



**BHADALE GROUP OF COMPANIES
- IT AND REAL ESTATE**



April 14 2018

Azure Cloud Services Catalogue-details

Bhadale IT Developers Pvt. Ltd CIN: TBD | Bhadale Real Estate Developers Pvt. Ltd CIN: TBD

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Bhadale Group of Companies

Bhadale Group of Companies consists of Bhadale IT Developers Pvt. Ltd and Bhadale Real Estate Developers Pvt. Ltd.

1. **Bhadale IT Developers Pvt. Ltd** is an IT and Computer Engineering company

This company provides consultation in areas of cutting edge technologies, research outsourcing, and software consultation related to data center and related engineering practices

2. **Bhadale Real Estate Developers Pvt. Ltd** is a Real estate company

This company provides development of commercial, residential and farm based developments. It manages the renting and lease of the real estate properties

Bhadale Group of Companies has aggressive programs in place to serve the niche market. Below are the programs and service offerings for **IT Division**

Bhadale IT Developers Pvt. Ltd Programs and Services

IT Division programs – specific to Microsoft Azure technologies

- 1 Cloud Architecture- Azure Cloud
- 2 AI – Azure AI and ML
- 3 Digital – Azure Digital Enterprise platforms
- 4 Automation - Azure automation
- 5 R&D services- Azure research areas
- 6 Engineering services – Azure engineering board reviews, audit, diagrams, approvals
- 7 Data center services – Azure datacenter setup
- 8 Outsourcing – Outsource your Azure jobs like remote help, tutor

There are various services offered under each program, details are described below

IT Division program related services

Cloud Architecture – Microsoft Azure specific

- Cloud Enterprise Architecture – Azure Enterprise platform / frameworks, & processes
- Cloud Business Architecture – Azure business tools, & frameworks
- Cloud Information / Website data Architecture – Azure webapps/ mobile apps, Bing maps, & Sharepoint website design
- Cloud Solution Architecture – Azure Solutions as per your needs
- Data center Virtualization and Cloud services (IaaS) – Hyper-V, Containers, Desktop/ Network, & Storage virtualizations
- Cloud Technical Architecture – Project specific – Best practices , design patterns based on MSDN
- Cloud ERP Solutions (SaaS, PaaS) – Office365, CRM, ERP packages , & integration
- Cloud Strategy and Transformation – Workshops, roadmaps and strategy
- Cloud Systems Integration and consolidation – Salesforce, Google, SAP, MS CRM , & LOB systems
- Cloud Project Management – Agile, TFS, Scrum templates, & PMP based techniques

- Cloud Pre sales support - Assist in design of material for presales deals, bid documents, & client meetings
- Business Needs (RFI/RFQ/RFP assistance)- Documents with Azure and alliances specific details for inventory, pricing, RoI, & Management
- Cloud Quality Initiatives – SLA, OLA, performance, cost optimizations, Corporate standards, ethics, & values
- Cloud Business Analysis – Analysis as per BABOK and MSFT/ partner tools for BA
- Cloud Infrastructure Planning – hardware , network, storage , backup (IaaS, PaaS)- Datacenter IT systems design, provisioning, commissioning and planning for future growth
- Cloud business portfolio assessment services (workshops) – Assess, enrich and support your portfolio of services as related to Azure and allied technologies

AI Azure

- Artificial intelligence and advanced machine learning - Azure AI Compute, Data science, Azure ML , Cognitive intelligence, AI Infra, AI tools and AI Services platform , & Deep Learning
- Intelligent applications, Intelligent things - Azure AI for IoT , & DataLakes
- Conversational systems – BOT Framework
- Mesh app and service architecture – Azure Service bus, Azure Service fabric, Micro-services, Smart grid, Gateways, & Enterprise Integration
- Adaptive security architecture- Deep Learning and predictive analysis, forecasting using tools, & algos.

Digital –Azure

- Virtual reality and augmented reality: VR, AR and Mixed reality(MR) from Microsoft; Hololens for MR; VR headset, VR ready PCs, Unity SDK, & VR SDK
- Digital twins – Azure IoT , MSFT Cognitive platform, Big compute, Analytics, Mixed reality & related SDK
- Blockchains and distributed ledgers – Azure hosting, SQL/No SQL DB, Security , Bitcoin mining, serverless computing, BizTalk services, Business partner exchange, Integration with Accounting ERPs, I/O remittances, claims settlements, & AI based fraud detections.
- Digital technology platforms – Azure private/ public, hybrid clouds, Solutions, Cloud best practices, Ready to use base VM and Containers as per domain, business and industry needs

