



Building Your Web Server in Azure

Welcome! This presentation guides you through the steps of building a robust and secure web server in the Azure cloud. You'll gain valuable insights into Azure Virtual Machines, the process of deployment, configuration, and best practices.

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Introduction to Azure Virtual Machines

Virtualized Infrastructure

Azure Virtual Machines (VMs) provide virtualized computing resources in the cloud, allowing you to deploy and manage server environments similar to on-premises deployments.

Scalable and Flexible

Azure VMs offer a wide range of VM sizes and configurations, enabling you to tailor your resources to meet the specific demands of your web server application.

Prerequisites for Web Server VM



1

1. Azure Subscription

You'll need an active Azure subscription to create and manage resources within the Azure cloud.

2

2. Azure Account

Create an Azure account if you don't have one already. This will give you access to the Azure portal and various resources.

3

3. Basic Azure Knowledge

Familiarize yourself with basic Azure concepts such as resource groups, virtual groups, virtual networks, and storage accounts.

Choosing the Right VM Size and Configuration

Web Server Load

Consider the expected traffic and resource demands of your web application. Select a VM size with sufficient CPU, memory, and storage to handle the anticipated workload.

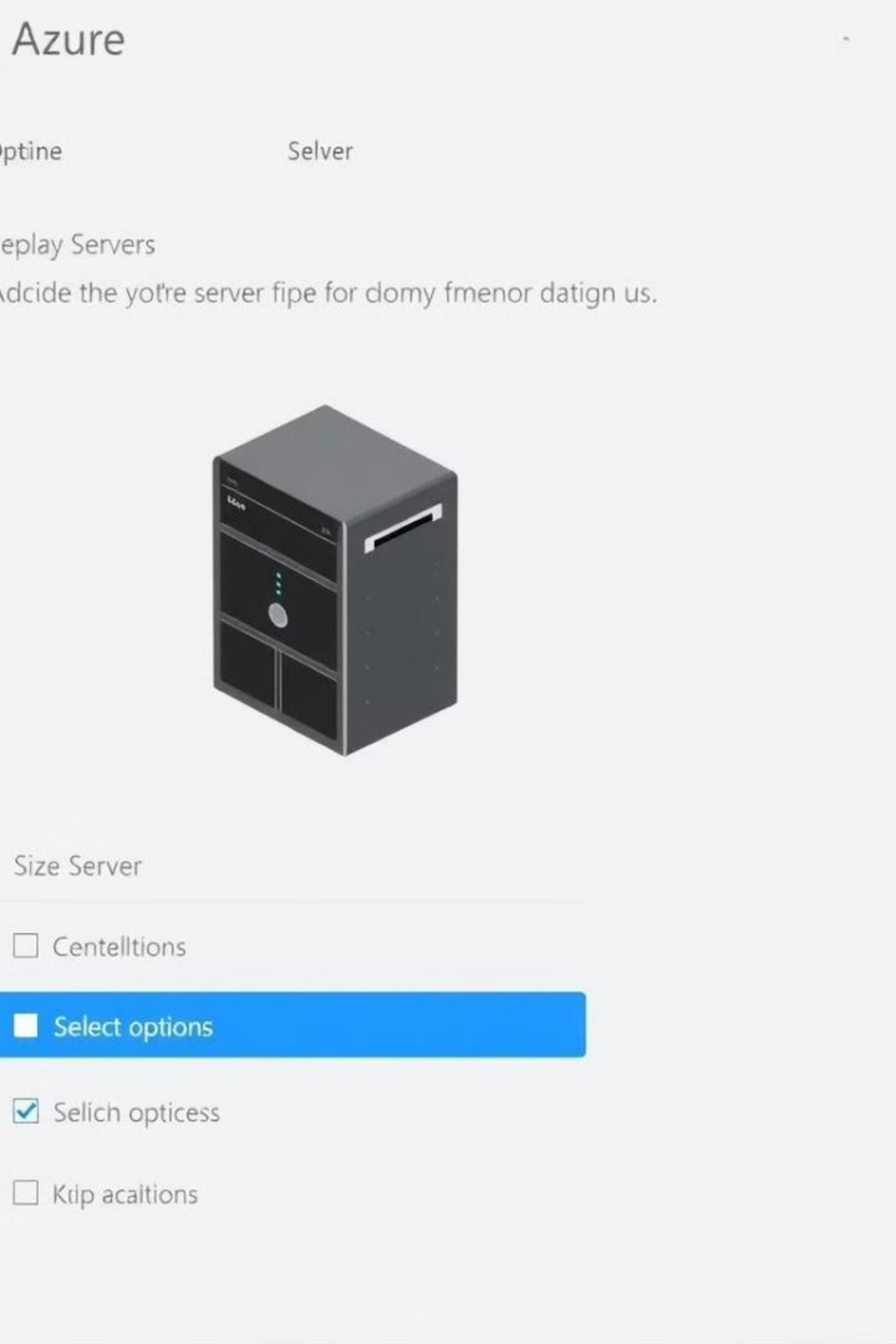
Cost Optimization

Balance performance and cost. Choose a VM size that meets your needs without overspending. Azure offers a range of options to fit different budgets.

