203 | Do you use NATURAL CONSTRUCT? If yes, % of programs/subprograms that are NATURAL CONSTRUCT generated |  |  |
|  | Mainframe Natural (if applicable) | 204 | Split up of LOC per component in workload: |  |  |
|  | Mainframe Natural (if applicable) | 205 | What is the source code management tool for Natural code? (for example, Endevor, ChangeMan) |  |  |
|  | Mainframe Natural (if applicable) | 206 | Number of Source code libraries - Choose the option provided |  |  |
|  | Mainframe Natural (if applicable) | 207 | Number of Screens Test Cases |  |  |
|  | Mainframe Natural (if applicable) | 208 | Number of Batches Test Cases |  |  |
|  | Mainframe Natural (if applicable) | 209 | Number of Transactions (online and services) Test Cases |  |  |
|  | Mainframe Adabas (if applicable) | 210 | Installed version of ADABAS |  |  |
|  | Mainframe Adabas (if applicable) | 211 | Number of Adabas Databases |  |  |
|  | Mainframe Adabas (if applicable) | 212 | Number of Adabas FDTs (Field Definition Tables) |  |  |
|  | Mainframe Adabas (if applicable) | 213 | Number of views of Adabas files |  |  |
|  | Mainframe Adabas (if applicable) | 214 | Number of elements (rows and columns for each table) |  |  |
|  | Mainframe Adabas (if applicable) | 215 | Do you use ADABAS file security (ADASCR), that is, ADABAS passwords? If yes, please describe extent and usage (e.g., Security-by-Value, Read-only, Update). |  |  |
|  | Mainframe Adabas (if applicable) | 216 | Number of non-ADABAS DDMs for each file type (e.g., NATURAL/VSAM, NATURAL DB/2, NATURAL DL/1) |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 217 | Number of CICS screens |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 218 | Number of COBOL Copybooks |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 219 | Number of CICS COBOL Programs |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 220 | Number of Batch COBOL Programs |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 221 | Number of Other COBOL Programs |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 222 | Number of BMS Maps |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 223 | Number of JCL Jobs |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 224 | Number of JCL Procs |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 225 | Split up of LOC per component in workload |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 226 | Does the Cobol Code LOC include both programs and copybooks? |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 227 | What is the source code management tool for mainframe code? (for example, Endevor, ChangeMan) |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 228 | Number of Source code libraries - Choose the option provided |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 229 | Number of Screens Test Cases |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 230 | Number of Batches Test Cases |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 231 | Number of Transactions (online and services) Test Cases |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 232 | If Stored Procedure used , please provide 1) Type ( SQL, COBOL) 2) Line of Codes by Type 3) Invoked from Distributed( Java) or from COBOL? 4) Count of Nested Stored Procedure( if Any)? |  |  |
|  | Mainframe COBOL,CICS (if applicable) | 233 | Does the application require Double Byte Character Set? |  |  |
|  | Mainframe Security Overview | 234 | What mainframe security system is used, or is mainframe security implemented within the applications? |  |  |
|  | Mainframe Security Overview | 235 | Are there any special audit, security, compliance or environmental requirements? |  |  |
|  | Mainframe Security Overview | 236 | What is the approximate number of Users, Groups, and Resource? |  |  |
|  | Mainframe Security Overview | 237 | Is the access to the system controlled by advanced authentication/authorization? |  |  |
|  | Mainframe Security Overview | 238 | do you currently post mainframe security events to a Security Incident and Event Management (SIEM) system for security and compliance monitoring purposes? If so, what is used? Will this be a requirement for the cloud application(rehosted/refactored/rewritten)? |  |  |
|  | Mainframe Security Overview | 239 | Are mainframe applications checked for vulnerabilities before they are deployed into production? |  |  |
|  | Preferred Target Architecture | 240 | What is the preferred target platform operating system(s)? |  |  |
|  | Preferred Target Architecture | 241 | What is the preference for the target user interface screens? |  |  |
|  | Preferred Target Architecture | 242 | What is the preference for target state compute resources? |  |  |
|  | Preferred Target Architecture | 243 | What are the preferred target state middleware, application, and data integration patterns? |  |  |
|  | Preferred Target Architecture | 244 | If there are mainframe screen-printing use-cases and tools (like IBM HATS), what are the preferred target state tools and patterns? |  |  |
|  | Preferred Target Architecture | 245 | If there is a need for data integration such as on-premises to AWS, does the customer have a preference for data integration tools or patterns? |  |  |
|  | Preferred Target Architecture | 246 | What is the customer's preferred target application programming language for the mainframe workload? |  |  |
|  | Preferred Target Architecture | 247 | What is the customer's preferred batch job schedulers for migrated jobs? |  |  |
|  | Preferred Target Architecture | 248 | What is the customer's preferred target database(s)? |  |  |
|  | Preferred Target Architecture | 249 | Does the customer have a requirement for shared file storage? |  |  |