Automation - Azure

- Robotic Process Automation – Blue Prism intelligent automation powered by Azure AI
- IoT - Azure SaaS for IoT(IoT Central), IoT Edge, IoT Services, Windows 10 IoT, & SDK for Raspberry PI
- Manufacturing robots - IoT solutions for Manufacturing robots
- BPO call center robots – Runbooks based VM solutions for BPO domain for backoffice automation, AI based chatbots for CRM, RPA for form filling, taking orders, notifications, & help desk automation etc
- Chatbots –AI based chat bots with SDK, interfaces to CRM, Cloud, industry / domain specific interfacing with expert systems to offer clients better results, good search, filtering and rollups of results, & use of hadoop for unstructured content like voice
- Remote workers - Azure IoT hub, IoT Edge integration, wireless communications, control using mixed reality to accomplish the remote task, AI and ML to correct any errors and fatigue related omissions.
- Hazardous jobs robots(Mine bombs, nuclear waste, underwater, space etc) - Uses same technologies as remote worker, however will have rugged parts, fit for jobs in odd places like nuclear plants, fire, underwater, collapsed buildings and where humans dare to risk their life.

R&D services – Azure based

- PHD mentor, buddy - for thesis support projects using Azure technology
- BPO - Outsourced work in areas of research areas related to IT and Computer Engineering - mainly for offloading research work related to azure for cost effective valued added- returns

Engineering services (Only Engg) – for Azure solutions

- Engineering services for Data centers – Datacenter layouts based on business and Azure needs, Server engineering, cable layouts, rack provisioning, power cables, routing boards, patch panes, fans, motherboard systems engineering, failover mechanisms, fire, plant safety, fire exits, & backup power / UPS
- Engineering services for IT Departments - Private cloud installation needs of premise, IT equipments, hardware-software interfaces, admin consoles, emergency management, IT failure management, quality certification, hardware level security, OS hardening, network firewalls, & premise management
- Engineering architectures, drawings, road ways, town house planning, parking, safety, outdoor maintenance, lighting etc - Datacenter external environment , landscaping, parking, restrooms, food court, licenses, audits, & approvals
- All other aspects of engineering: Civil, electrical, water and sewage, safety and mechanical motors, pumps, refrigeration, cooling – Civil bylaws, Electrical quality and proper metrics, levels, HVAC, waste water management, safety, workers laws, factory bylaws, corporate laws, fencing, & legality support

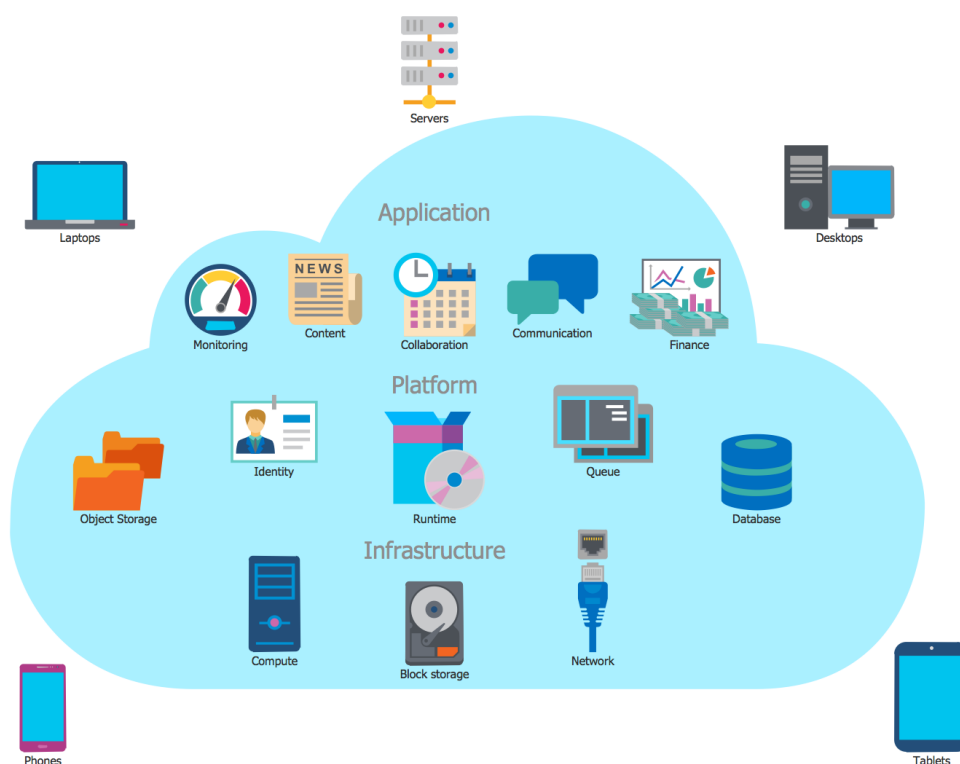
Data center services (Engg + IT) – for Azure

