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Azure Fundamentals

Lesson Objectives

At the end of this module you will be able to:

- ✓ Understand the fundamentals of Microsoft Azure
- ✓ Get an overview of Azure services
- ✓ Get an idea of Azure portal and its navigation

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Microsoft Azure

- Microsoft Azure is a comprehensive cloud platform that enables solutions based on individual challenges and needs - with the benefits of a public cloud service.
- Azure can be described as a growing collection of integrated cloud services that developers and IT professionals can use to build, deploy, and manage applications through a global network of datacenters.

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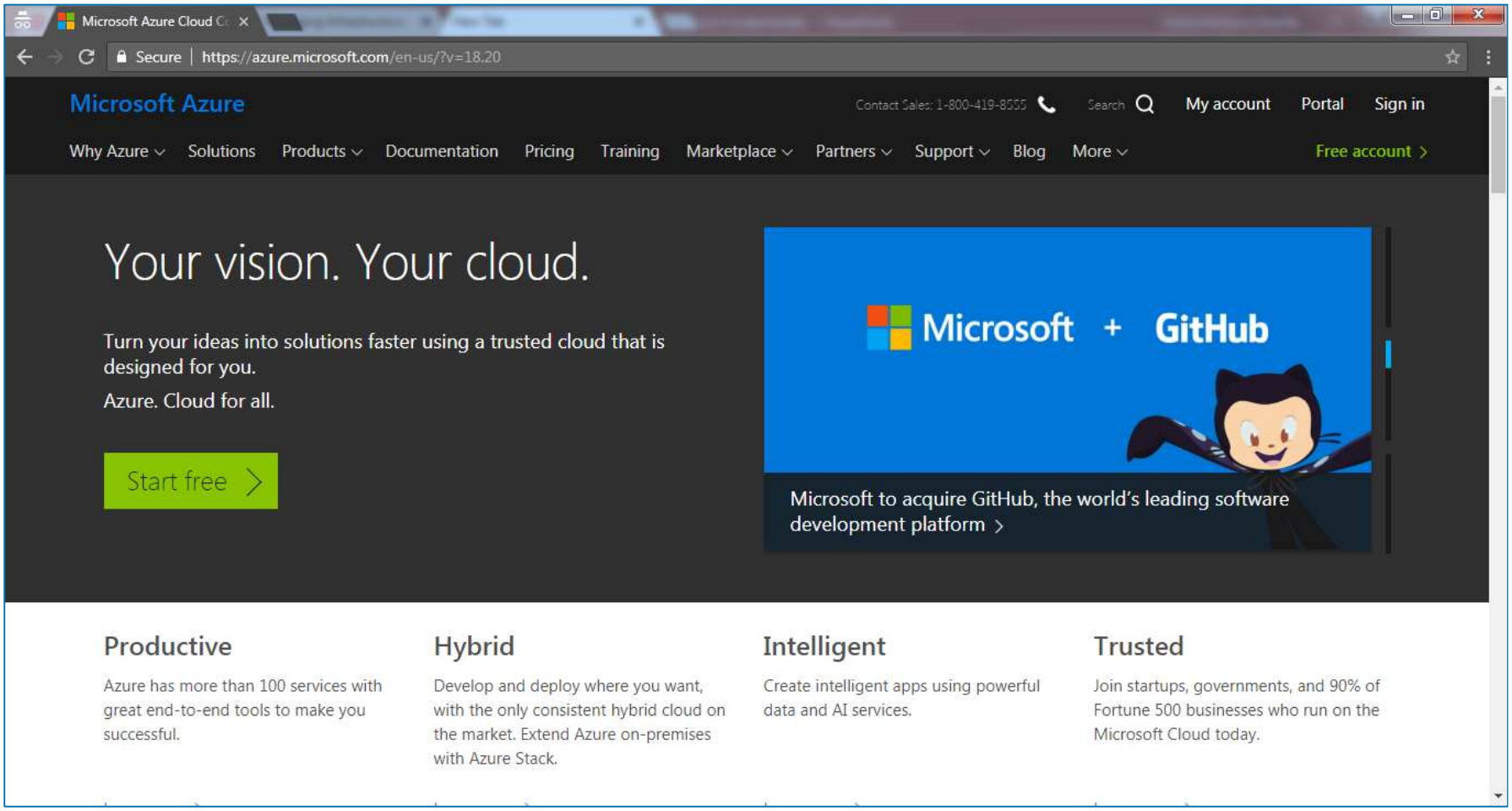
Getting Started with Azure



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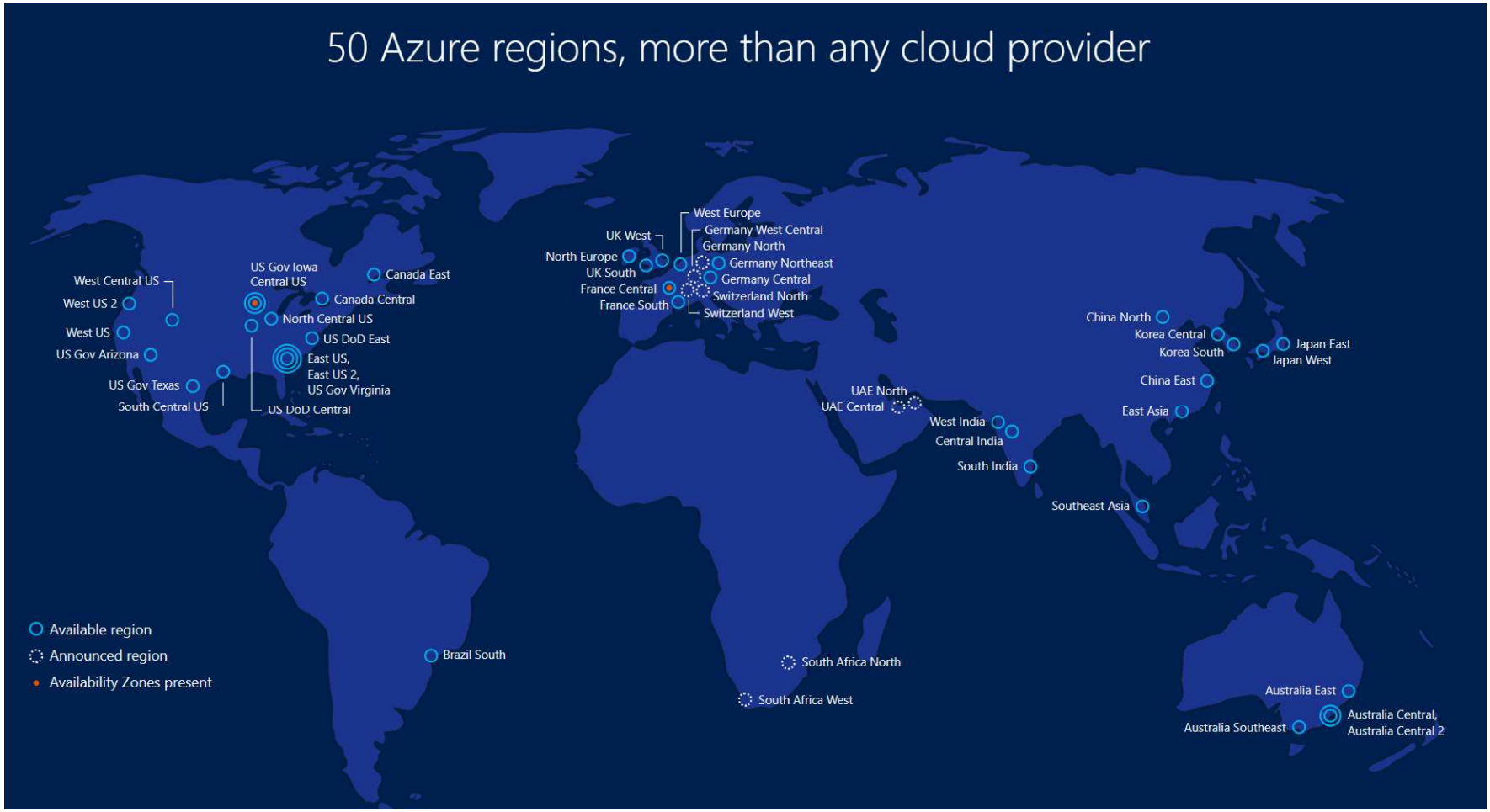
Azure Datacenters



Source: azure.microsoft.com

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Confidence in the trusted cloud

- Azure has more comprehensive compliance coverage with more than 70 compliance offerings

ISO/IEC CSA/CCM ITAR CJIS HIPAA IRS 1075

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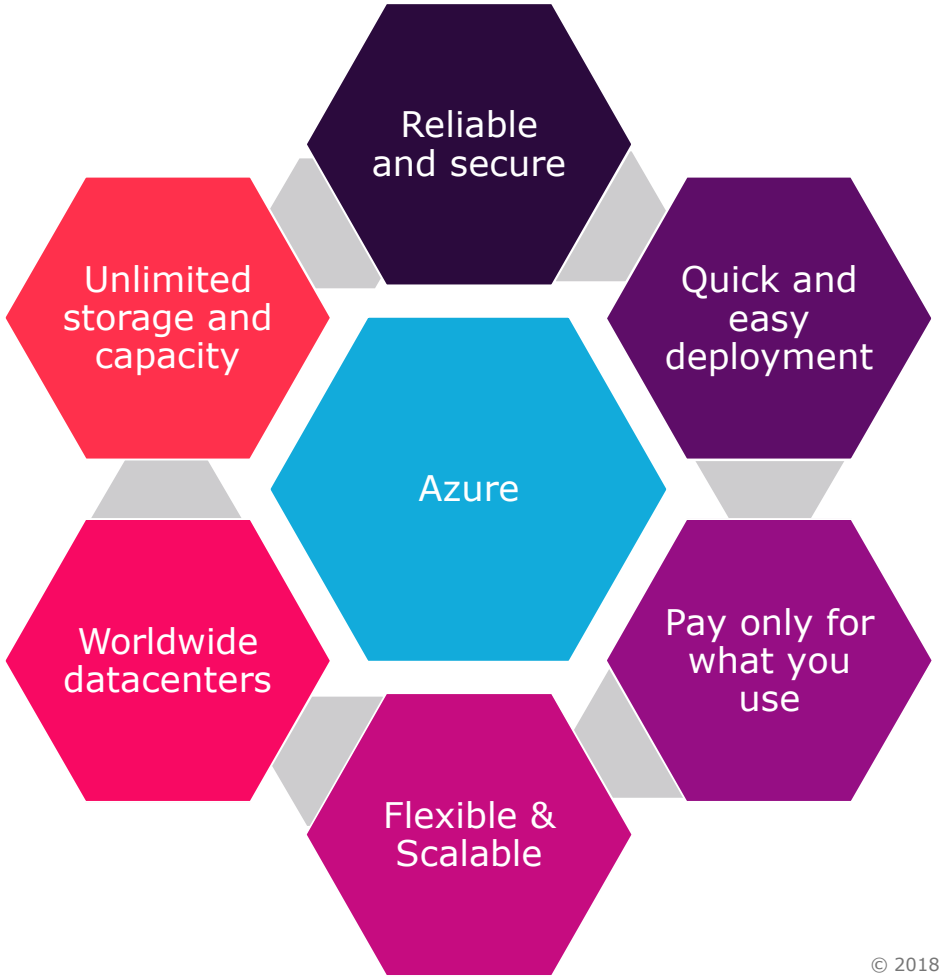
Benefits of Microsoft Azure



