BHADALE GROUP OF COMPANIES - IT AND REAL ESTATE

April 25 2018

Datacenter Services Catalogue for Azure -detailed

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.
- Hazarders 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

Service details for Bhadale IT Developers Pvt. Ltd

IT Division programs – Datacenter Services – Azure (Engg+IT)

Image Courtesy (The web)

CATALOG OF Datacenter services - extension of generic cloud offerings adapted to Azure

Service No	Service Name	Services offered
1	**Data center Engineering services for Azure**	This is a cross-program service and is similar to the Engineering services offered. Specific solutions can be made as per request. Please **refer the Engineering catalogue** for further details Our services include analysis of your server needs (specific to Data Center) like **power cabling, instrumentation, firmware, performance, board level inspections, add on cards, swapping, server racks hosting in bays, power supply, termination using electronic stubs, EM shielding, intra server, intra campus cable layouts, use of special gadgets like FPGA for speed,** and providing you a tailor made solution to your needs that will speed up your job in making a successful leap towards your intended data center and maintain the availability as per SLA, OLA, Legal certifications, Energy saver status and many more compliances and regulatory needs.
2	**Data Center IT Services - Azure**	IT software licenses for Azure OS, Windows, devices, SDK / tools, laptops, & server boxes, **MAP tool, Capacity planning, Migration wizards** for tiered layers and from other cloud vendor These are based on **IT framework**, guidelines as prescribed by Institutes like ISO, Microsoft, Cisco, Dell-EMC and newer alliances standards and protocols Our services include analysis of your IT needs (IT Dept in-house requirements) like **Software licenses, Hardware licenses, IT capacity, installation of OS, patches, device drivers, partition of server memory, storage, virtualization software, server roles, DMZ, Service bus**, cloud roles, **third party packages, security tools for**

		Windows, Linux, software for perimeter / peripheral devices and providing you a tailor made solution to your needs that will speed up in making your job a successful leap towards your intended goal. Devops, dev/test/production environment setup, installation of **ERP, MS office, Office 365**, RBAC, AD**, Azure service bus integration** with existing on premise and cloud servers, website hosting, domain registrations, setting up repositories and GitHub integration. We can help you **set up the IT help desk, program office, development tools** and a variety of partner tools that will help you get to your mission and project goals , increase productivity and offer required trainings to assist developers, managers and program officers get acquainted to the Azure environment, dev tools and project demos. We help you in getting on the **right roles, teams and tools**/ PM that will help you get the right set of assets that will add value to you and your clients We will **reuse your existing assets, resources, team and partners** in getting your Azure environment up to date; we can act as brokers to external teams, QA, auditors and local bodies in getting you the IT department approvals and anything we can offer.
3	**Data center Security services- Azure**	We offer to assist you with **Microsoft recommendations** on quality, threats, assessments, security SDLC models, threats, **ISO 27001, HIPAA, FedRAMP, SOC 1 and SOC 2, CJIS, IRS 1075, ITAR, General Data Protection Regulation (GDPR), ISO/IEC 27018, and use of** AI for preventive measures**;** We help you with the assessments and compliance for **security frameworks (ODCA Data Security Framework, SOC 2, SSAE 16, NIST Special Publication 800-144, SANS)**, 10 domains of CISSP, Anti-hacker policies, standards and common international standards. We follow Indian, **North American and European standards**. Our services include **providing guidance, assistance and first level designs for the Datacenter Infosec**. We provide you an integrated and comprehensive security **infrastructure planning** with first level drawings (**Auto CAD**), **first level security metrics, Inventory estimates, cost estimates** for the intended mini-datacenter/ special economic zone. Our team are **certified in CEH, CISSP and IT risk** and management and will offer threat assessments, penetration testing, vulnerability scans, perimeter analysis, port level tests, cross-site scripting OS hardening and hardware devices security features like **Bitlocker, enclaves**, lost device's remote swiping, **biometrics** etc
4	**Data Center QA services- Azure**	Certifications for **datacenter quality standards**, green, & energy saver standards; **QA solution architectures** for use cases in areas of predictive maintenance, anomaly detection, server faults, server heat maps, remote failures and many more

hardware, software related risks.