Scalability and Flexibility

Select a VM size that can be easily scaled up or down as your web server needs change. Azure provides seamless scaling options to meet your evolving demands.





Deploying a Windows Server VM



Azure Portal

Access the Azure portal and create a new virtual machine within a resource group. Choose the appropriate operating system (Windows Server) and VM size.



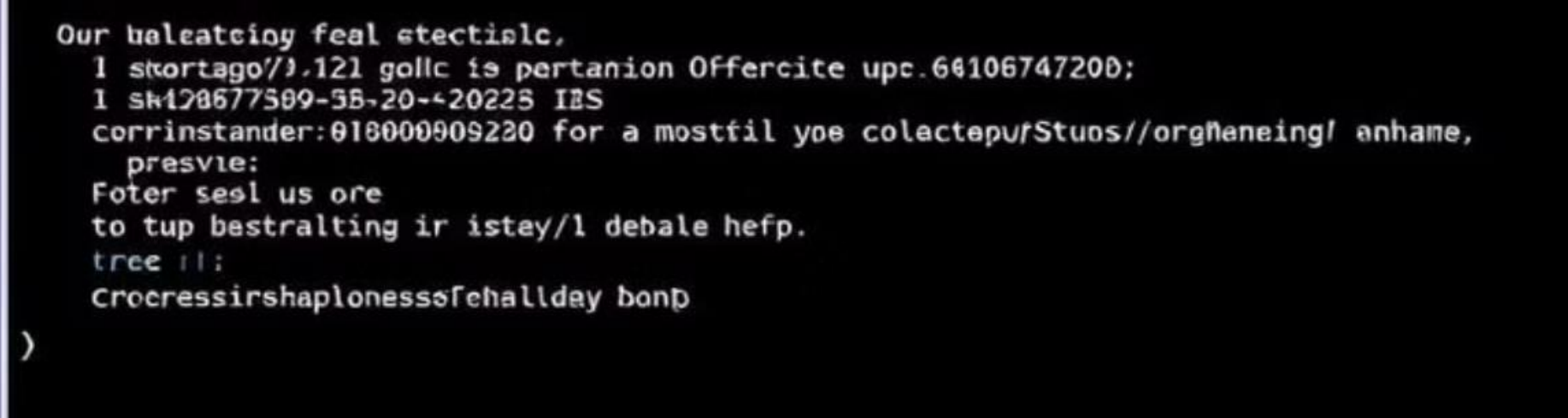
Network Configuration

Select a virtual network and subnet for your VM to ensure connectivity and security.