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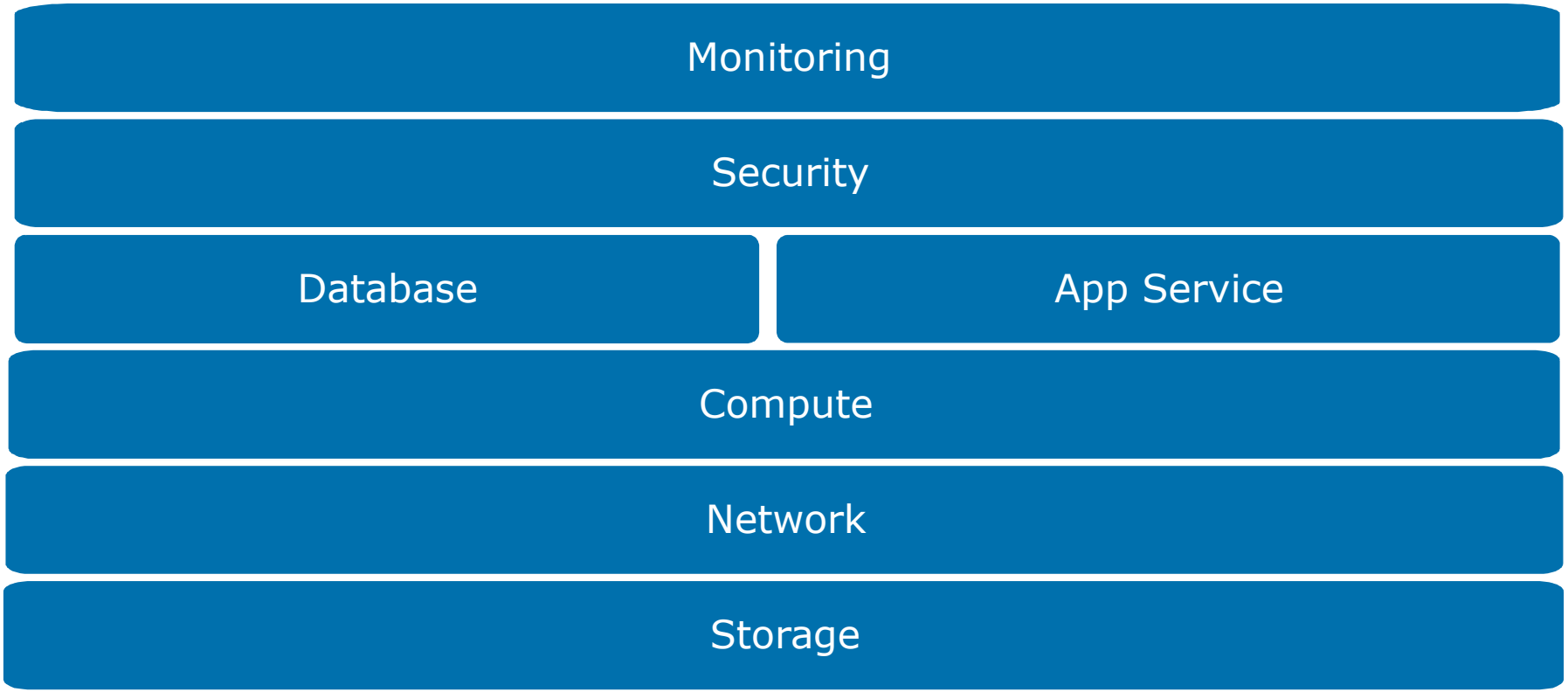
Azure Services

- The world of Azure is large and changes fast. Currently there are 89 main services.



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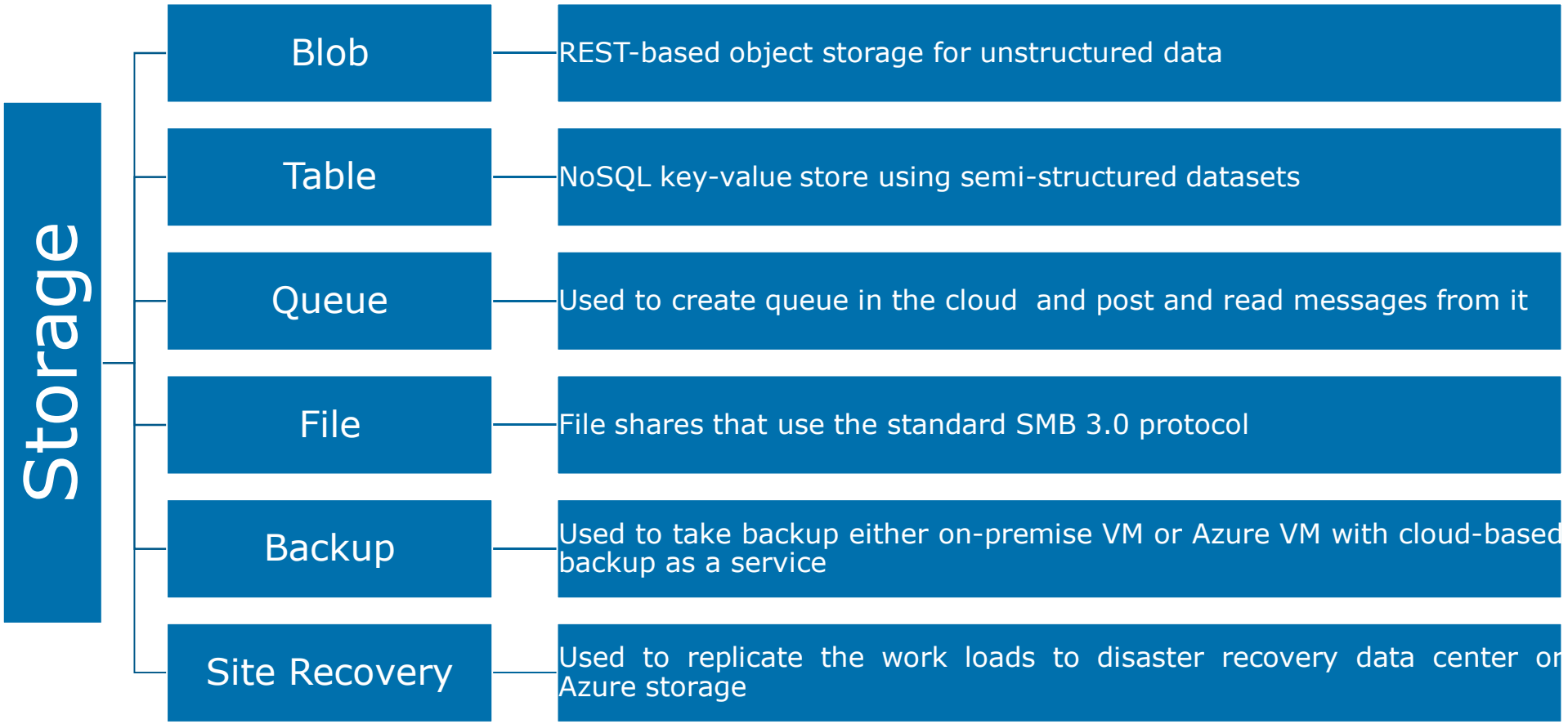
Azure Storage Service



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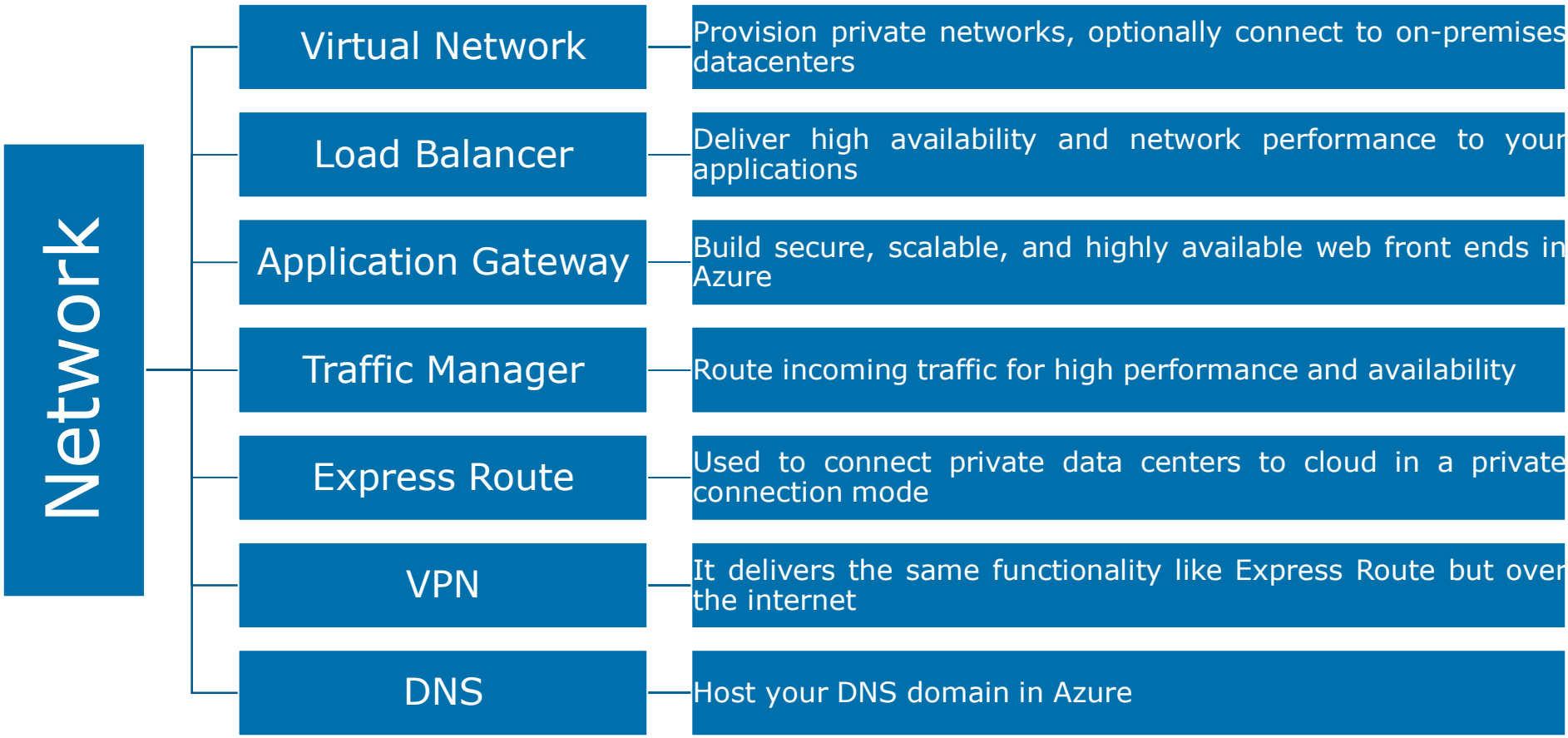
Azure Network Service



