Lab 08 - Manage Virtual Machines

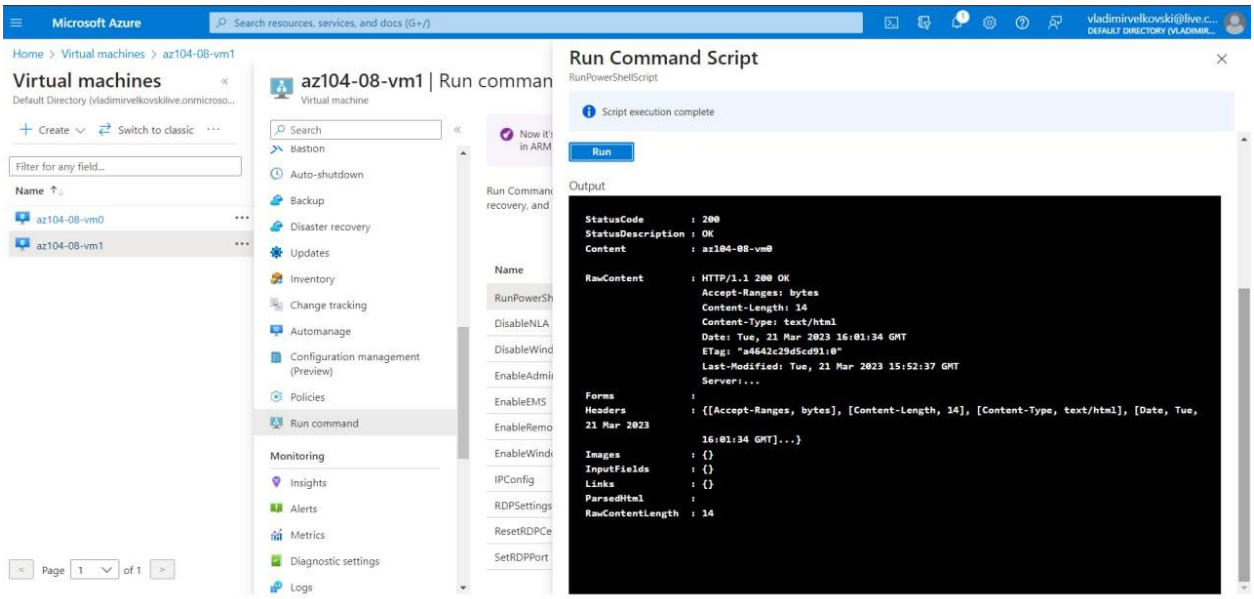
Microsoft Azure is one of the leading cloud computing platforms that provides a vast range of services and solutions for various applications, including storage, computing, networking, and analytics. As an IT professional, it's essential to know how to manage virtual machines in Azure to leverage the benefits of cloud computing fully. In this lab, we will explore the basics of creating and managing virtual machines in Azure. The lab will cover how to create virtual machines, configure virtual networks, attach data disks, and troubleshoot common issues in a virtual machine environment. Throughout the lab, we will use the Azure portal to complete the tasks and ensure that we have a functional virtual machine environment. The following report includes screenshots of some of the key steps in the lab to illustrate the process of managing virtual machines in Azure.

Task 1: Deploy zone-resilient Azure virtual machines by using the Azure portal and an Azure Resource Manager template.

In this task the virtual machine is just created and deployed so there is no need for a screenshot because in the next task we configure the already created virtual machine and the screenshot will be shown there.