|  | Preferred Target Architecture | 250 | Does the customer have a requirement to maintain session state? |  |  |
|  | Preferred Target Architecture | 251 | What is the customer's preference for the development, testing, and CI/CD tools in the target state? |  |  |
|  | Preferred Target Architecture | 252 | What are the customers preferred tools for monitoring, logging, and alerting tools in the target state? |  |  |
|  | Preferred Target Architecture | 253 | What does the customer prefer for security and access control tools in the target state? |  |  |
|  | Preferred Target Architecture | 254 | What does the customer prefer for backup and archival tools in the target state? |  |  |
|  | Preferred Target Architecture | 255 | What does the customer prefer for printing and output management tools in the target state? |  |  |
|  | Preferred Target Architecture | 256 | Does customer prefer EBCDIC to Unicode conversion? |  |  |
|  | Preferred Target Architecture | 257 | What is the RTO (Recovery Time Objective) for the target state? |  |  |
|  | Preferred Target Architecture | 258 | What is the RPO (Recovery Point Objective) for the target state? |  |  |
|  | Preferred Target Architecture | 259 | What are the performance and capacity requirements for the target state? |  |  |
|  | IMS (if applicable) | 260 | Do you have Mainframe workload with IMS Printing? If yes, is print usage done via MFS online or Batch? IMS MPR printer spool API? |  |  |
|  | IMS (if applicable) | 261 | What IMS Exits are currently in use? |  |  |
|  | IMS (if applicable) | 262 | Are IMS System Exit Routines written in Assembler or any other language other than Cobol? How many? What language? What do the routines do? |  |  |
|  | IMS (if applicable) | 263 | Any IMS Assembler modules used that are not associated with IMS exits? How are they used? |  |  |
|  | IMS (if applicable) | 264 | Any Service interfaces to invoke IMS transactions without a screen? |  |  |
|  | IMS (if applicable) | 265 | Any Service interfaces to invoke IMS Database (remote IMS ) being used? |  |  |
|  | IMS (if applicable) | 266 | Do you use IMS DB logging and recovery utilities (DBRC functionally)? |  |  |
|  | IMS (if applicable) | 267 | Do you use IMS Security Maintenance Utility (SMU)? |  |  |
|  | IMS (if applicable) | 268 | Are DLI functions used? |  |  |
|  | IMS (if applicable) | 269 | IMS Database access, what is the mix of database access (read vs. update)? |  |  |
|  | IMS (if applicable) | 270 | What types of connectivity is used by IMS? |  |  |
|  | IMS (if applicable) | 271 | What tool are you using to edit IMS data? |  |  |
| Optional - AS/400 | AS400 Overview/Inventory | 272 | What are the business functions and domains supported by the midrange (AS400/iSeries) systems? |  |  |
|  | AS400 Overview/Inventory | 273 | What are the key pain points in the legacy system from the business perspective? E.g. Agility, Scalability, Time to market |  |  |
|  | AS400 Overview/Inventory | 274 | Do you have a compelling event or a target date or deadline to modernize your legacy system ? |  |  |
|  | AS400 Overview/Inventory | 275 | Who are the end users of this system ? |  |  |
|  | AS400 Overview/Inventory | 276 | How many users connect to the system (s)? - peak and concurrent |  |  |
|  | AS400 Overview/Inventory | 277 | Where are the users of the application(s) located? |  |  |
|  | AS400 Overview/Inventory | 278 | Does this system have to up all day? What are the system uptime (availability) requirements? (24 x7 , 24 x 5)? |  |  |
|  | AS400 Overview/Inventory | 279 | What the expected RTO (recovery time Objective) and RPO(recovery point objective) during a disaster? |  |  |
|  | AS400 Overview/Inventory | 280 | How many physical machines (AS400/iSeries/Power) are in the scope of this exercise? |  |  |
|  | AS400 Overview/Inventory | 281 | What kind of midrange machines are in scope of assessment? (E.g. IBM Power 8, System I, iSeries, AS/400, System/36) |  |  |
|  | AS400 Overview/Inventory | 282 | Do you own all rights to the source code ? Is any of it governed by third party NDA? |  |  |
|  | AS400 Overview/Inventory | 283 | Please give a rough estimate of application size (Lines of code). |  |  |
|  | AS400 Overview/Inventory | 284 | Which are the main programming technologies in use on the platform? |  |  |
|  | AS400 Overview/Inventory | 285 | Which Integrated Development Environment (IDE )do you use for development? (Visual Lansa, RDi etc.) |  |  |
|  | AS400 Overview/Inventory | 286 | Are you using any Case Tools for development ? |  |  |
|  | AS400 Overview/Inventory | 287 | Name any commercial Off the shelf (COTS) products, Enterprise planning tools in use on legacy. |  |  |
|  | AS400 Overview/Inventory | 288 | Which database technologies are you using ? (e.g. Db2/400) |  |  |
|  | AS400 Overview/Inventory | 289 | Please provide an estimate of size of the data on the legacy system (Terabytes or number of records, number of physical files (PFs), number of logical files (LFs) |  |  |
|  | AS400 Overview/Inventory | 290 | What are the source configuration management(SCM) tool used on the AS/400? |  |  |
|  | AS400 Overview/Inventory | 291 | Which schedulers is/are in use on the AS/400? |  |  |
|  | AS400 Overview/Inventory | 292 | How is data presented to end users of the application ? |  |  |
|  | AS400 Overview/Inventory | 293 | Is any screen scraping tool used for AS/400 application? If yes ,which screen scraping tools are being used?(HATS, etc) |  |  |
|  | AS400 Overview/Inventory | 294 | Do the AS/400 applications leverage a Web Server running on the AS/400? |  |  |