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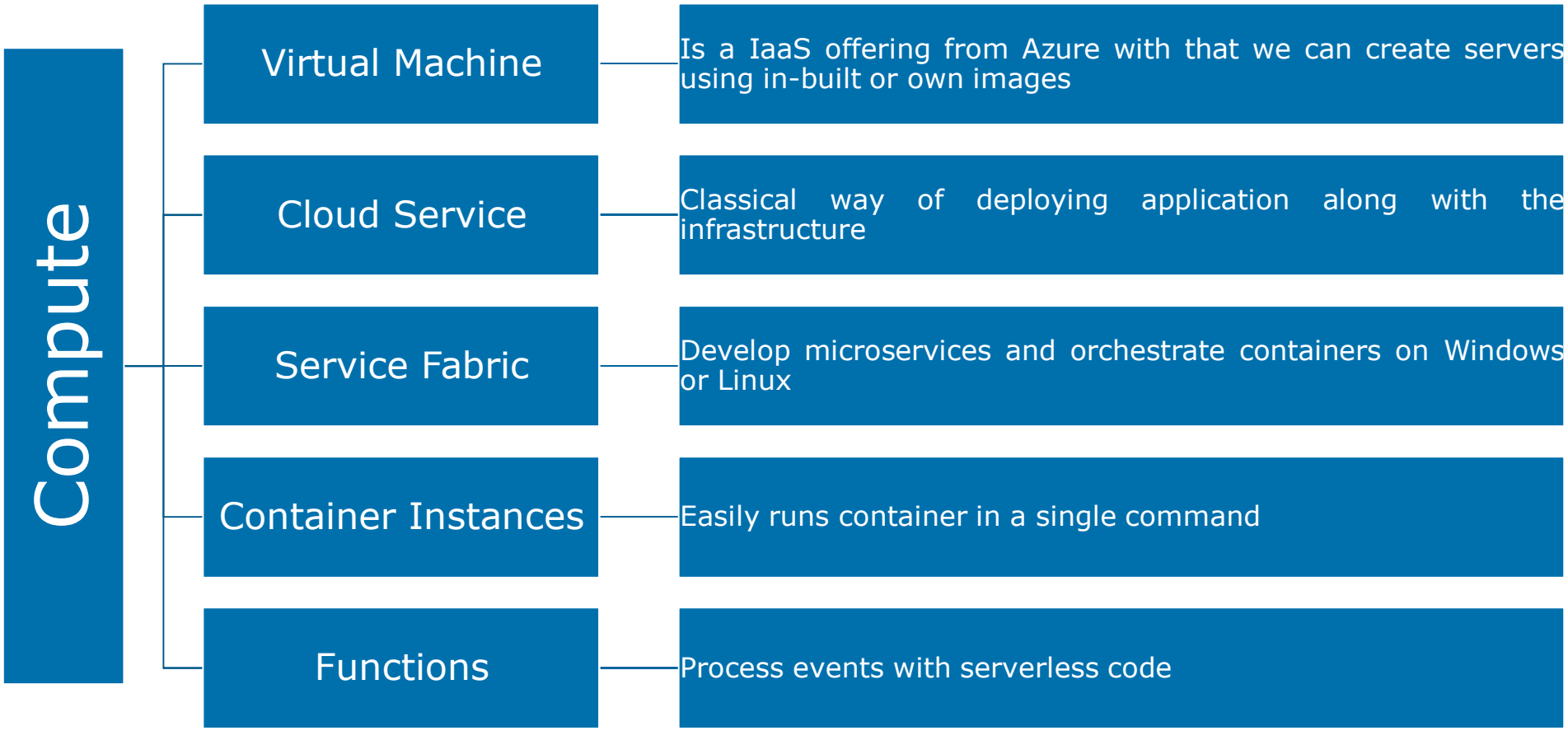
Azure Compute Service



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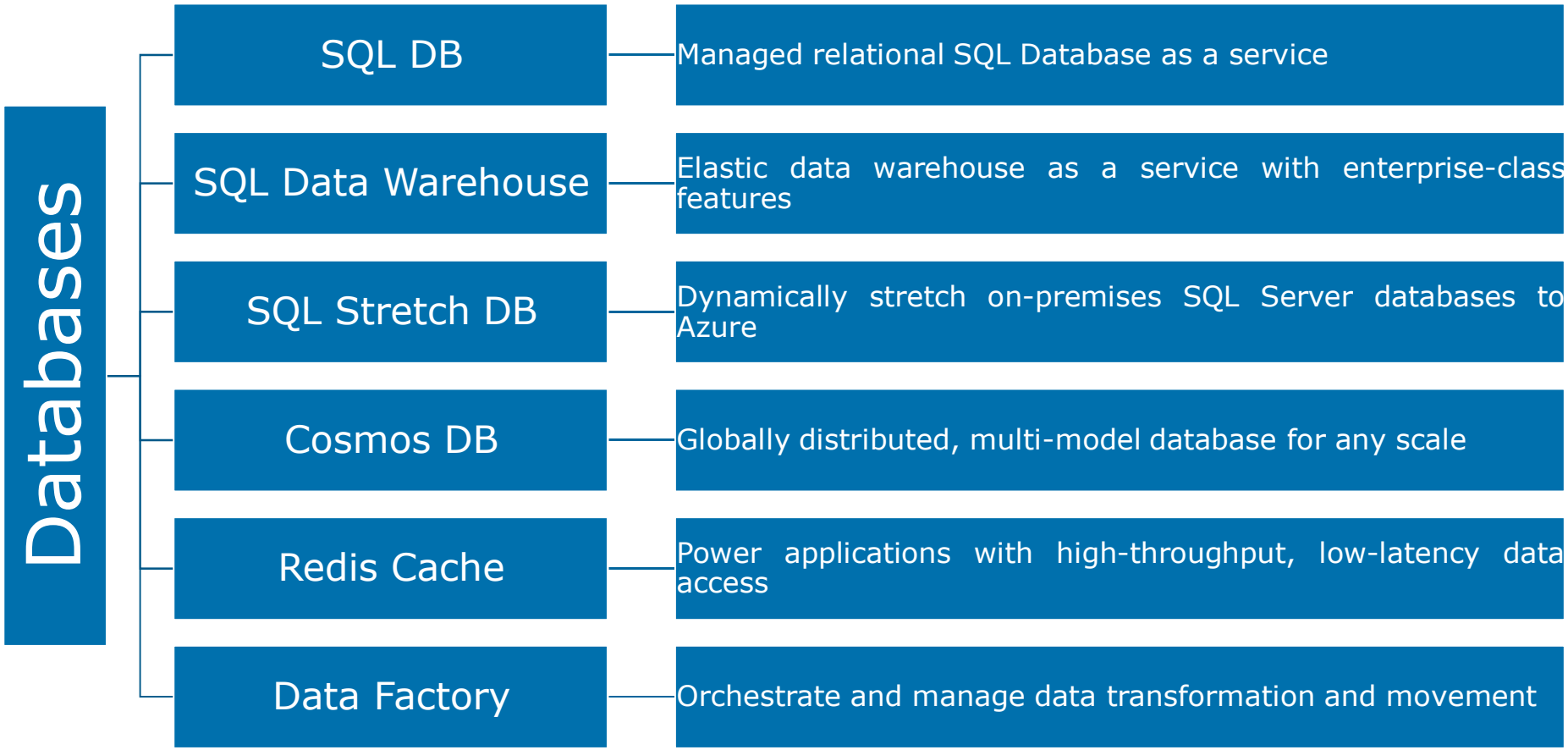
Azure Databases