- Data center Engineering services – Same as above
- Data Center IT Services - IT software licenses for Azure OS, Windows, devices, SDK / tools, laptops, & server boxes
- Data center Security services – as per Microsoft recommendations, SDLC, threats, AI for preventive measures
- Data Center QA services- Certifications for datacenter like ISO, Green, & Energy saver
- Datacenter Cloud services – Provisioning of tenants for internal / external service offerings, SLA, OLA, metering, white labeling , custom domains, SSL, & cross- datacenter connectivity
- Datacenter compliances services- mainly related to audit, certification, & maturity management
- Data center based business solutions – assisting clients get loans, offer great service and obtain RoI in less time using various management and business techniques

Outsourcing

- Insourcing – Helping clients in in-sourcing of off-shored Azure operations and business units
- Outsourcing – help clients to reduce internal load and offloading to low cost centers
- Near sourcing – helps clients to gain max profit and benefits of other types of resourcing
- Cloud sourcing – Remote work done
- BPO services – using help desk, RPA, & Chatbot based automation
- IT specific services - Any client specific IT services as per request
- Engineering specific services – Offshored engineering works like drawing, layout planning, & security
- Training specific services – being part of your partner team, help clients to offer our services to their local clients

IT Division programs - Cloud Architecture – Azure services catalogue



CATALOG OF IT SERVICES OFFERED - extension of generic cloud offerings adapted to Azure

Service No	Service Name	Services offered
1	Cloud Enterprise Architecture for Microsoft Azure	<p>Microsoft Azure Enterprise platform / frameworks & processes that meets below criterias.</p> <p>Analyze cloud enterprise, define models (IaaS, PaaS, SaaS) and, architect cloud frameworks (based on Azure Cloud Stack, Office365) for business processes and infrastructure of the company's operating model(DevOps, InfoSec, KPI, Balance score cards, MIS, SDLC) to achieve the desired end state</p> <p>Alignment of existing enterprise on-premise infrastructure, deployment, DevOps, Production servers to make best use of the Azure offerings. Reoriented or design of newer platforms based on your business needs and that meets Azure datacenter and Devops specifications as specific to individual SaaS, PaaS and IaaS layers for Private, Public and Hybrid models.</p> <p>Generate/ reorganise artifacts that describe the logical organization of enterprise functions, business capabilities, business processes, people organization, and information resources (Cloud taxonomy, Meta-models).</p> <p>Detailed migration / implementation/ governance models based on Azure cloud</p>

		enterprise models, frameworks, and design patterns framework. Use of TOGAF cloud architecture guidelines
2	Cloud Business Architecture for Microsoft Azure	<p>Microsoft Azure business tools, & frameworks</p> <p>Articulate the functional structure of an enterprise cloud in terms of its business services and business information.</p> <p>Enumerate, analyze, catalog, and suggest improvements to the strategic, core and support processes of the business unit, as needed, to support strategic and operational goals.</p> <p>Generate business models (Value stream, Motivation, Stakeholders, End users, Org. maps, Capabilities) and to serve as a business foundation of the enterprise to enhance accountability and improve decision-making.</p> <p>Define the data elements shared between this business unit and other units in the enterprise and the relationships between processes, people, systems, (Inter-Department, Social, Mobility, Guests, Corporate needs, End user needs)</p> <p>Mapping identified gaps between the current architectural state and target cloud model state that affect underlying services, processes, people, and tools.</p> <p>Design business use cases diagrams using stencils from Conceptdraw, using business processes, entities, stakeholders, value-add, supply chain, process chain at various levels of details. Use of TOGAF cloud architecture guidelines</p>
3	Cloud Information / Website data Architecture for Microsoft Azure	<p>Azure webapps/ mobile apps, Bing maps, & Sharepoint website design</p> <p>Plan information architecture by studying the site concept, strategy, and target audience; envisioning architectural scheme, information structure and features, functionality, and user-interface design;</p> <p>Organize/ realign information by translating user behavior into media structure and elements; crafting interactive experiences;</p> <p>Create user scenarios; storyboards; preparing data models; designing information structure, work-and dataflow, and navigation for various form factors, devices and users ;</p> <p>Model Information based on Azure Application architecture /web apps/Mobile apps/ SharePoint sites/ Office365 SaaS layer, & TOGAF frameworks</p>
4	Cloud Solution Architecture for Microsoft Azure	<p>Azure Solutions as per your business needs</p> <p>Leverage the overall enterprise cloud vision in designing the projected solution and transforming that vision through execution into the programs / project work packages. Re organize solution bundles, develop alternate solutions</p> <p>Provide cross-domain, cross-functional and cross-industry expertise on various technologies to fulfill the solution stack needs as per Azure alliance / partner</p>