|  | AS400 Overview/Inventory | 295 | Describe any integration technologies and products used to connect to the midrange/AS400 |  |  |
|  | AS400 Overview/Inventory | 296 | Have you attempted any migration or modernization of workloads off this midrange server before this? |  |  |
|  | AS400 Overview/Inventory | 297 | If the answer to above question is yes, Which patterns were used? And what Is the current status of the project? |  |  |
|  | AS400 Overview/Inventory | 298 | Are there any in-flight projects that will have dependencies on the AS/400 migration? |  |  |
|  | AS400 Overview/Inventory | 299 | Is there any project dependency, predecessor that should be considered? |  |  |
|  | AS400 Overview/Inventory | 300 | Is there a batch window when the users cannot access the on-line application? If yes what is the period when the application is unavailable to online users. |  |  |
|  | AS400 Overview/Inventory | 301 | What is the annual cost of operations (excluding personnel costs)? |  |  |
|  | AS400 Overview/Inventory | 302 | Who is operating or managing the customer midrange/AS400 ? |  |  |
|  | AS400 Overview/Inventory | 303 | Who is maintaining and developing the midrange/AS400 applications ? |  |  |
|  | AS400 Overview/Inventory | 304 | What is the availability of subject matter expertise for on legacy business processes? | ? |  |
|  | AS400 Overview/Inventory | 305 | How many developers maintain and manage the system? |  |  |
|  | AS400 Overview/Inventory | 306 | How would you rate technical expertise on legacy platform? | ? |  |
|  | AS400 Overview/Inventory | 307 | Have you performed any analysis of the code base? Please rate the extent of understanding on this code base | ? |  |
|  | AS400 Overview/Inventory | 308 | Describe if there are test cases, scripts, tools and plans available to test the AS/400 /i Series machine applications? |  |  |
|  | AS400 Overview/Inventory | 309 | Please rate the testing capabilities available for the legacy system | ? |  |
|  | AS400 Overview/Inventory | 310 | Is your IT organization run as a federation of groups or a centralized organization? The more distributed the more difficult migration coordination will be assuming the migration scope spans these distributed groups. | ? |  |
|  | AS400 Overview/Inventory | 311 | How frequently are changes deployed to your legacy application? Name any tools that you use to manage the source code. |  |  |
|  | AS400 Overview/Inventory | 312 | Which project management methodology do you follow on the AS/400? |  |  |
|  | AS400 Overview/Inventory | 313 | Who manages the system operations, upgrades etc? (Is it done in house or by an external party) |  |  |
|  | Migration ROM sizing estimate | 314 | How many Logical Partitions are present on each machine? If possible describe their purpose and provide max processor capacity |  |  |
|  | Migration ROM sizing estimate | 315 | What is the midrange operating System and version ? - E.g. IBM i7.4, i5/OS, OS/400 , System/36, CPF, AIX, Linux |  |  |
|  | Migration ROM sizing estimate | 316 | What are the annual license costs? |  |  |
|  | Migration ROM sizing estimate | 317 | What are the model numbers of the machines in scope of assessment? (Your systems team can get this using the command DSPSYSVAL) |  |  |
|  | Migration ROM sizing estimate | 318 | What are the processor types? (Your systems team can get this using the command DSPSYSVAL) |  |  |
|  | Migration ROM sizing estimate | 319 | What is the maximum number of processing units across all LPARs? |  |  |
|  | Migration ROM sizing estimate | 320 | What is the CPW (Commercial Processing Workload) rating? |  |  |
|  | Migration ROM sizing estimate | 321 | If possible, please provide Maximum CPU utilization |  |  |
|  | Migration ROM sizing estimate | 322 | If possible, please provide Average CPU utilization |  |  |
|  | Migration ROM sizing estimate | 323 | What is the RAM size? |  |  |
|  | Migration ROM sizing estimate | 324 | What is the total disk space i.e. volume of warm data on the system? (Terabytes, DB2 tables , number of Physical files (PFs), logical files (LFs) etc.) |  |  |
|  | Migration ROM sizing estimate | 325 | What is the max Disk IOPS (Input outputs per second) |  |  |
|  | Migration ROM sizing estimate | 326 | What is the volume of backup (cold) data? Where is it stored? (Tapes, S3, etc.)? |  |  |
|  | Migration ROM sizing estimate | 327 | What is the Average network IOPS (Input outputs per second)? |  |  |
|  | Migration ROM sizing estimate | 328 | What is the Maximum network IOPS (Input outputs per second)? |  |  |
|  | Migration ROM sizing estimate | 329 | Size of development Environment : What percentage of the compute, storage, database, and networking should be considered for the Dev environment? |  |  |
|  | Migration ROM sizing estimate | 330 | Size of testing Environment : What percentage of the compute, storage, database, and networking should be considered for the Testing environment? |  |  |
|  | Migration ROM sizing estimate | 331 | If available, please provide size of the each type of code. (lines of code) |  |  |
|  | Migration Pattern & Tool Guidance | 332 | Is the application stable and capable of delivering all business requirements? |  |  |
|  | Migration Pattern & Tool Guidance | 333 | Are you planning to make major changes to the application in the coming years/months? |  |  |
|  | Migration Pattern & Tool Guidance | 334 | Do you plan to isolate and scale functions as micro services? |  |  |
|  | Migration Pattern & Tool Guidance | 335 | Are any non AS400 applications integrated with the mid range server ? |  |  |
|  | Migration Pattern & Tool Guidance | 336 | Is the application web enabled? How does the web application connect with legacy? |  |  |