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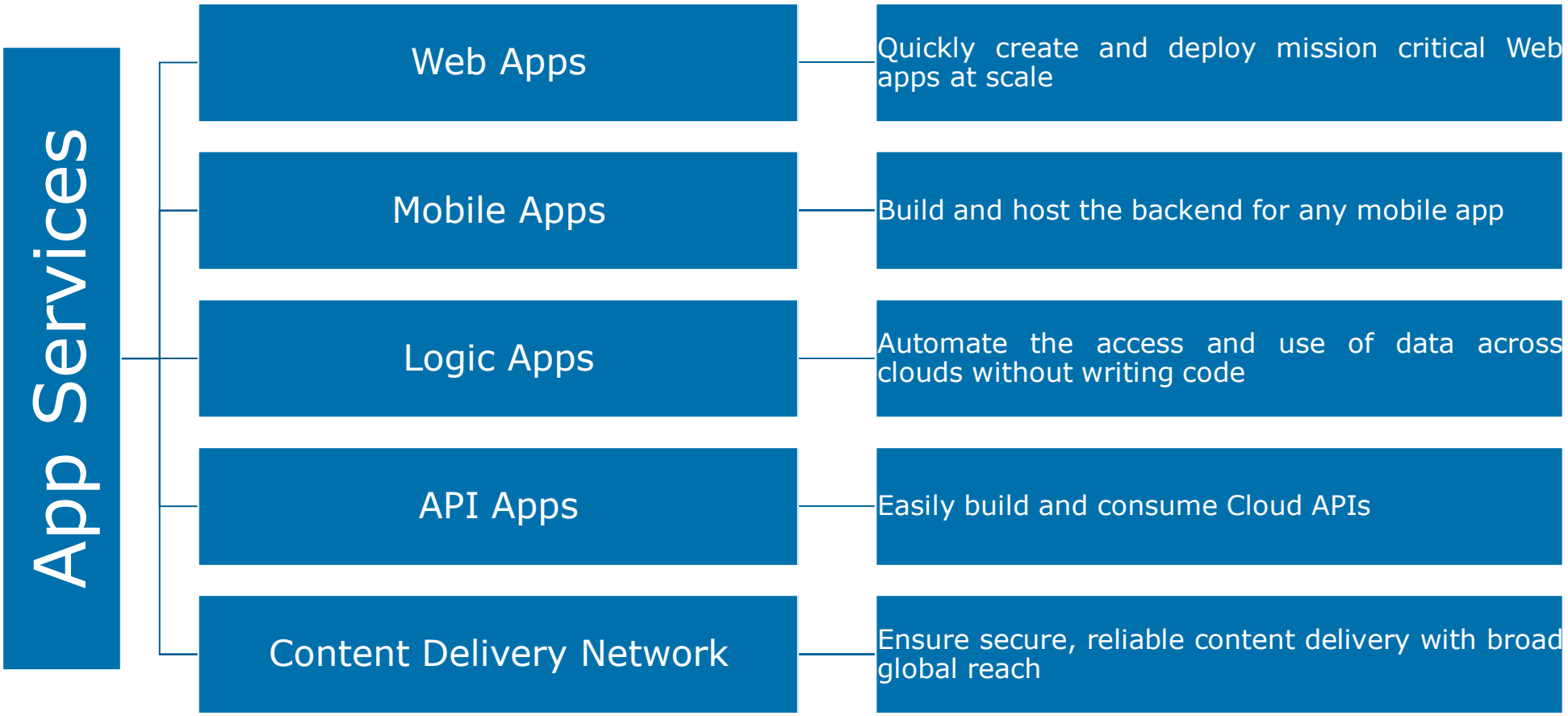
Azure App Services



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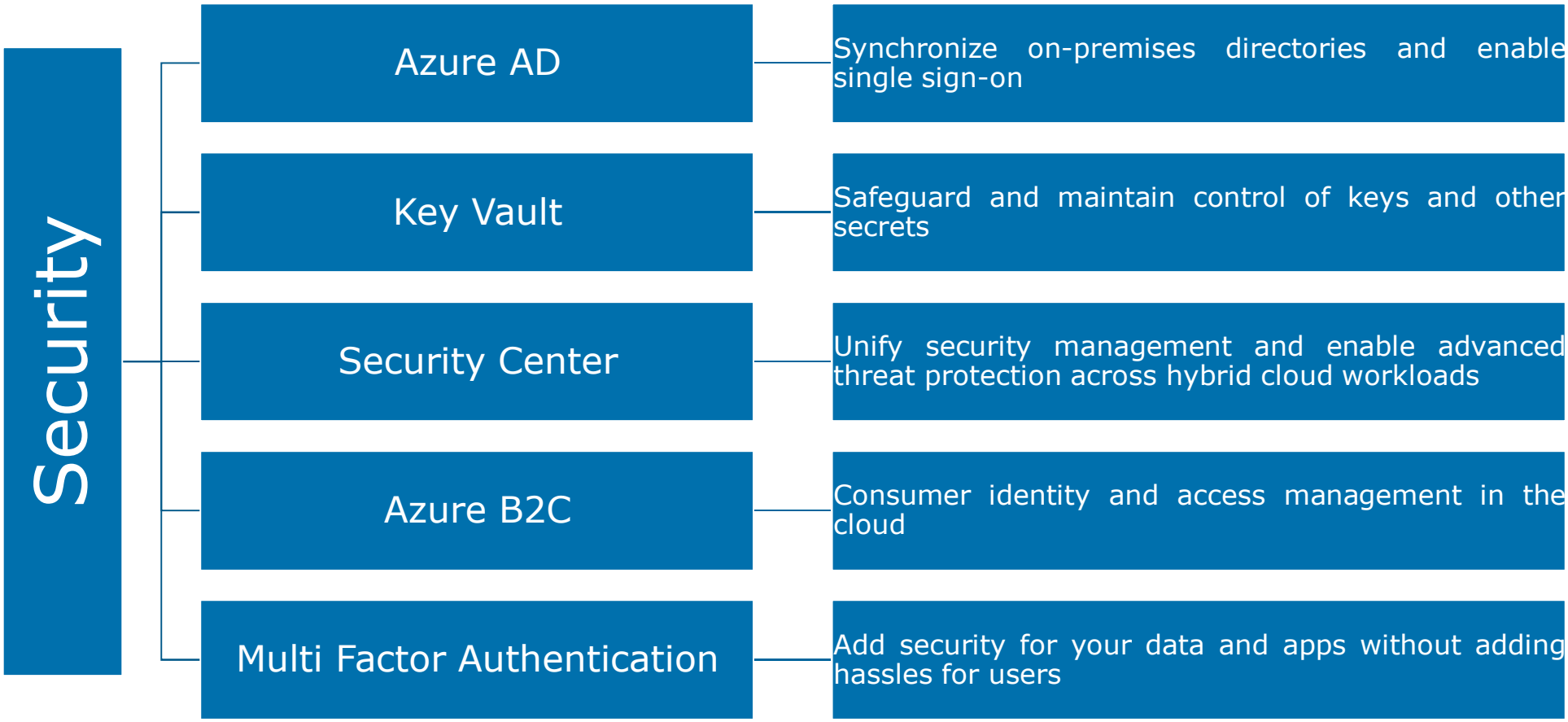
Azure Security



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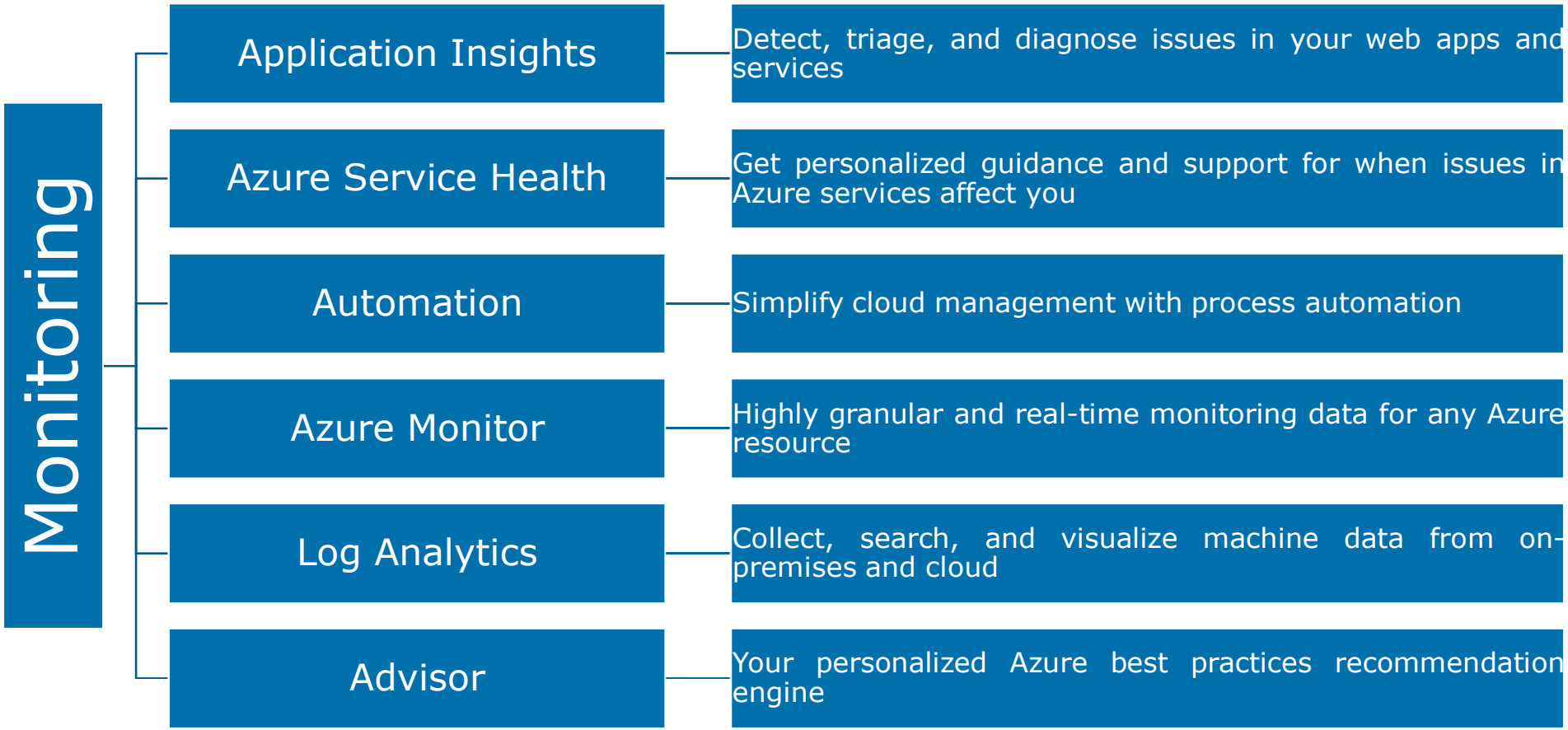
Azure Monitoring