		<p>solution offerings</p> <p>Model the hi-level conceptual, logical, physical and deployment components as solution bundles (main and alternate); showcase the ROI in each case.</p> <p>Retain clear boundaries for various models, layers, deployments, service offerings, tenant subscription models, SLA and business needs of the horizontal or vertical units of the client operations. Map solutions to business use cases and requirements to retain the traceability and manageability of the various life cycles, TCO and OPEX.</p> <p>Design components that will be used to implement the required capability, KPIs, SLA, functional, non-functional metrics based on Azure solutions guidance documents</p>
5	Data center Virtualization and Cloud services (IaaS) for Azure	<p>Hyper-V, Containers, Desktop/ Network, & Storage virtualizations</p> <p>Provide onsite customer virtualization assessments for Cloud Computing framework (IaaS & PaaS integration) and deployment models (Private, Public, and Virtual Private), On-demand self-service, Tenant isolation types, ID and Info sec for each tenant, groups, policies and virtual environments. Special attention to OS level security, networking and Shell commands, Windows OS, Network interfaces, Layer 4/7 traffic flows and anti-hacker protection integrated with hardware, bios and external interfaces. Corrections to segment faults , memory issues, boot issues and any performance hits that can reduce the response time</p> <p>Design and implementation of customized technical virtualization solutions for customers in the Data Center, Desktop, Mobile and in the Cloud using various offerings from Microsoft and alliance partners. P2V, V2P, Normalised server VM images, ready to use VM templates, ARM based config and integration with external environments for resource pool management, low level communications with cross-platform, cross datacenter, cross zones and all that is needed at various layers of the 7 layer OSI model.</p> <p>Develop solutions for data protection, disaster recovery, and BCP and application requirements that provide required level of isolation, security, performance, availability and good integration with OS variants, Kernels, Linux, Java, Python and X-plat commands that work well. Automation using worker roles, schedulers, garbage collectors, snapshot, backups & scripts.</p> <p>Generate deployment models at various locations (corporate in-house, collocation, managed) for IaaS setup with bare metal and Hyper-visor modes, Containers with managers like Kubernetes. Leverage best practices and design guide of Azure datacenter & private clouds.</p> <p>Highly trained licensed Engineers will handle the operations of low level computer organizations, design layouts, hardware level settings etc who have deep knowledge of the engineering skills, metrics and troubleshooting</p>
6	Cloud Technical Architecture – Project	<p>Best practices , design patterns based on MSDN</p>

	specific for Azure	<p>Analyze system, application, business, data tier requirements; gap fit analysis for functional and non-functional requirements; update existing systems, solution components to fulfill the exact needs and the meets Azure specifications.</p> <p>Define taxonomy/ data dictionary of platform services (PaaS & SaaS) and logical technology components (including standards); refine the taxonomy; mapping product technical specifications to project; determine configuration of the selected technology. Apply the Azure entities to the projects entities like MVC pages, ER diagrams, mounted dbs, persistence, state configurations, and desired state config. Provide Azure portal blade level settings, shell commands, web/worker roles, service bus/ fabric, network settings, IP Config, gateway config etc</p> <p>Identify relevant applications/ tiers where Azure technology is to be applied; carry out a physical inventory to fit into the taxonomy of the projects and tenants</p> <p>Provide technical guidance for sizing and costing, capacity planning, installation/governance/migration impacts, performance, maintainability and availability as per SLA/OLA needs, metering, billing and other cloud specific operations</p> <p>Work on the DevOps requirements, integrate with TFS, external repositories, Monitoring SCCM, SCOM, Datacenter control panels, Insights, logging, backup, disaster recovery configuration settings, and many more features as required to fulfill the requirements</p>
7	Cloud ERP Solutions (SaaS, PaaS) for Azure	<p>Office365, CRM, ERP packages , & integration</p> <p>Design, deployment and implementation guidelines for MS Dynamics in Azure, SAP HANA ERP hosting on Azure, as per the required ERP modules like NAV, AX, & GP</p> <p>Special packages (SaaS) for BFSI, Telecom, Oil, Transport, SME, PaaS platforms using ready-to-use VM snapshots, configurations and sandboxes for prototype and development/ test / DevOps.</p> <p>Integration solutions for Office365 with sharepoint, MS CRM, MS Dynamics, AD Identity migration from on-premise to cloud, integration of AD groups and migrating kerberos, SSO based security features to cloud for web and mobile platforms.</p> <p>Special care taken to address the remapping of the logic, business processes, removal of redundant paths, services and features not supported in Azure and assuring best alternative solutions.</p> <p>Assisting in choosing the right features, tools, pricing, tiers, and metering that will help you with the right size and pricing models for desired Opex and operational costs.</p>
8	Cloud Strategy and Transformation for Azure	<p>Workshops, roadmaps and strategy</p> <p>Create strategies and plans that define how information technology should be utilized to support an organization's overall Azure cloud strategy.</p>