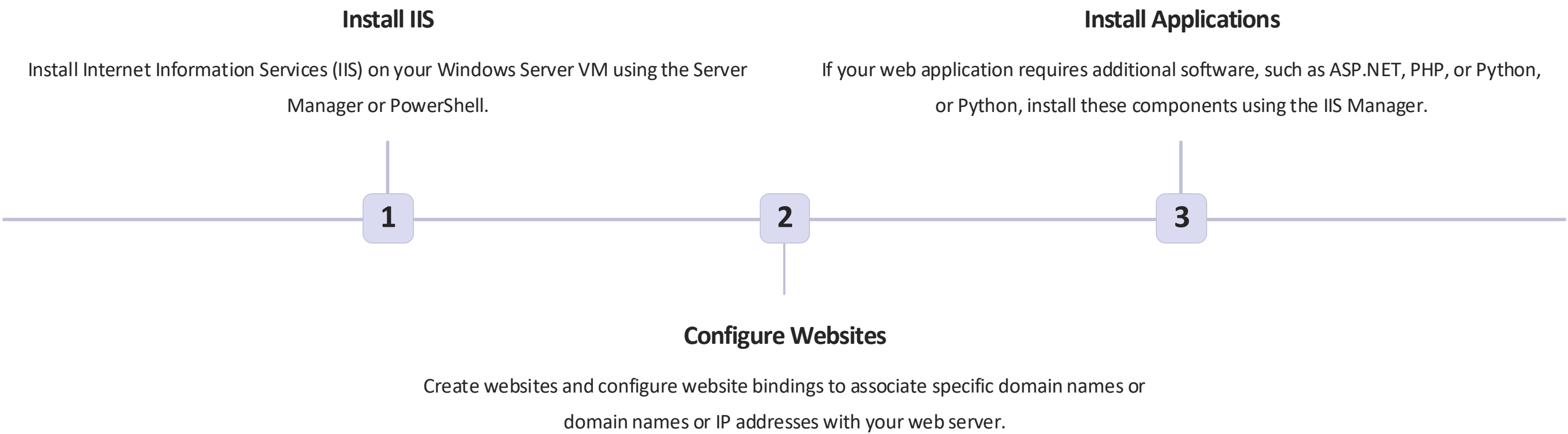


Storage Account

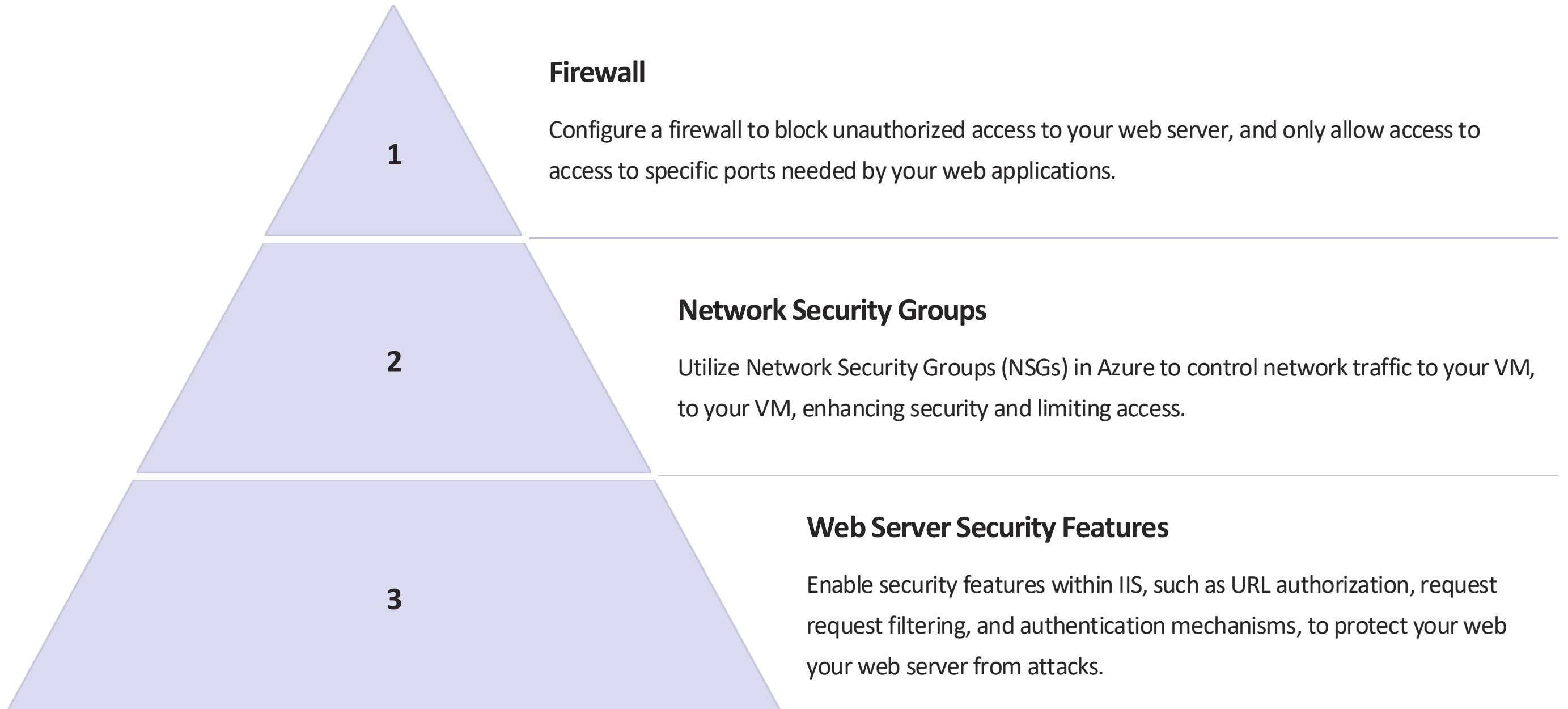
Configure storage accounts for your VM, including data disks for web server files, and operating system disks for the server itself.



Configuring Web Server Software



Securing the Web Server



Monitoring and Managing the Web Server

1

Azure Monitoring

Use Azure Monitor to track key performance metrics, identify potential issues, and receive alerts about web server performance.