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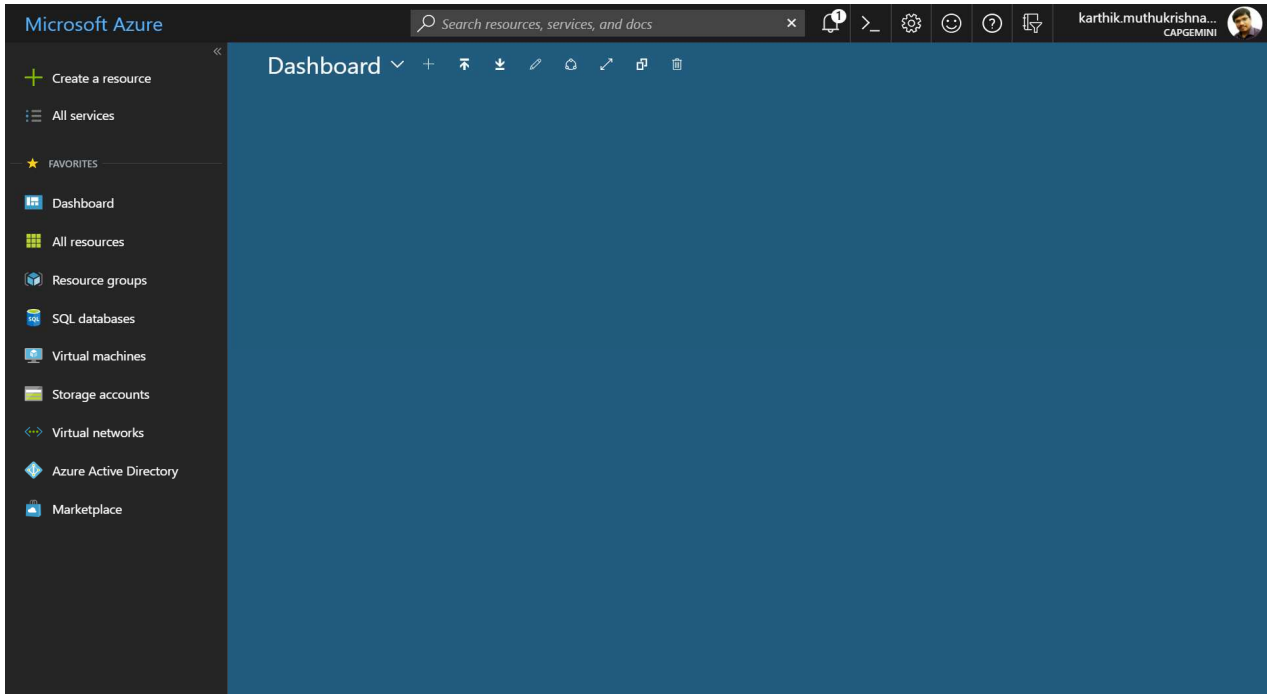
Microsoft Azure Portal

- Azure portal helps us to view and manage all of your applications in one unified hub

portal.azure.com



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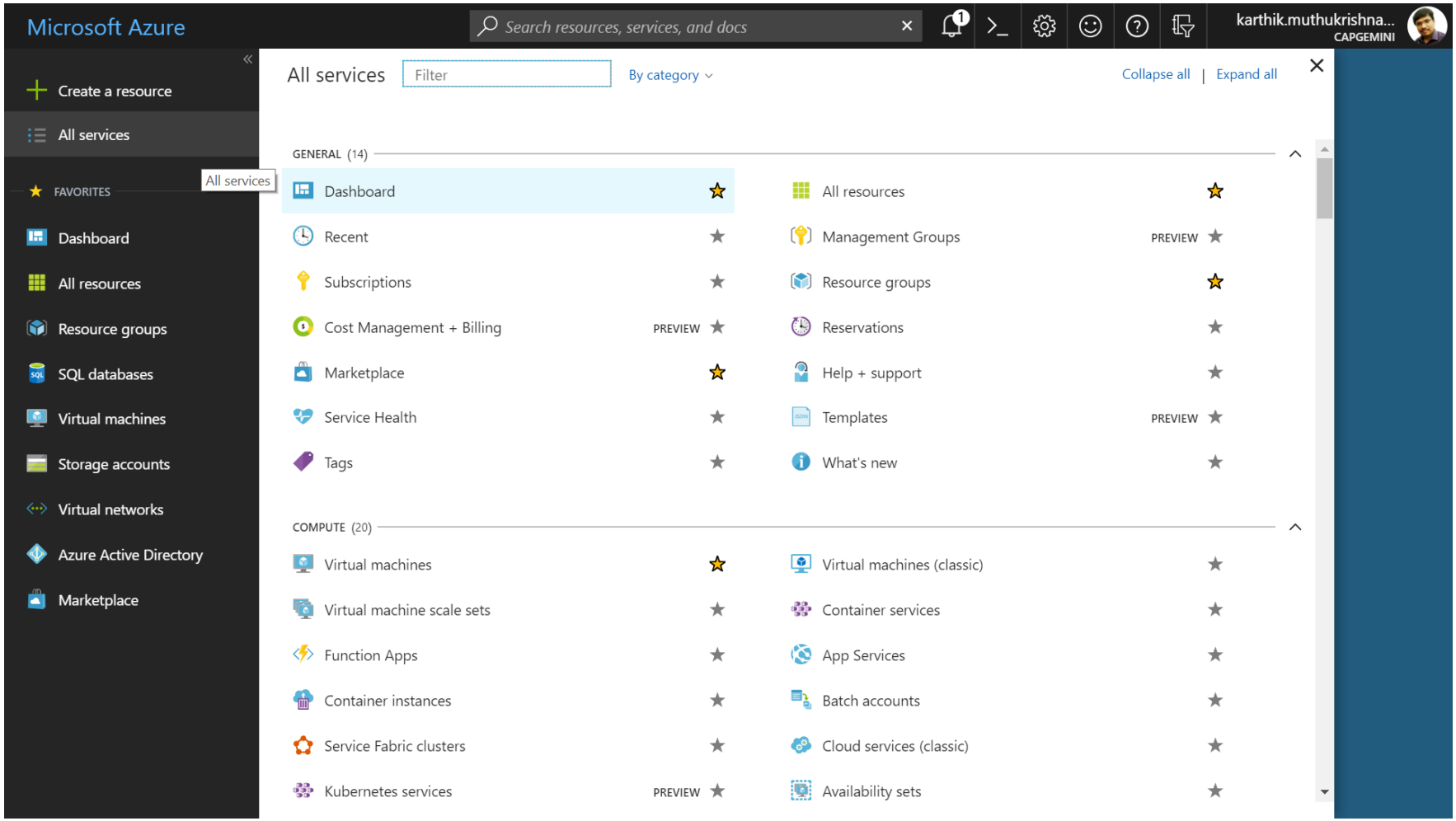
Accessing All the Services



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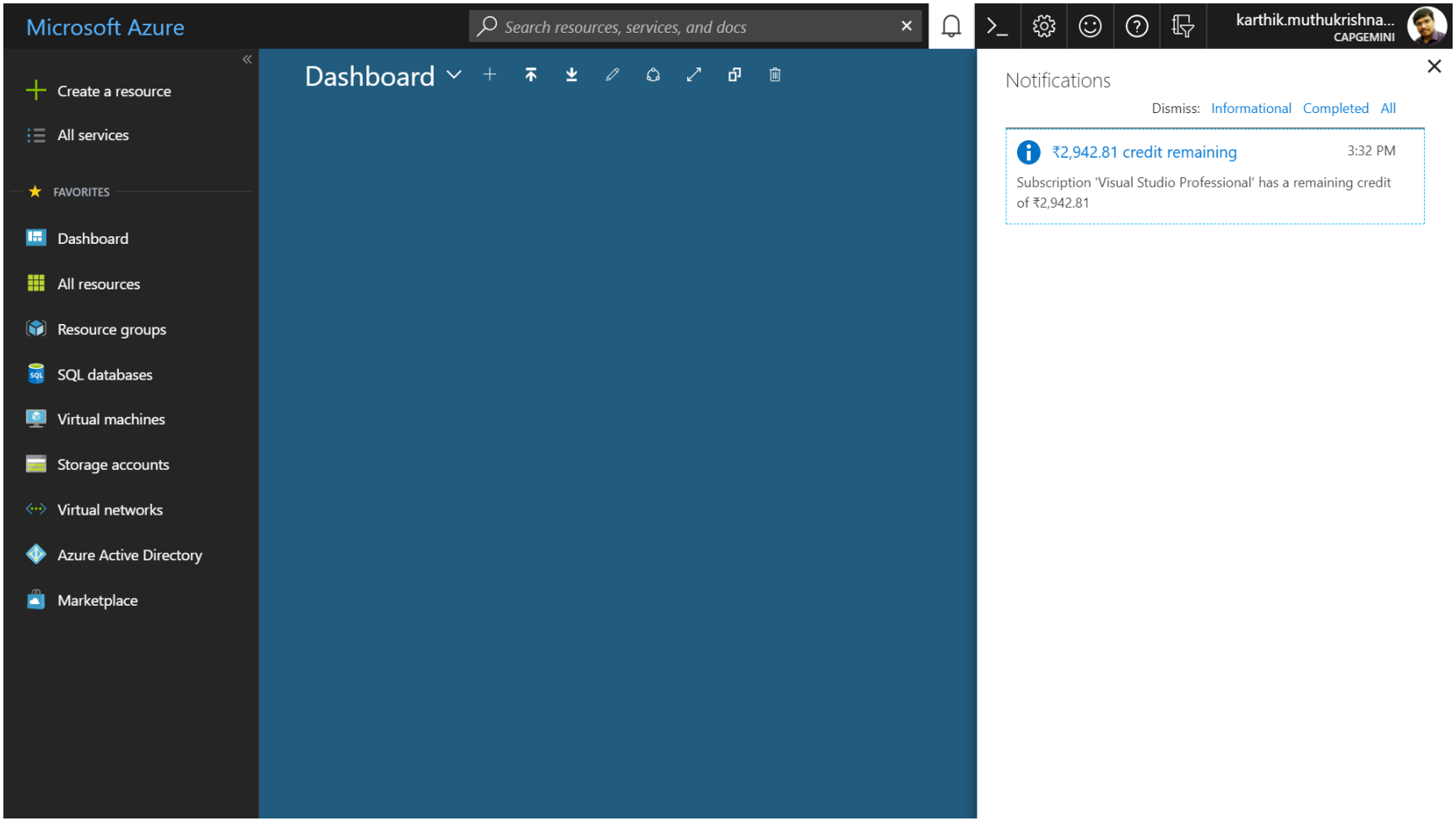
Notification Icon