		<p>Assist in designing the blue prints, roadmaps, key milestones, deliverables along with the course of transformation and migrating to a newer platform and environment. Assist you in reengineering your business processes, making them agile and open for cloud based services, scalability and availability. Provide you with proofs of productivity and RoI for the investments that you will be committing.</p> <p>Assist in setting up BPO, KPO, R&D off shoring on Azure SaaS, PaaS models.</p> <p>Design of Azure stack/private, public, hybrid cloud to suite your business models for in source; outsource of your corporate, partners engagement using BizTalk B2B solutions, integrated with existing and new ERP modules as required.</p> <p>Assist in finding the best cost management (CapEx, OpEx) of your assets, inventory, manpower, how each role can utilize cloud power to drive automation of IT dept, Devops agile processes to help reduce costs. Providing you with the standard set of operational tools, forms, documents and digital assets that are going to be transformed to digital form. Assist you in integrating the HMI, hardware, printers, electronic devices and corporate resource asset pools that are classified as IT services</p> <p>Strategy and roadmap development to leverage/Reuse existing IT assets, migration models, What-If analysis, simulations, proof of concepts, licensing cost optimization, trainings, resource pooling, labour compliances, rebranding, white labeling, domain mapping, security features, digital certificates, local legal compliances, and matter that are of top concern to you.</p> <p>Act as broker, in making your journey smooth in cloud migration.</p>
9	Cloud Systems Integration and consolidation for Azure	<p>Salesforce, Google, SAP, MS CRM , & LOB systems</p> <p>Design of Roadmap for integration at various layers, processes, tiers for desired performance, throughputs, availability, upgrades and patch management (server and client), insights of apps and systems, key tool being the Azure service bus, Azure service fabric, & BizTalk services</p> <p>Design of processes and consolidation as per desired end / future state of the cloud farm/ system. Leverage of newer Azure features and technology to arrive at a optimized state of the server farm, persistence, error management, disaster recovery and SLA compliant</p> <p>Process integration across various project modules and other IT applications based on TCP/IP and OSI technology stack, Converged racks , Open stack, Open API, Kerberos, AD, SAML, Digital certificate, domain mapping, traffic manager, gateway / firewall, services end points configuration, virtual device configuration , gateway, off-loader services , hardware configuration for virtual resource pooling, configuration of cross- domain, cross-datacenter, for application, systems, storage, databases, fault and update domains.</p> <p>Configuration of devices like Dell Boomi, BizTalk, Informatica , Azure fabric, IBM Web sphere/ cloud foundary, Oracle Fusion, Open API to interface with other clouds like Amazon, IBM Bluemix, & Google cloud to enable integration and smooth transition</p>