|  | Migration Pattern & Tool Guidance | 337 | Is the application mobile enabled? How does the mobile app connect with legacy? |  |  |
|  | Migration Pattern & Tool Guidance | 338 | Is there any queue based integration? How is it done? |  |  |
|  | Migration Pattern & Tool Guidance | 339 | List any CGI interfaces (Common Gateway Interfaces) |  |  |
|  | Migration Pattern & Tool Guidance | 340 | List data transfer interfaces (e.g. iSeries Data Transfer, FTP, SFTP, Webservices, IBM Direct Connect, JDBC/ODBC) |  |  |
|  | Migration Pattern & Tool Guidance | 341 | List any monitoring and auditing services (e.g. AS400 native auditing, third party logging and auditing tools) |  |  |
|  | Migration Pattern & Tool Guidance | 342 | Do you have an S/36 flat files (internally described). If yes how many? |  |  |
|  | Migration Pattern & Tool Guidance | 343 | How are the data entities defined ? (DDS - data description specification, DDL - SQL data definition language, Other ?) |  |  |
|  | Migration Pattern & Tool Guidance | 344 | If possible please provide available data sizing metrics? (Terabytes, Number of DB2 tables , number of Physical files (PFs), logical files (LFs) etc.) |  |  |
|  | Migration Pattern & Tool Guidance | 345 | Are you are using the Midrange(AS400) data as backing for an external database like PostgreSQL, MongoDB, REDIS in PASE? If so please provide detail |  |  |
|  | Migration Pattern & Tool Guidance | 346 | Is your data warehouse hosted on the AS/400 Or is it external to the AS/400? |  |  |
|  | Migration Pattern & Tool Guidance | 347 | Have you integrated any reporting applications/analytics with the backend? |  |  |
|  | Preferred Target Architecture | 348 | What is your preferred target platform (Windows /Linux )? |  |  |
|  | Preferred Target Architecture | 349 | What is your Preferred target language (.NET, Java , retain legacy language)? |  |  |
|  | Preferred Target Architecture | 350 | Preferred target database to be used (IDB\*, Oracle or MS SQL Server)? |  |  |
|  | Preferred Target Architecture | 351 | Do you want to retain EBCDIC encoding for data in the target environment? |  |  |
|  | Preferred Target Architecture | 352 | Have you identified a Proof of Concept (POC) or Pilot candidate and the entry points to the selected scope? |  |  |
|  | Preferred Target Architecture | 353 | Can you give the size of the POC candidate in terms of program type and lines of code? |  |  |
|  | Workloads (optional) | 354 | Number of S/36 style flat files (internally described) |  |  |
|  | Workloads (optional) | 355 | Number of Physical Files |  |  |
|  | Workloads (optional) | 356 | Number of Logical Files |  |  |
|  | Workloads (optional) | 357 | Number of DDL Sources |  |  |
|  | Workloads (optional) | 358 | Number of Tables |  |  |
|  | Workloads (optional) | 359 | Number of CL Programs |  |  |
|  | Workloads (optional) | 360 | Number of ILE CL Programs |  |  |
|  | Workloads (optional) | 361 | Number of Custom CL Commands |  |  |
|  | Workloads (optional) | 362 | Number of RPG/400 Programs |  |  |
|  | Workloads (optional) | 363 | Number of COBOL/400 Programs |  |  |
|  | Workloads (optional) | 364 | Number of SQL RPG/400 Programs |  |  |
|  | Workloads (optional) | 365 | Number of SQL COBOL/400 programs |  |  |
|  | Workloads (optional) | 366 | Number of C/C++ 400 programs |  |  |
|  | Workloads (optional) | 367 | Number of ILE Modules |  |  |
|  | Workloads (optional) | 368 | Number of ILE RPG programs |  |  |
|  | Workloads (optional) | 369 | Number of ILE SQL RPG Programs |  |  |
|  | Workloads (optional) | 370 | Number of ILE COBOL Programs |  |  |
|  | Workloads (optional) | 371 | Number of ILE SQL COBOL Programs |  |  |
|  | Workloads (optional) | 372 | Number of ILE C/C++ programs |  |  |
|  | Workloads (optional) | 373 | Number of ILE Service Programs |  |  |
|  | Workloads (optional) | 374 | Number of Java/400 Programs |  |  |
|  | Workloads (optional) | 375 | Number of System/36 RPG II programs |  |  |
|  | Workloads (optional) | 376 | Number of System/36 OCL Procedures |  |  |
|  | Workloads (optional) | 377 | Number of Display Files |  |  |
|  | Workloads (optional) | 378 | Number of Printer Files |  |  |
|  | Workloads (optional) | 379 | Number of Panel Groups |  |  |
|  | Workloads (optional) | 380 | Number of Menus (MNU) |  |  |
|  | Workloads (optional) | 381 | Number of Activation Groups |  |  |
|  | Workloads (optional) | 382 | Database triggers or referential integrity constraints used? |  |  |
|  | Workloads (optional) | 383 | Are the Integrated File System (IFS) and/or related commands used? |  |  |
|  | Workloads (optional) | 384 | Provide an inventory of the OS/400 APIs used |  |  |
|  | Workloads (optional) | 385 | List any CGI interfaces (Common Gateway Interfaces) |  |  |
|  | Workloads (optional) | 386 | Number of MQ Interfaces |  |  |
|  | Workloads (optional) | 387 | Query Manager Queries |  |  |
|  | Workloads (optional) | 388 | Number of Office 400 Objects |  |  |
|  | Workloads (optional) | 389 | List data transfer interfaces (e.g. iSeries Data Transfer, FTP, SFTP, Webservices, IBM Direct Connect, JDBC/ODBC) |  |  |
|  | Workloads (optional) | 390 | List any rendering services (e.g. XML, PDF, HTML) |  |  |
|  | Workloads (optional) | 391 | List any monitoring and auditing services (e.g. AS400 native auditing, third party logging and auditing tools) |  |  |
|  | Workloads (optional) | 392 | Number of Synon Models |  |  |
|  | Workloads (optional) | 393 | Number of Synon Entities |  |  |
|  | Workloads (optional) | 394 | Number of Synon Access Paths/Logical Files |  |  |
|  | Workloads (optional) | 395 | Number of Synon Functions |  |  |