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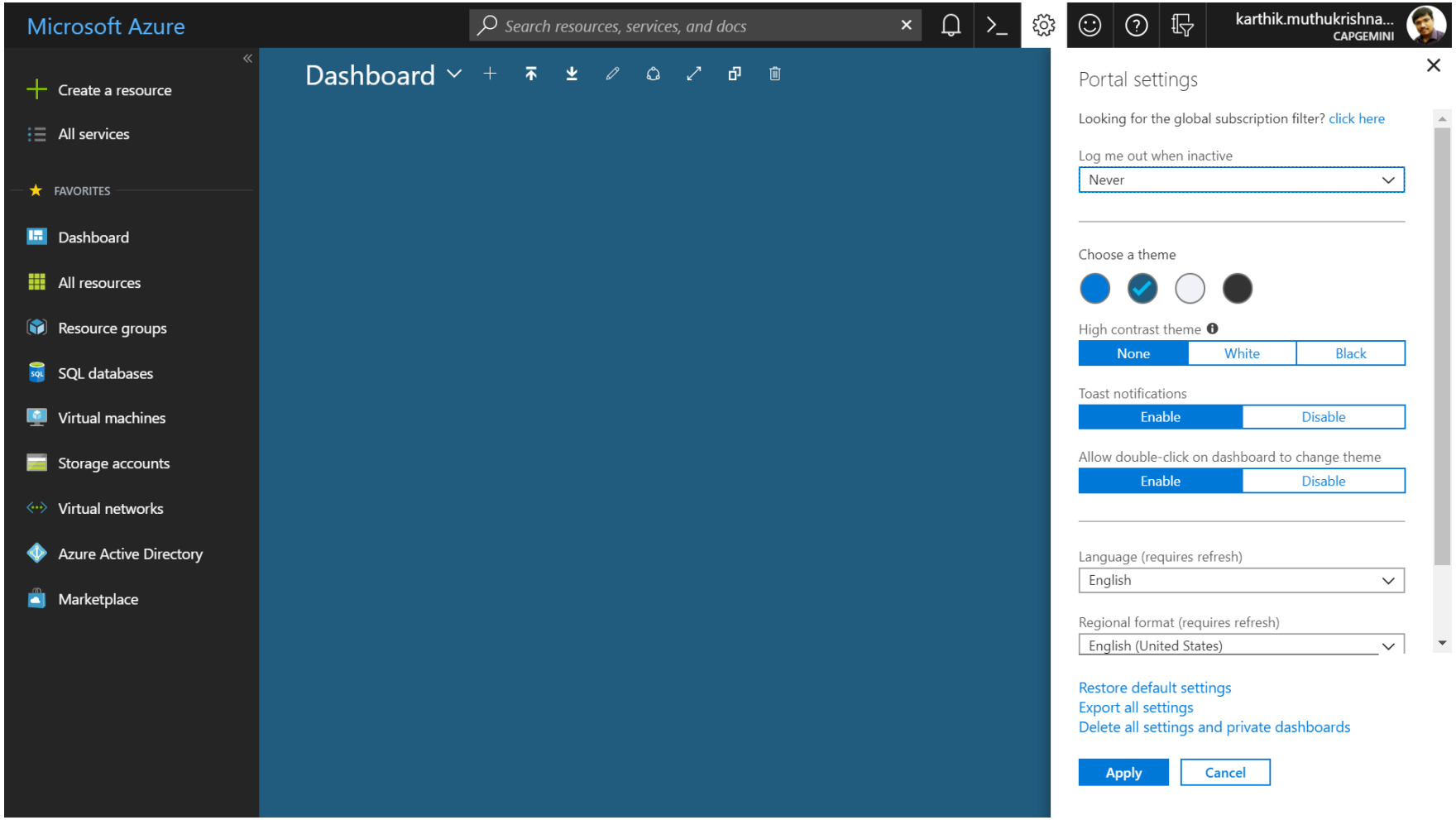
Portal Settings



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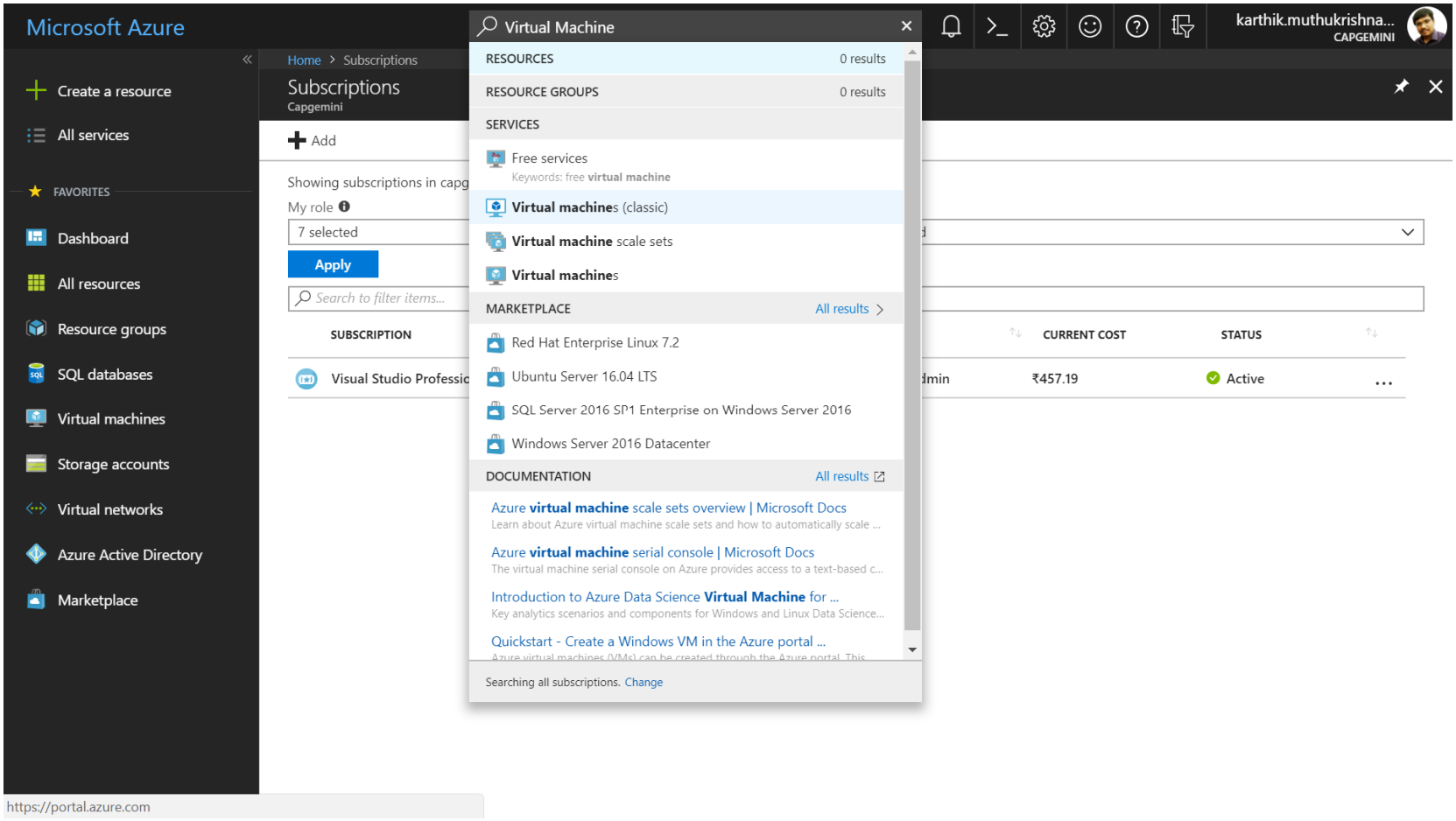
Azure Search(resources, services, and docs)



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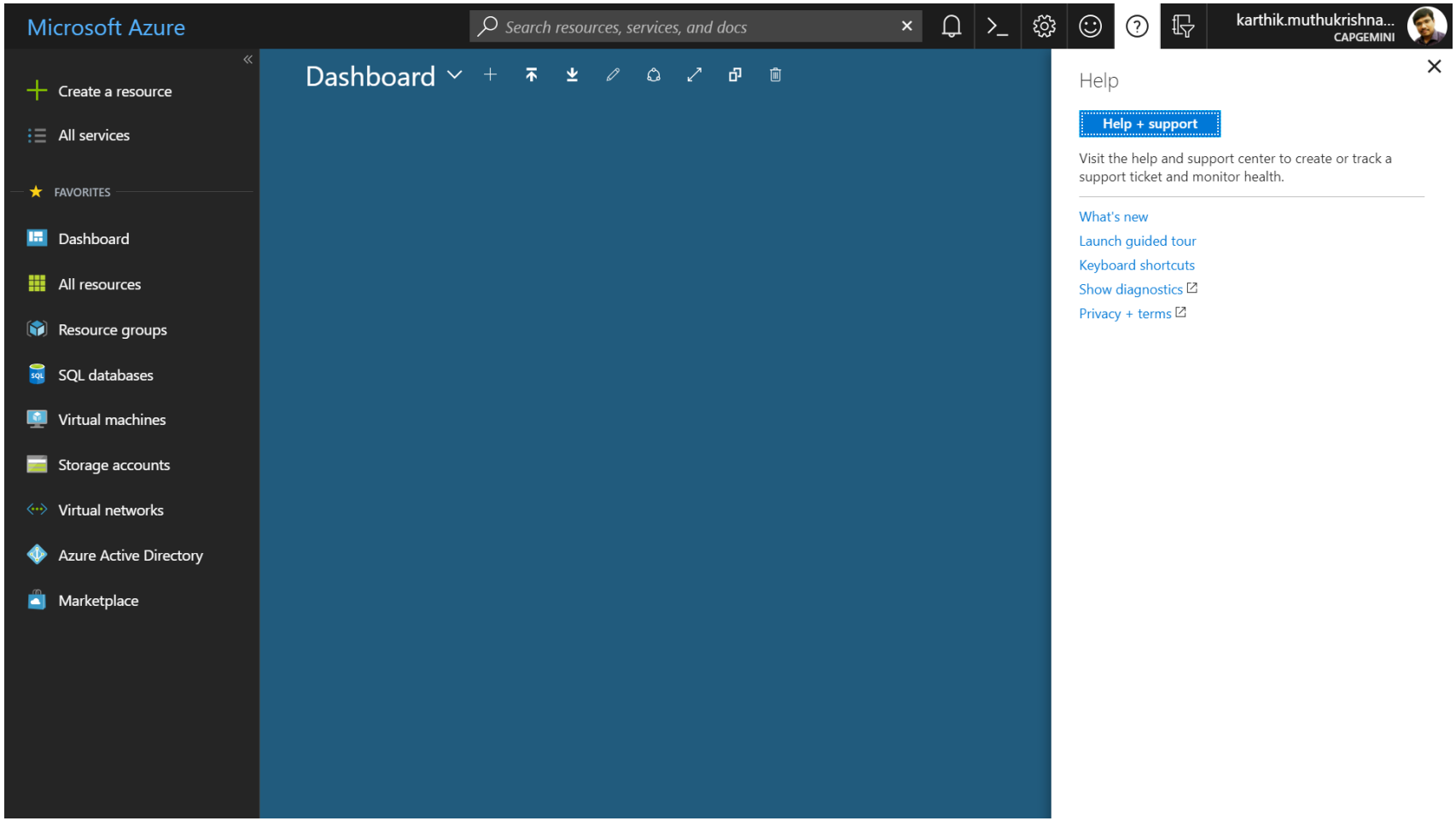
Azure Portal Help