10	Cloud Project Management for Azure	<p>Agile, TFS, Scrum templates, & PMP based techniques</p> <p>Azure management practice setup: Cloud PMO, Agile cloud, Devops, Disaster recovery, BCP, Industry STDs, Compliance, Audit, Governance, Corporate matters</p> <p>Azure Project /Program development, agile management and integrate with cloud operations on a 24x7, 365 with 99.99% availability models.</p> <p>Design Azure project scope(webapps, mobile apps, hybrid apps, Azure stack, various other Visual studio/GitHub projects), track goals and deliverables; define project tasks and resource requirements; manage project budget;</p> <p>Define newer cloud roles, train the staff, knowledge transfer of the new roles, jobs they manage and transition plans to move to cloud models and operations management as related to DevOps, use of Github, repositories, dev/test/prod environments, work estimates/ schedules, deliverables, milestones, Gantt charts, agile entities like sprint backlog, burn charts, daily meetups, min. viable deliverables, client approvals, meetings, etc .</p> <p>Planning, executing and oversight of projects that may be within company, external vendors premises and other onsite/offshore model of engagement; reducing risks of dependency, non-competent staff, non-confirming standards, approvals from auditors, gated verifications, validations and approvals from seniors and peers.</p> <p>Respond to changes to identify alternate suppliers, reassign personnel, or cut the budget in other areas to compensate for cost overruns. Track using PMP tools, submit reports, weekly, quarterly, regular ones and any shop-stopper concerns and red flags like hot spots in monitoring tools, overruns in budgets, staff, idling etc</p> <p>Generate project estimates, schedules, deliverables, critical path, root cause analysis, defect tracking and resolutions as per CMM and Azure project templates. Design an integrated view of all the DevOps, managerial, architectures and client views of the project/program to enable better satisfaction as per quality and cost provided.</p>
11	Cloud Pre sales support , for Azure	<p>Assist in design of material for presales deals, bid documents, & client meetings. Business use cases, feature-benefits, value-adds, RoI, Opex vs Capex, Investment analysis, migration paths, productivity, staff trainings and any concerns and clarifications that client needs.</p> <p>Engage with clients, partners and external agencies as part of the presales activities, warm calling, meeting invites, service offerings, follow-up and reminders.</p> <p>Provide list of Azure approved partners/ vendors, tools for your Dev team to engage and work on the implementation aspects of the Azure project.</p> <p>Help you in identifying low cost off shoring teams, verification of technical background, interviews and on-boarding them to the team.</p> <p>International procurement, management of your licenses, warehouse for logistics, inventory, auditing and travel management.</p>

12	Business Needs (RFI/RFQ/RFP assistance) for Azure	<p>Generate Azure documents for inventory, pricing, RoI, & management and response to key queries w.r.t the staffing, financing models, business engagements, strategic alliance, partner know-hows, demos, & road shows. Assist in proactive/ cold engagements and reactive sort of engagement models. Assist in mentoring the sales team in areas of language, international culture, writing, emails, letter types, proposal details etc</p> <p>Design Azure sales/solution packages for all your target clients: home business, SME, large corporations, of all ages: kids to old aged , starting from one page flyer to e-commerce advertisements for paper, TV and social media</p> <p>Projecting companies Azure solutions and offerings in response to RFP/ RFI in best possible way that adheres to Azure cloud standards, compliances and expert advises as provided to partners.</p>
13	Cloud Quality Initiatives for Azure	<p>SLA, OLA, performance, cost optimizations, Corporate standards, ethics, & values</p> <p>Help you to mature across your Azure cloud offerings based on selective alignments to industry models, standards that best suit your clients, target groups that help you have an edge. Few quality assessments are for ISO, CMMI, Cloud-Alliance quality certifications, Datacenter Quality certifications.</p> <p>Help you in brand building your cloud offerings, sales, marketing, international presence, offshore venturing, office setup in free trade zones free trade zones as per cost-quality comparison.</p> <p>Identify quality courses, training for staff, custom content to suite your tools, domain and material from Microsoft and alliance partners. We will map the quality processes into your corporate documents and into the skill sets of your employees that help you adapt quickly to the quality standards. We offer measurements workshops and sandbox prototype testing before a change request is injected into production. This helps avoid major mishaps, bugs and wrong code getting into production environment.</p> <p>Onsite visits, training, site inspection, meeting, audits, based on the requirements and certifications. We have highly educated professional licensed engineers who provide quality initiatives right from base foundation/plant layout, data center structures, civil works, amenities, IT safety, business continuity, documentation and place you high in the quality maturity index for your services. We boast of having a team of Chartered Engineers and Fellow from reputed societies like Engineers Australia and Engineers Canada</p> <p>Assist staff to get certified in cloud papers, ISO quality initiatives and other exams by way of boot camps, training workshops, in house trainings, offering your apprenticeships at client locations where they have successfully implemented our offerings.</p>
14	Cloud Business	<p>Analysis as per BABOK and Microsoft analysis guidance / partner tools for BA</p>