|  | Workloads (optional) | 396 | Number of Synon Internal Routines |  |  |
|  | Workloads (optional) | 397 | Number of Synon Action Diagrams |  |  |
|  | Workloads (optional) | 398 | Number of LANSA repositories |  |  |
|  | Workloads (optional) | 399 | Number of LANSA RDML functions |  |  |
|  | Workloads (optional) | 400 | Number of LANSA Files |  |  |
|  | Workloads (optional) | 401 | Number of LANSA Logical Views |  |  |
|  | Workloads (optional) | 402 | Number of LANSA Validation rules/triggers |  |  |
|  | Security Overview | 403 | What AS/400 security system is used, or is mainframe security implemented within the applications? |  |  |
|  | Security Overview | 404 | Are there any special audit, security, compliance or environmental requirements? |  |  |
|  | Security Overview | 405 | What is the approximate number of Users, Groups, and Resource? |  |  |
|  | Security Overview | 406 | Is the access to the system controlled by advanced authentication/authorization? |  |  |
|  | Security Overview | 407 | Do you currently post mainframe security events to a Security Incident and Event Management (SIEM) system for security and compliance monitoring purposes? If so, what is used? Will this be a requirement for the cloud application(rehosted/refactored/rewritten)? |  |  |
|  | Security Overview | 408 | Are AS400 applications checked for vulnerabilities before they are deployed into production? |  |  |
| Optional - NetworkTrans | Connectivity to Datacenters | 409 | Provide details on how many datacenters you have today, how they are connected and their locations. |  |  |
|  | Connectivity to Datacenters | 410 | Provide details of any existing connectivity to AWS and/or other clouds. |  |  |
|  | Connectivity to Datacenters | 411 | Are there any additional requirements related to datacenter connectivity? |  |  |
|  | Connectivity within AWS | 412 | Provide details on workloads in different geographies. How many AWS regions do you plan to use? |  |  |
|  | Connectivity within AWS | 413 | If you already have workloads in AWS today, how do you interconnect them within AWS? |  |  |
|  | Connectivity to Branches | 414 | Provide details on how you connect your branches and datacenters today. What are your key business initiatives with WAN architecture? What are the geographical locations of branches and how many of them do you have? |  |  |
|  | Connectivity to Branches | 415 | Do you have plans to connect branches directly to AWS cloud as workloads migrate to the cloud? |  |  |
|  | Connectivity to Branches | 416 | Provide details on how you secure your branches today and what you plan to do in the future (e.g. Zero Trust, Secure Access Service Edge initiatives). |  |  |
|  | Connectivity to Internet | 417 | Provide details if your AWS workloads need to have outbound or inbound Internet connectivity. |  |  |
|  | Connectivity to Internet | 418 | Provide details on how your branch and remote users access the Internet today, and if you plan to use AWS for Internet egress in future. |  |  |
|  | Network Security | 419 | How are you securing workloads in your current environment? |  |  |
|  | Network Security | 420 | Do you plan to use AWS native security controls or third party network security appliances? |  |  |
| Optional - Database | Database Portfolio | 421 | How would you describe your relationship with commercial database vendors such as Oracle or Microsoft? |  |  |
|  | Database Portfolio | 422 | When do the support contracts with Oracle and/or Microsoft end? This year or next 1-2 years? |  |  |
|  | Database Portfolio | 423 | Do you know how many databases do you have in total? Or what is your IT spend towards database platforms? |  |  |
|  | Database Portfolio | 424 | How many ISV/COTS packages do you have versus custom/inhouse developed? |  |  |
|  | Database Portfolio | 425 | How many applications/databases are in EOSL (End of Service Life) ? |  |  |
| Optional - Outpost | Outpost | 426 | Do you have the willingness and operational capability to run additional servers on premises? | 1 |  |
|  | Outpost | 427 | Do you have lower latency requirement on some workloads than what can be achieved using the nearest region? If so what would be the percentage of these workloads over your total number of workloads? | 5 |  |
|  | Outpost | 428 | Are you bound either by national or supra-national regulations, or by corporate policy to keep all or part of your data in a given physical location? | 4 |  |
|  | Outpost | 429 | Under which conditions does your policy allow for the return of decommissioned or impaired hardware to a manufacturer? | 1 |  |
|  | Outpost | 430 | Do you have at least 1Gbps of bandwidth to the AWS region you want to connect to? | Yes |  |
|  | Outpost | 431 | Is your connectivity fully redundant? | 5 |  |
|  | Outpost | 432 | Are your switches and routers running versions of software the vendor currently supports? | No |  |
| Optional - SAP | SAP | 433 | Have you engaged an AWS SAP competency partner or the AWS SAP ProServe team to assist with the migration? |  |  |
|  | SAP | 434 | Does your team have the SAP and AWS skills and capability to drive the project themselves? |  |  |
|  | SAP | 435 | Has the target architecture for SAP on AWS been finalized? |  |  |
|  | SAP | 436 | Does the bill of materials (BOM) for your target SAP on AWS environment reflect planned in place transformations? |  |  |
|  | SAP | 437 | What is the high level project timeline (e.g. start and end dates of migration for various SAP system landscapes)? |  |  |
|  | SAP | 438 | What are the SAP solutions being migrated? |  |  |
|  | SAP | 439 | Has the migration methodology and tooling been finalized? |  |  |
