

HPC AZURE CLOUD FOR BIG DATA – 5 days PoC

HPC AZURE COMPONENTS

- **Azure Resource Manager**- Enables application deployments to clusters
- **HPC Head Node** - Enables job scheduling and scheduling of workloads to worker nodes
- **Virtual Networks** - Enables creation of isolated networks for clusters and storage through Express Route
- **Virtual Machine Scale Sets** - Enables provisioning of VMs for clusters
- **Storage** - Enables storage for clusters in the form of disk, file, blob and data lakes

Managing HPC Deployment on Azure- Tools

- **Microsoft HPC Pack**- Enables configuration and management of VM clusters, monitoring operations, and scheduling workloads
- **Azure Cycle Cloud**- Scheduler interface
- **Azure Batch**- Enables autoscaling of deployments

Benefits of running HPC on Azure for big data

- High Availability
- High Scalability
- Lowered Costs
- Efficient workload distribution

iSmile Technologies Deliverables

- Scaling to hundreds of petabytes without downtime and outages
- Complete data management
- Integration of all operating systems and applications
- Implement high performing storage for I/O intensive workloads
- Implement HDPAs capabilities for large data processing and analysis
- Implementing compute intensive resources to deploy big data workloads on the existent infrastructure
- Big data storage solutions on Azure through Azure NetApp Files, BeeGFS, Storage Optimized Virtual Machines, Blob, table, and queue storage, Azure SMB File storage
- Deploy workload managers, applications and infrastructure with Azure Resource manager templates
- Orchestrate job, data and cloud workflows

About Us:

iSmile Technologies is a global technology services company that helps businesses compete by adopting disruptive technologies such as advanced analytics, big data, cloud, databases, DevOps, and infrastructure management to advance innovation and increase agility.

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