	Analysis for Azure	<p>Analysis to retain, migrate, sunset assets, new developments for your business to move to cloud models. This will include workshops and interactive Q&A and short listing of the key business needs, redundant services, and brings up newer and better ideas of injecting innovative and fresh offerings into your service portfolio that will make your business better.</p> <p>Elicit cloud requirements(models, landscapes, costs, GUI, IP, Security) using interviews, document analysis, requirements workshops, surveys, site visits, business process descriptions, use cases, scenarios, business analysis, and workflow analysis. Assist upper management to get an insight of the existing business processes, offerings and mode of deliverables from your service offerings.</p> <p>Critically evaluate information gathered from multiple sources, reconcile conflicts, decompose high-level information into details, and capture them as needed by BABOK in Business Analysis / Requirements documents. Develop a change management, gated, validation and verification process of the work under scope and provide the impact analysis from the desired change.</p> <p>Mapping the business processes to the cloud business models of IaaS, PaaS, SaaS and various tiers like Application, Business, Database for multi-tier distributed service offerings.</p> <p>Business Impact analysis, Capex , OpEx, ROI, Cash flows, Feature-Benefits models to help business improve the insights, be agile and adopt Azure cloud.</p> <p>Develop a database of working corporate assets / documents regarding the business, its offerings and processes and subject these to quality programs as needed to ensure best outcomes with least investments and reduced supply chains is possible. Injection of automation, AI/ML and use of software to detect anomalies, wastage, idling and processes that are adding little value.</p>
15	Cloud Infrastructure Planning / Implementation – hardware , network, storage , backup (IaaS, PaaS) for Azure	<p>Hardware , network, storage , backup (IaaS, PaaS)- Datacenter IT systems design, provisioning, commissioning and planning for future growth</p> <p>Assist in evaluating newer cloud technologies/ features in Azure cloud (Hyper-V, Containers/ Managers , Microservices) that are related to infrastructure with entities like servers, VM, Virtual Networks, Virtual database pools. Help in identifying the inventories, their usage, value-add and any room for improvements. Leverage the methodology as Infrastructure as a Code (IaaSC) that can be easily configured, layout changes and changes that are agile and flexible to change as per subscribers/ tenants change request, solution bundles, selections, plans and SLA requested.</p> <p>Suggest newer systems designs for compliance with cloud standards and architectural layouts for cloud migration, on-premise, cloud integrations and info security. Assist in identifying redundancy , consolidation methods and the possible future production environments</p> <p>Implement and monitor site based infrastructure requirements and plan and design the necessary upgrades or additional infrastructure as required like Desired</p>

		<p>state configuration, auto-provisioning, asset monitoring, alerts / notifications/ and troubleshooting of showstoppers that are not covered under SLA or cloud policies.</p> <p>Develop guidelines and upgrade techniques for new operational procedures for the support of databases, hardware systems, operating systems software, network systems software, security and client-server/ tenant systems. This will involve use of latest software, servers, SDK and prototypes for your DevOps.</p>
16	Cloud business portfolio assessment services (workshops) for Azure	<p>Assess, enrich and support your portfolio of services as related to Azure and allied technologies</p> <p>Workshops to show the investments ROI, Opex, Cap ex, for you to start looking at the available options, models, financing /purchasing/ leasing terms . We help you in subjecting your existing models, methodologies and awareness to the requirements of Azure, its offerings and what to expect from adapting Azure in your corporate.</p> <p>Along with business analysis, we help you to get closer to the working business models as offered by Azure.</p> <p>We develop proof of concepts with selected partners to show you how your new environment looks and which models that offer you the best results for the investments you plan to make.</p> <p>Work with stakeholders to develop a portfolio management governance process that is well integrated into other IT processes.</p> <p>Provide recommendations related to changes needed in the functional unit, governance model or changing the value chain process to ensure best results</p>

AI services (general services can be availed from other programs like Cloud to enable matured solutions)

Service No	Service Name	Services offered
1	Artificial intelligence and advanced machine learning -	Azure AI Compute, Data science, Azure ML, , Cognitive intelligence, AI Infra, AI tools and AI Services platform , & Deep Learning
2	Intelligent applications, Intelligent things -	Azure AI for IoT , & DataLakes
3	Conversational systems	– BOT Framework
	Mesh app and service architecture –	Azure Service bus, Azure Service fabric, Micro-services, Smart grid, Gateways, & Enterprise Integration

4		
5	Adaptive security architecture-	Deep Learning and predictive analysis, forecasting using tools, & algos.