|  | SAP | 440 | Have processes for monitoring SAP applications and carrying out operational activities like backup/recovery either natively or using an ISV solution after migration to AWS been finalized. Is any required software licensing in place? |  |  |
|  | SAP | 441 | Will you manage the SAP environments post migration or will you rely on a partner to manage them? |  |  |
|  | SAP | 442 | If you plan to rely on a partner to manage your SAP environments after migration, is the Managed Services partner an AWS certified partner? |  |  |
|  | SAP | 443 | SAP customers need to have signup for at least business support. Are you aware of that requirement and planning to sign up for business support or enterprise support? |  |  |
| Optional - App Modernization | App Modernization | 444 | How satisfied are you with the current operational processes with respect to your ability to proactively monitor the system for issues and conduct RCA on incidents? |  |  |
|  | App Modernization | 445 | Do you have any concerns regarding this system’s ability to support any upcoming business objectives (short/medium term)? (business model innovations, market expansion, etc.)? |  |  |
|  | App Modernization | 446 | Are you able to stand up small autonomous teams that can take a change request through implementation & deployment? |  |  |
|  | App Modernization | 447 | Would you classify any of the workloads in the MRA scope as “monoliths”? |  |  |
|  | App Modernization | 448 | How satisfied are you with the ease/speed at which you are currently able to make changes / improve your system to meet customer/business demands? |  |  |

# MRA2

# Recommended Actions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Action | Action Priority | Action Effort | Target Date | Owner |
| Mobilize: Establish best practices and build/refine Security Operations Playbook as part of Mobilize | High | Short | 2023-03-03 |  |
| Mobilize: Establish best practices and build/refine capabilities for this Security Epic as part of Mobilize | High | Short | 2023-01-13 |  |
| Mobilize: Establish best practices and build/refine capabilities for Logging & Monitoring as part of Mobilize | High | Short | 2023-02-17 |  |
| Mobilize: Establish best practices and build/refine capabilities for Governance, Risk & Compliance as part of Mobilize | High | Short | 2023-02-03 |  |
| Mobilize: Establish best practices and build/refine capabilities for this Security Epic as part of Mobilize | High | Short | 2023-03-03 |  |
| Run the "Executive Security Simulation" and the "Executive Security Workshop" to gather input from security leadership for Mobilize | High | Short | 2023-02-24 |  |
| Mobilize: Establish best practices and build/refine capabilities for Incident and Problem Management as part of Mobilize | High | Short | 2023-02-03 |  |
| Mobilize: Establish best practices and build/refine capabilities for CI/CD as part of Mobilize | High | Short | 2023-03-10 |  |
| Mobilize: Establish best practices and build/refine capabilities for Operational Readiness as part of Mobilize | High | Short | 2023-01-27 |  |
| Mobilize: Establish best practices and build/refine capabilities for Cost Management as part of Mobilize | High | Short | 2023-02-17 |  |
| Mobilize: Establish best practices and build/refine capabilities for Service Catalog as part of Mobilize | High | Short | 2023-02-24 |  |
| Mobilize: Establish best practices and build/refine capabilities for BCP/DR as part of Mobilize | High | Short | 2023-02-17 |  |
| Mobilize: Establish best practices and build/refine capabilities for Config and Change Management as part of Mobilize | High | Short | 2023-02-10 |  |
| Mobilize: Establish best practices and build/refine capabilities for Backup as part of Mobilize | High | Medium | 2023-02-10 |  |
| Build plan and business case for DC exit/consolidation | High | Medium | 2022-12-30 |  |
| Engage with the AWS DC Divest team for support on DC and IT Asset discovery, disposal, and future planning to address business case, cost, regulatory and HR issues and impacts. | High | Medium | 2022-12-16 |  |
| Build a high-level business case including any DC exit/consolidation and share with the broader team to build consensus and buy-in | High | Short | 2022-12-09 |  |
| EBA Accelerator: Conduct the "Data Center Exit" EBA session to build executive support and provide insights and actionable recommendations for board paper on Data Center portfolio restructuring. | High | Short | 2022-12-09 |  |
| MAP Accelerator: Start the "Rapid Migration Business Case" engagement with AWS Cloud Economics team, including Migration Evaluator (ME) based infrastructure discovery, software licensing optimization, and TCO saving estimation | High | Short | 2022-12-09 |  |
| MAP Accelerator: Start "Discovery Acceleration and Planning (DAP)" - Includes infrastructure and application discovery, directional business case with Migration Evaluator, intial wave plan (one to two waves) and optional Microsoft licensing optimization. | High | Short | 2022-12-09 |  |
| Use Migration Evaluator (ME) to do a quick discovery and build a high-level business case | High | Short | 2022-12-07 |  |
| EBA Accelerator: Conduct the "Migration Party" (migrating 3 applications in 3 days) to develop migration patterns, required operating & migration models, governance at scale and supporting automation | High | Short | 2023-02-24 |  |
| EBA Accelerator: Conduct the "Portfolio Analysis Party" to start analyzing applications, establish decision criteria for application migration candidates, solidify migration success patterns and define initial migration wave plans for a subset of your environment | High | Short | 2022-12-16 |  |