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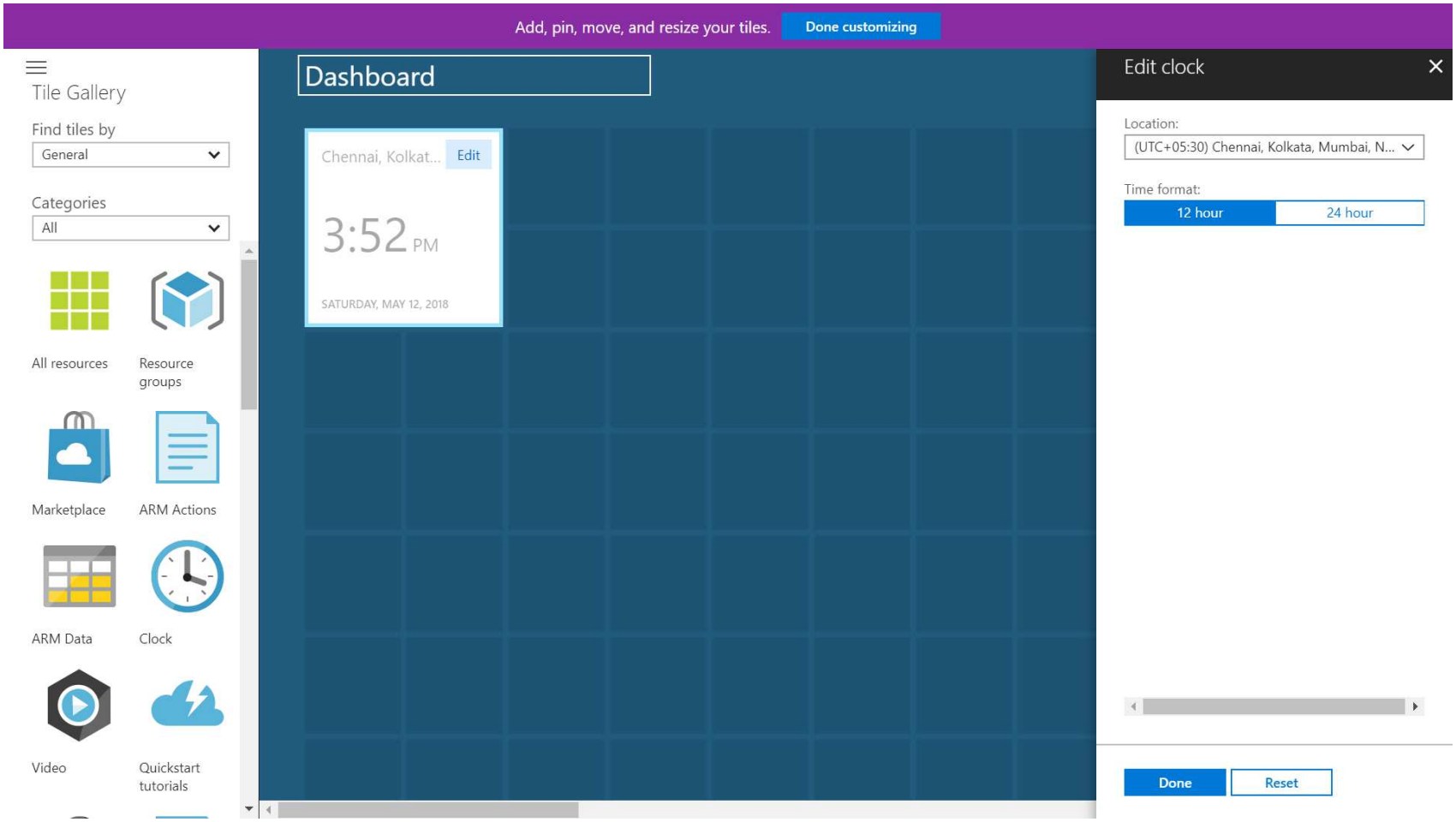
Editing Azure Dashboard



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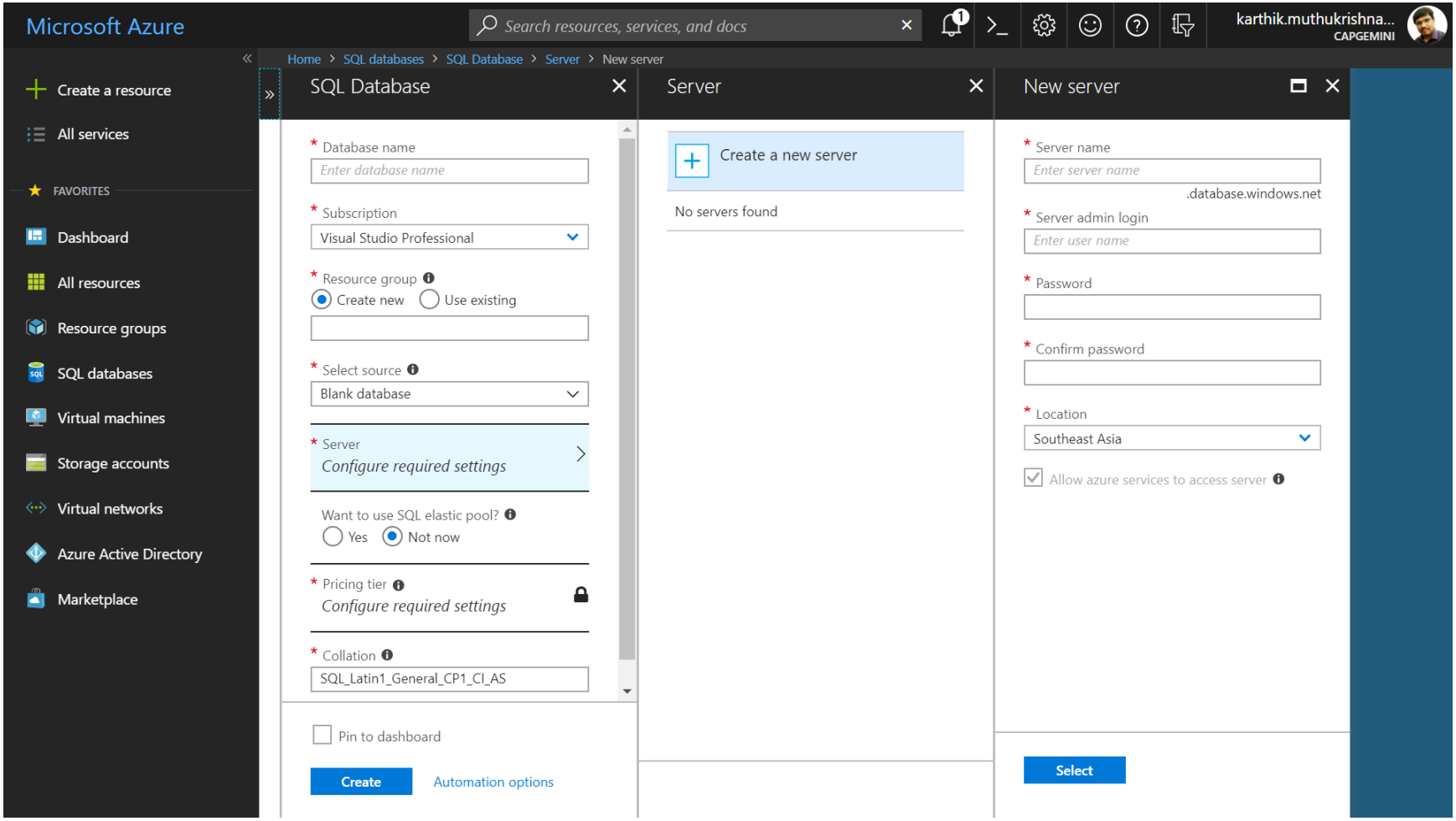
Azure Portal Navigation(Blades)



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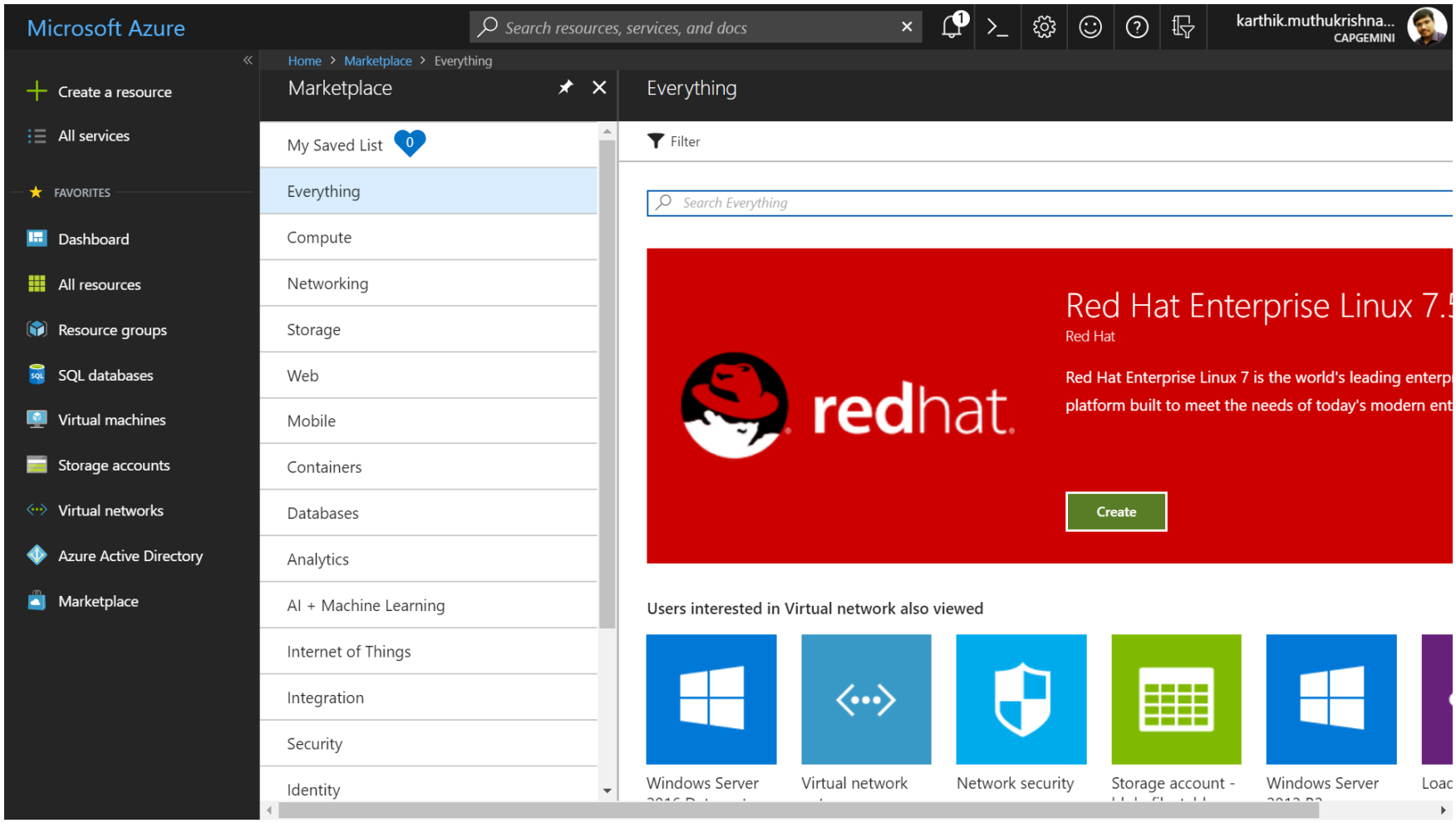
Azure Marketplace