2

Log Analytics

Implement Log Analytics to collect and analyze logs from your web server, providing valuable insights into server activity and troubleshooting.

3

Azure Automation

Utilize Azure Automation to automate repetitive tasks like software updates, security checks, and backup procedures.

Connecting and Testing the Web Server

1

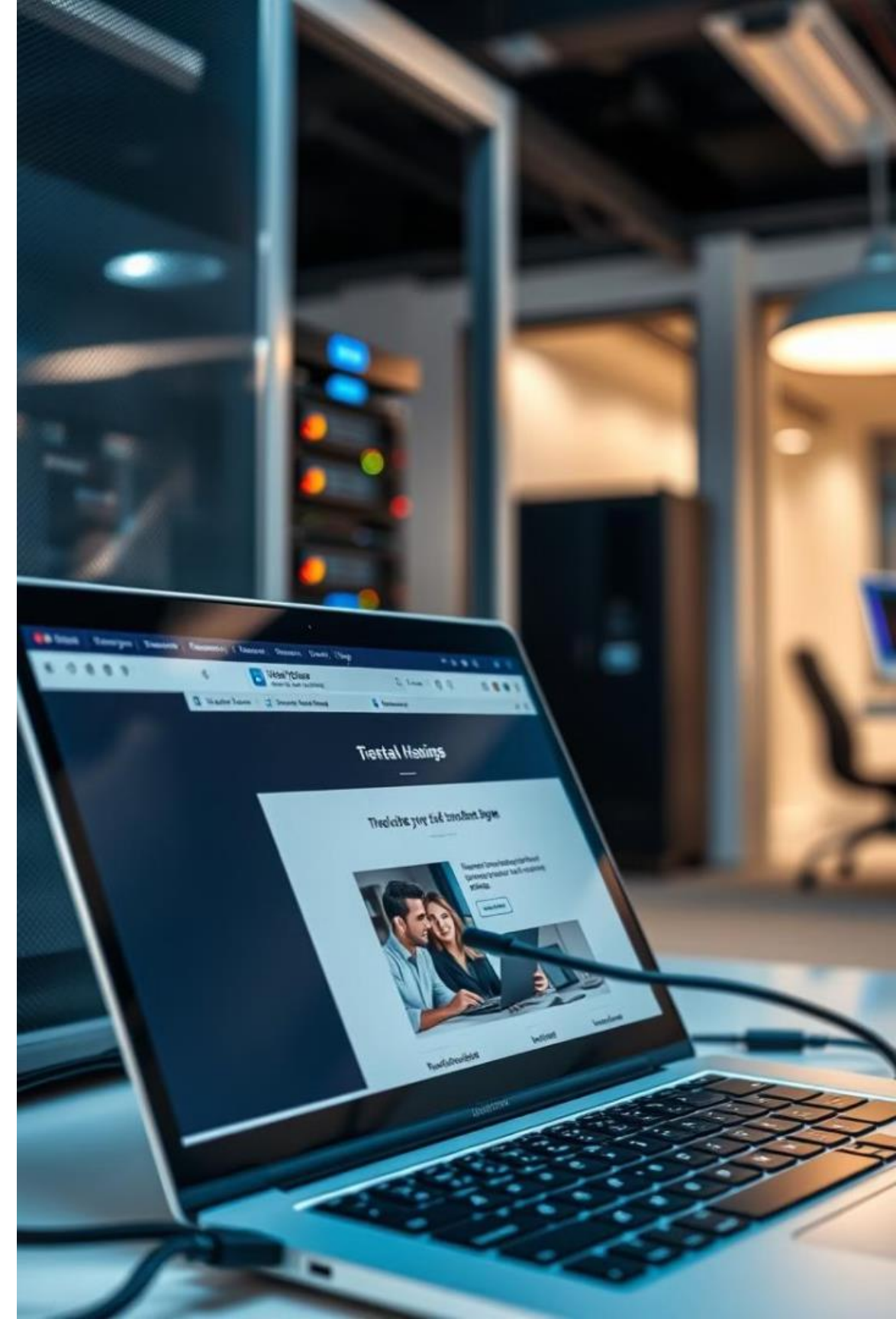
Remote Desktop

Connect to your VM using Remote Desktop to manage the web server and verify its configuration.

2

Browser Test

Open a web browser and navigate to the IP address or domain name assigned to your website to ensure it is accessible and functioning properly.



Scaling and High Availability Options



Azure provides scaling and high availability options to ensure your web server remains available and performs well, even during peak traffic periods.



thank you