We **analyze the risks at various levels**, tiers and engineering parts/ components and allied infrastructural faults. We assist in designing the monitoring of assets by use of instrumentation, OS logging, server loggings and any KPI metrics needed to reduce risk and avoiding surprises. **QA helps in providing paths for systematic failures** (if any), **reduced time to recovery** and assuring the SLA are met.

We **conduct assessments** using quality frameworks, standards (**ANSI/TIA-942, ISO 9001, ISO 27001, ECRIN certification)** and common international standards. We follow Indian, **North American and European standards**.

We offer **QA assessments of operational systems, apps and infrastructure** as related to Azure and its partner products based on the requested scope, complexity and function points. We will recommend suitable tools for various testing for **white/black/ smoke testing** and can offer you test team who will conduct various code levels, system level, datacenter level test cases. We can offer **licensed IT and engineering staff** based on the requirement.

Our services include assisting you in getting the first level of all the **QA activities, costs, and staff training** of the various KPI, SLA/OLA, datacenter modules, and management metrics to bring up the infrastructure and maturity model and generating the **gap fit analysis/ hot charts** that will enable you to procure only the required tools for certification that will ensure with less operations cost, less wastage, in time services and related safety of the occupants

We have earlier provided testing for 1 MLOC for .Net applications and HMI interfaces

5	**Datacenter Cloud services- Azure**	Focus is more towards cloud services, **compliance as per NIST cloud standards** and Azure cloud features and SLA.

IaaS, PaaS, SaaS based tiered services for Azure and related cloud technologies. These are based on **cloud frameworks** (Microsoft Azure), **cloud models** (Private, public and hybrid) and **your requirements**.

We offer mapping of your business needs onto cloud platform, provisioning of tenants for internal / external service offerings, SLA, OLA, metering, white labeling, custom domains, SSL, & cross- datacenter connectivity. Setting up of AD, SSO, Digital certificates and IP, Key vaults and integration with the on-premises and existing LOB servers and apps

Our services include providing you the first hand information of the cloud leader **offerings, roadmaps, financials, ROI** and implementation guidelines. We provide you initial free consultation for the features and later on value-added services in **design, development, migration, operations and governance of the cloud;** we also recommend the best possible investment alternatives that ensures your business

		adopts to the required cloud model We have recently designed private datacenter model for a retail store in Canada
6	**Datacenter compliances services-Azure**	Compliance w.r.t clients, **domains, region, and hosted datacenters for Govt, B2B, B2C, peer-2-peer, service provider** and other topologies as desired by the investors and stakeholders; Analysis of your **current scope of compliances** and progression in their maturity models for **technical, financial, bylaws, local bodies**, client-specific requirements for IP, GUI access, RBAC, policies, **governance, enterprise frameworks, and cloud standards.** We assist you in areas of audit, certification, & maturity management as required for annual recertification, new rules and updates to the corporate strategies and **board review meetings**. Our services include **annual compliances, feedback mechanism, control loop for the audited inputs**, internal inspection reports, report management, metrics analysis, **improvement programs** and staff training to ensure best possible compliances and better service to end clients We offer services **of chartered accountants, company secretaries, lawyers**, **fellow engineers, IT risk and quality certified professional that will help you in your operations**
7	**Data center based business solutions-Azure**	Focus is on your **business domain, capex, opex, inventory, staff management**, billing, payrolls, venturing, international deals, partner management and alliances. This is purely business and non-technical assistance. For technical part you can avail our other offerings as suitable. We assist you in **getting discounts, loan approvals, strategy** and service design and development. We can help you get on boarded to **MS sponsored accelerators**, seminars, workshops at Microsoft campus and partnership management Our services include solution for s**tartups**, home business, One person company, and private societies that might not have the possible solution maker. We help you in the approvals for grants/ loans, business presentations, market intelligence and all that is needed for your business to start and operate. You can take our services based on need basis, regular and as external service providers. We offer **trainings, workshops, sessions, demos, proof of concepts**, and anything that we can legally offer and acceptable to you.

For more information, please contact us.

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