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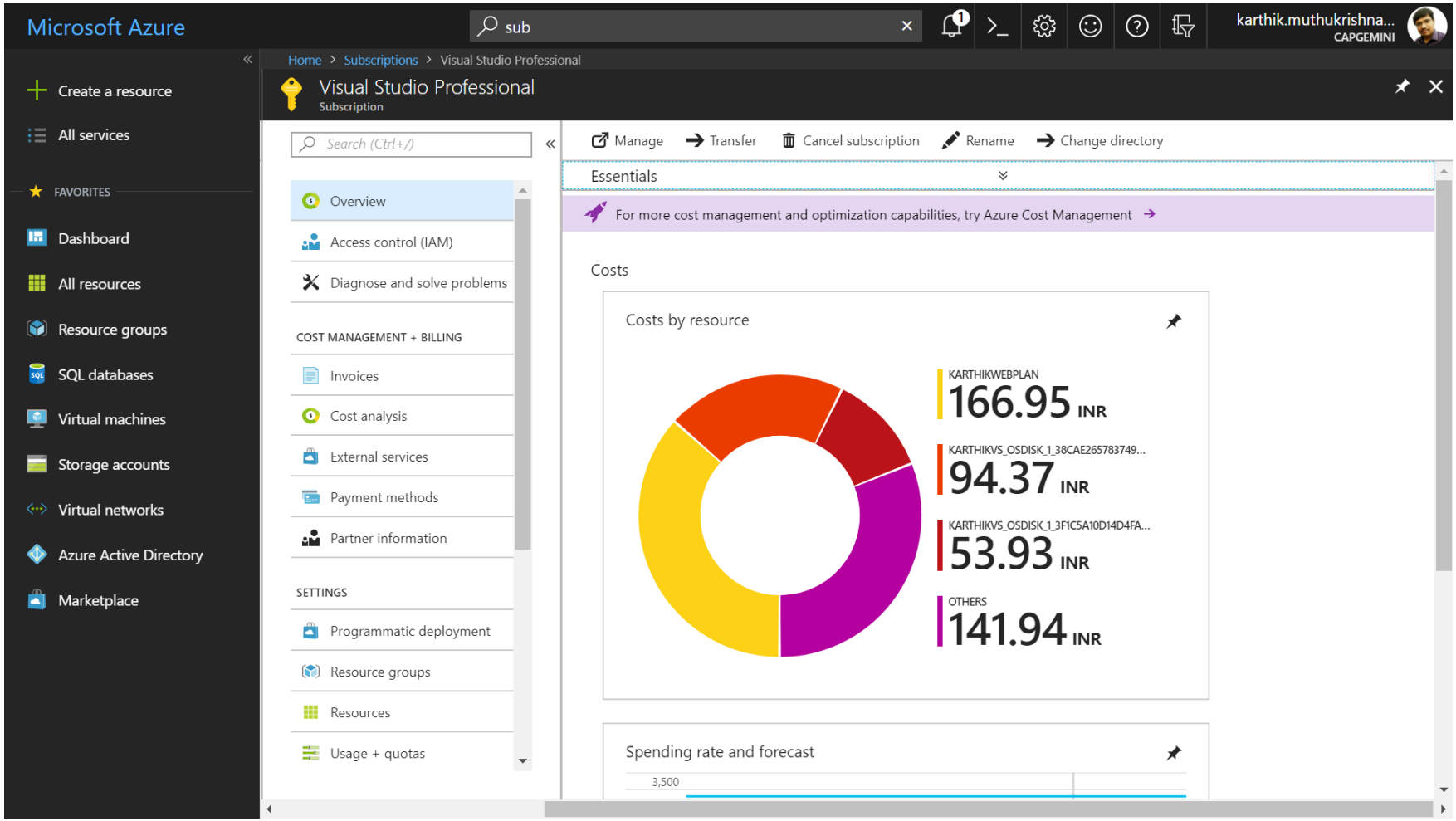
Azure Subscription Details



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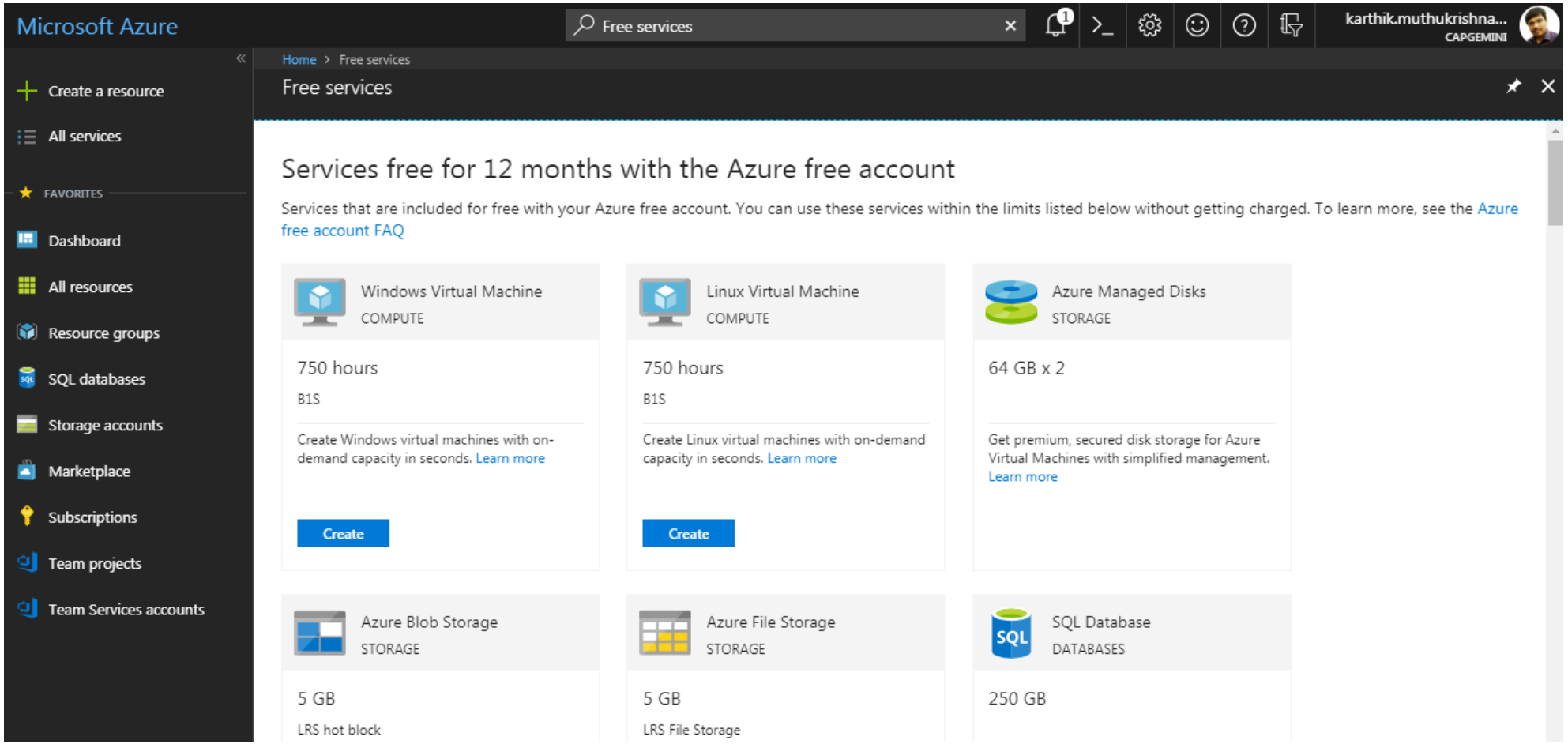
Azure Free Services



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Azure Developer Tools

- Although Azure portal is a great way to work with Azure resources, Microsoft offers a comprehensive set of development tools for any developer using any platform or language to deliver cloud applications.

Tool	Description
Visual Studio	Get all the power and capabilities you need to easily develop, debug, deploy, manage and diagnose cloud-scale applications on Azure, using a full-featured IDE
Visual Studio Code	Edit and debug code quickly with a lightweight code editor that runs on macOS, Linux and Window streamlined for building and deploying Node.js and Java apps to the cloud using serverless computing, containers or managed Web Apps
SDKs	Download and install language-specific SDKs and tools for your platform of choice, including .NET, Java, Node.js, Python and Go
CLIs	Use a Azure CLI / PowerShell command-line interface to create and manage services and automate everyday tasks in Azure
REST APIs	REST APIs allow us to interact with nearly every type of resource in Azure programmatically

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Summary

- Microsoft Azure is an open, flexible, enterprise-grade cloud computing platform
- Azure gives customers the flexibility to deploy applications where they need to by providing more global regions than any other cloud provider
- Using Azure Portal you can view and manage all of your applications in one unified hub and stay on top of the things that matter most by pinning them to your dashboard

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Summary

- Azure Marketplace is the premier destination for all your software needs which is certified and optimized to run on Azure
- The Azure CLI 2.0 is Microsoft's cross-platform command line experience for managing Azure resources
- Azure PowerShell provides a set of cmdlets that use the Azure Resource Manager model for managing your Azure resources.
- REST APIs allow us to interact with nearly every type of resource in Azure programmatically

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