Digital –Azure services (general services can be availed from other Programs like Cloud to enable matured solutions)

Service No	Service Name	Services offered
1	Virtual reality and augmented reality	VR, AR and Mixed reality(MR) from Microsoft; Hololens for MR; VR headset, VR ready PCs, Unity SDK, & VR SDK
2	Digital twins	– Azure IoT , MSFT Cognitive platform, Big compute, Analytics, Mixed reality & related SDK
3	Blockchains and distributed ledgers –	Azure hosting, SQL/No SQL DB, Security , Bitcoin mining, serverless computing, BizTalk services, Business partner exchange, Integration with Accounting ERPs, I/O remittances, claims settlements, & AI based fraud detections
4	Digital technology platforms –	Azure private/ public, hybrid clouds, Solutions, Cloud best practices, Ready to use base VM and Containers as per domain, business and industry needs
5		

Automation – Azure services (general services can be availed from other Programs like Cloud to enable matured solutions)

Service No	Service Name	Services offered
1	Robotic Process Automation	– Blue Prism intelligent automation powered by Azure AI
2	IoT	Azure SaaS for IoT(IoT Central), IoT Edge, IoT Services, Windows 10 IoT, & SDK for Raspberry PI
3	Manufacturing robots -	IoT solutions for Manufacturing robots

4	BPO call center robots	Runbooks based VM solutions for BPO domain for backoffice automation, AI based chatbots for CRM, RPA for form filling, taking orders, notifications, & help desk automation etc
5	Chatbots	AI based chat bots with SDK, interfaces to CRM, Cloud, industry / domain specific interfacing with expert systems to offer clients better results, good search, filtering and rollups of results, & use of hadoop for unstructured content like voice
6	Remote workers	Azure IoT hub, IoT Edge integration, wireless communications, control using mixed reality to accomplish the remote task, AI and ML to correct any errors and fatigue related omissions.
7	Hazardous jobs robots(Mine bombs, nuclear waste, underwater, space etc) -	Uses same technologies as remote worker, however will have rugged parts, fit for jobs in odd places like nuclear plants, fire, underwater, collapsed buildings and where humans dare to risk their life.

R&D services – Azure based services (general services can be availed from other Programs like Cloud to enable matured solutions)

Service No	Service Name	Services offered
1	PHD mentor, buddy	- for thesis support projects using Azure technology
2	BPO - Outsourced work in areas of research areas related to IT and Computer Engineering	- mainly for offloading research work related to azure for cost effective valued added- returns Engineering services (Only Engg) – for Azure solutions

Engineering services (Only Engg) – for Azure solutions

Service No	Service Name	Services offered
1	Engineering services for Data centers –	Datacenter layouts based on business and Azure needs, Server engineering, cable layouts, rack provisioning, power cables, routing boards, patch panes, fans, motherboard systems engineering, failover mechanisms, fire, plant safety, fire exits, & backup power / UPS
2	Engineering services for IT Departments -	Private cloud installation needs of premise, IT equipments, hardware-software interfaces, admin consoles, emergency management, IT failure management, quality certification, hardware level security, OS hardening, network firewalls, & premise management

3	Engineering architectures, drawings, road ways, town house planning, parking, safety, outdoor maintenance, lighting etc	- Datacenter external environment , landscaping, parking, restrooms, food court, licenses, audits, & approvals
4	All other aspects of engineering: Civil, electrical, water and sewage, safety and mechanical motors, pumps, refrigeration, cooling	– Civil bylaws, Electrical quality and proper metrics, levels, HVAC, waste water management, safety, workers laws, factory bylaws, corporate laws, fencing, & legality support

Data center services (Engg + IT) – for Azure

Service No	Service Name	Services offered
1	Data center Engineering services –	Same as above
2	Data Center IT Services -	IT software licenses for Azure OS, Windows, devices, SDK / tools, laptops, & server boxes
3	Data center Security services –	as per Microsoft recommendations, SDLC, threats, AI for preventive measures
4	Data Center QA services-	Certifications for datacenter like ISO, Green, & Energy saver
5	Datacenter Cloud services –	Provisioning of tenants for internal / external service offerings, SLA, OLA, metering, white labeling , custom domains, SSL, & cross- datacenter connectivity
6	Datacenter compliances services-	mainly related to audit, certification, & maturity management
7	Data center based business solutions –	assisting clients get loans, offer great service and obtain RoI in less time using various management and business techniques
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Outsourcing services – for Azure

Service No	Service Name	Services offered
1	Insourcing –	Helping clients in in-sourcing of off-shored Azure operations and business units
2	Outsourcing –	help clients to reduce internal load and offloading to low cost centers
3	Near sourcing –	helps clients to gain max profit and benefits of other types of resourcing
4	Cloud sourcing –	Remote work done
5	BPO services –	using help desk, RPA, & Chatbot based automation
6	IT specific services -	Any client specific IT services as per request
7	Engineering specific services –	Offshored engineering works like drawing, layout planning, & security
8	Training specific services –	being part of your partner team, help clients to offer our services to their local clients

For more information, please contact us.

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