| MAP Accelerator: Start "Discovery Acceleration and Planning (DAP)" - Includes infrastructure and application discovery, directional business case with Migration Evaluator, intial wave plan (one to two waves) and optional Microsoft licensing optimization. | High | Short | 2022-12-09 |  |
| Engage with AWS to conduct a Windows Migration and Modernization Assessment to rapidly determine the next steps to modernize your Microsoft-based workloads | High | Short | 2023-01-27 |  |
| Engage with AWS to conduct Application Modernization Assessment to build/refine your strategy for modernizing legacy applications | High | Short | 2023-01-27 |  |
| Engage with AWS to apply AWS Database Migration Assessment Framework to build/refine your cloud-based DB strategy | High | Short | 2023-01-27 |  |
| Engage with AWS to conduct AWS Applications Assessment to perform discovery and detailed assessment, including migration strategy, for up to 5 initial movers. | High | Short | 2023-01-27 |  |
| EBA Accelerator: Conduct the "Portfolio Analysis Party" to start analyzing applications, establish decision criteria for application migration candidates, solidify migration success patterns and define initial migration wave plans for a subset of your environment | High | Medium | 2023-01-13 |  |
| MAP Accelerator: Start "Discovery Acceleration and Planning (DAP)" - Includes infrastructure and application discovery, directional business case with Migration Evaluator, intial wave plan (one to two waves) and optional Microsoft licensing optimization. | High | Short | 2022-12-09 |  |
| EBA Accelerator: Conduct the "Portfolio Discovery Party" to start collecting current application and infrastructure information for a subset of your environment | High | Medium | 2023-01-13 |  |
| Mobilize: Perform a full application portfolio assessment and migration planning as part of Mobilize. This includes portfolio application/infrastructure discovery, migration patterns for 7R's (Retain, Retire, Rehost, Replatform, Rearchitect, Repurchase, Relocate), dependency analysis, migration wave plan, and detailed assessment of initial movers. | High | Short | 2023-01-06 |  |
| Identify initial movers (generally require App Owner who is a promoter and an App that is not complex) | High | Short | 2023-01-06 |  |
| Engage the AWS Training team for a learning needs assessment | High | Short | 2022-12-16 |  |
| Identify a training leader to help drive initiative | High | Short | 2022-12-16 |  |
| Mobilize: Perform a full application portfolio assessment and migration planning as part of Mobilize. This includes portfolio application/infrastructure discovery, migration patterns for 7R's (Retain, Retire, Rehost, Replatform, Rearchitect, Repurchase, Relocate), dependency analysis, migration wave plan, and detailed assessment of initial movers. | High | Short | 2023-01-06 |  |
| Identify initial movers (generally require App Owner who is a promoter and an App that is not complex) | High | Short | 2022-12-16 |  |
| Do discovery to understand what the environment looks like and identify early movers | High | Short | 2022-12-16 |  |
| Identify the first movers and larger migration vision | High | Short | 2022-12-16 |  |
| Do a TCO for full on-prem environment to solidify the opportunity vision and specifically state a strategy / goal around cloud adoption and migration to drive speed | High | Medium | 2022-12-23 |  |
| Do discovery to enable an estimate of migration effort | High | Short | 2022-12-16 |  |
| Build plan and business case for DC exit/consolidation | High | Medium | 2022-12-30 |  |
| Engage with the AWS DC Divest team for support on DC and IT Asset discovery, disposal, and future planning to address business case, cost, regulatory and HR issues and impacts. | High | Medium | 2022-12-16 |  |
| Build a high-level business case including any DC exit/consolidation and share with the broader team to build consensus and buy-in | High | Short | 2022-12-09 |  |
| MAP Accelerator: Start the "Rapid Migration Business Case" engagement with AWS Cloud Economics team, including Migration Evaluator (ME) based infrastructure discovery, software licensing optimization, and TCO saving estimation | High | Short | 2022-12-09 |  |
| MAP Accelerator: Start "Discovery Acceleration and Planning (DAP)" - Includes infrastructure and application discovery, directional business case with Migration Evaluator, intial wave plan (one to two waves) and optional Microsoft licensing optimization. | High | Short | 2022-12-09 |  |
| Use Migration Evaluator (ME) to do a quick discovery and build a high-level business case | High | Short | 2022-12-07 |  |
| Engage AWS or an APN Partner to include the AWS Security Assessment as part of your mobilize phase activities to assure you are building and operating securely in the cloud and protecting your technology assets and business | Med | Short | 2023-02-03 |  |
| Suggest the "Advanced Security Epics" as a follow on to the Mobilize | Med | Short | 2023-02-03 |  |
| AWS to share best practices on Logging and Monitoring | Med | Short | 2023-02-03 |  |
| Determine if there are third-party risk assessment requirements | Med | Short | 2022-12-16 |  |
| Mobilize: Educate on security model and cloud security foundations as part of Mobilize | Med | Short | 2023-02-10 |  |
| MAP Accelerator: Run the "Security Briefing" to educate key stakeholders on security model and cloud security foundations | Med | Short | 2023-01-06 |  |
| AWS to share best practices on Incident and Problem Management | Med | Short | 2023-02-10 |  |
| AWS to share AWS best practices around code pipelines CI/CD and general DevOps practices to further improve team capability | Med | Short | 2023-02-17 |  |
| Establish goals around DevOps adoption and training plans and cut-overs to achieve those goals | Med | Short | 2023-01-27 |  |
| Build up operations capability and build Run Books for operating in cloud | Med | Medium | 2023-01-27 |  |
| Build and deploy service catalog | Med | Short | 2023-03-03 |  |
| Continue growing standard architecture and automated deployment for standard items | Med | Long | 2023-04-07 |  |
| Share best practice and review current solution for scalability | Med | Short | 2023-02-10 |  |
| Establish tagging strategy, process, and standards | Med | Short | 2023-01-27 |  |
| Evaluate AWS best practice for backups | Med | Short | 2023-02-10 |  |
| Continue to improve patching decision and automation processes | Med | Long | 2023-04-07 |  |
| Build schedule of IT assets end of use dates | Med | Short | 2022-12-30 |  |
| Select an automated discovery tool to aid in the building of a business case | Med | Short | 2022-12-12 |  |
| Engage the AWS Cloud Economics team for a Cloud Financial Management (CFM) Capability Assessment | Med | Medium | 2022-12-16 |  |
| Leverage an experienced partner to do the Migration | Med | Short | 2023-01-27 |  |
| Review how current applications are deployed in AWS | Med | Short | 2023-01-20 |  |
| MAP Accelerator: Participate in the 1-day "Migration Immersion Day" that introduces AWS discovery and migration tools (e.g. CloudEndure, Application Discovery Service) and migrate an app in a simulated environment | Med | Short | 2023-01-06 |  |
| Create a communications plan to keep stakeholders and other parties informed on a regular basis | Med | Short | 2022-12-09 |  |
| Select and implement automated discovery tooling from one of the AWS partners that can assist in inventory and dependency mapping with expert guidance | Med | Short | 2022-12-12 |  |
| Review application inventory to confirm usability and identify data gaps | Med | Short | 2023-01-13 |  |
| Select and implement automated discovery tooling from one of the AWS partners that can assist in inventory and dependency mapping with expert guidance | Med | Short | 2023-01-20 |  |
| Refine your detailed business case on the larger migration scope as part of the Mobilize phase | Med | Medium | 2023-01-20 |  |
| Engage the AWS Cloud Economics team for a Cloud Financial Management (CFM) Capability Assessment | Med | Short | 2022-12-09 |  |
| Refine your detailed business case on the larger migration scope as part of the Mobilize phase | Med | Short | 2022-12-23 |  |
| Confirm decision regarding roles of internal teams, Partner, and AWS, and involve Partner (if applicable) in the migration strategy and planning as early as possible | Med | Short | 2022-12-09 |  |
| Get budget allocation for the first year of migration effort | Med | Short | 2022-12-16 |  |
| Build schedule of IT assets end of use dates | Med | Short | 2022-12-30 |  |
| Engage the AWS Cloud Economics team for a Cloud Financial Management (CFM) Capability Assessment | Med | Medium | 2022-12-16 |  |
| Select an automated discovery tool to aid in the building of a business case | Med | Short | 2022-12-12 |  |
| Mobilize: Conduct Security Game Day as part of Mobilize | Low | Short | 2023-03-10 |  |
| Get the third-party risk assessment completed. Engage AWS as needed to ensure passage | Low | Short | 2022-12-30 |  |
| Re-evaluate runbooks to ensure best AWS practices are being used. Specifically consider where automation can reduce time/complexity and where elasticity can reduce cost | Low | Short | 2023-03-31 |  |
| Re-evaluate tagging solution to ensure it will enable / facilitate the proper charge back and improve to meet future objectives. [This can be a lot of work if not done up front] | Low | Short | 2023-02-24 |  |
| Explore how Service Catalog (and/or ServiceNow) can be used to increase speed of delivery/agility | Low | Short | 2023-02-17 |  |
| Get specific around vision and drive roles and responsibilities of AWS/MSP/etc. accordingly | Low | Short | 2022-12-30 |  |
| Evaluate AWS Managed Services (AMS) to see if it makes sense to offload mundane activities/infrastructure ops to that and keep resources focused on innovation and differentiating activities | Low | Short | 2022-12-16 |  |
| Engage with AWS to conduct a “Carbon Footprint Framework Workshop” to learn how to leverage cloud technology and automate sustainability KPI measurement and set/manage decarbonization goals | Low | Medium | 2022-12-23 |  |
| Ask the Continuous Improvement team for tools around stakeholder analysis, buy-in and communication plans. This should be run as an organizational change initiative that aligns with your culture | Low | Long | 2023-01-20 |  |
| Determine the partner selection criteria | Low | Short | 2022-12-09 |  |
| Identify workloads that have a large and near term pay-back to start saving | Low | Short | 2022-12-16 |  |
| Ask the Continuous Improvement team for tools around stakeholder analysis, buy-in and communication plans. This should be run as an organizational change initiative that aligns with your culture | Low | Long | 2023-01-20 |  |
| Engage with AWS to conduct a “Carbon Footprint Framework Workshop” to learn how to leverage cloud technology and automate sustainability KPI measurement and set/manage decarbonization goals | Low | Medium | 2022-12-23 |  |
| EBA Accelerator: Conduct the "Data Center Exit" EBA session to build executive support and provide insights and actionable recommendations for board paper on Data Center portfolio restructuring. | Low | Short | 2022-12-09 |  |
| No action required | N/A | N/A |  |  |

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