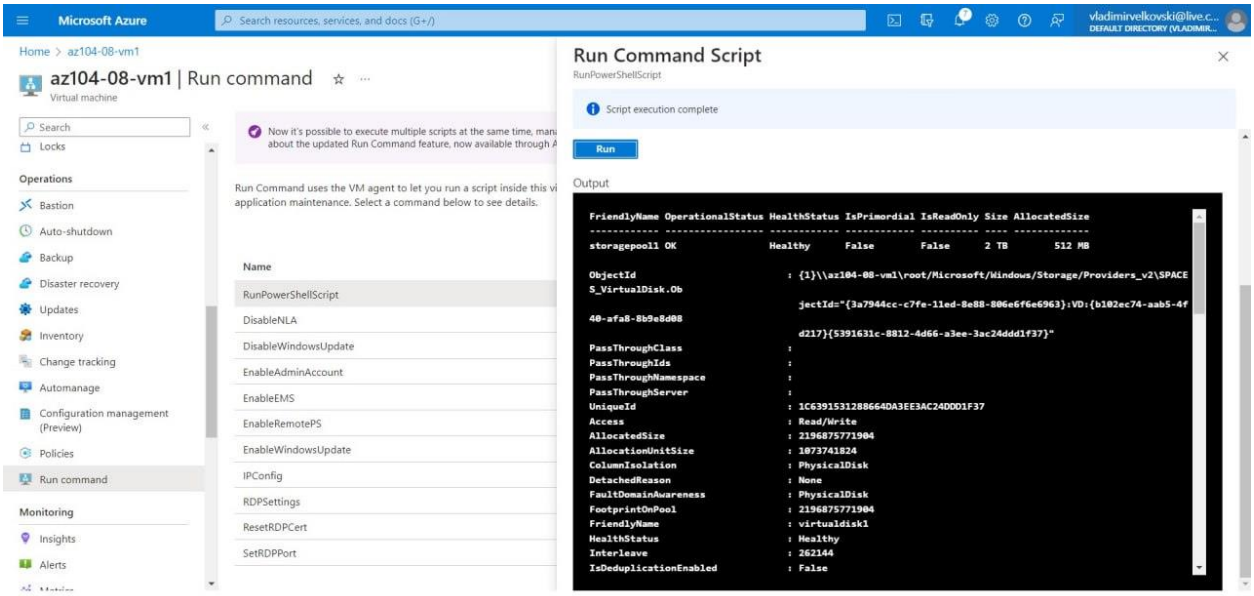
Task 2: Configure Azure virtual machines by using virtual machine extensions.

This task focuses on configuring virtual machines in Azure by using the Custom Script virtual machine extension, which enable the installation of additional scripts on the virtual machine to enhance its functionality.



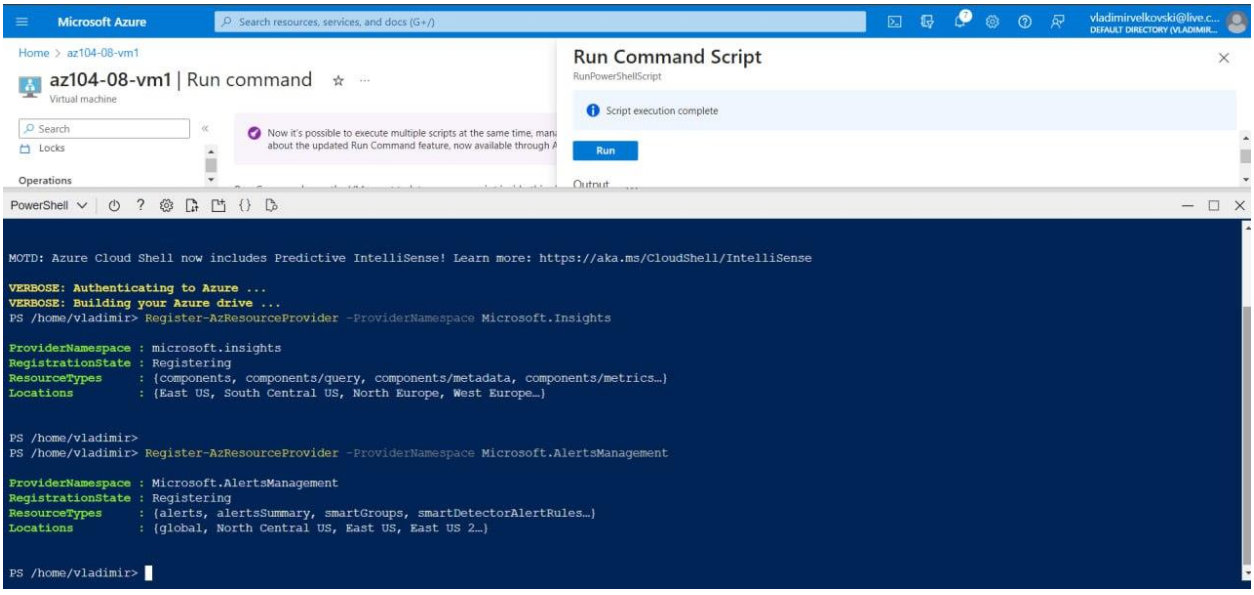
Task 3: Scale compute and storage for Azure virtual machines.

In Task 3, we will learn how to scale compute and storage resources for virtual machines in Azure, allowing us to optimize performance and cost-efficiency based on our workload requirements.



Task 4: Register the Microsoft.Insights and Microsoft.AlertsManagement resource providers.

Task 4 focuses on registering the Microsoft.Insights and Microsoft.AlertsManagement resource providers, which enable the collection of monitoring and diagnostic data for virtual machines in Azure and provide alerts based on predefined rules.

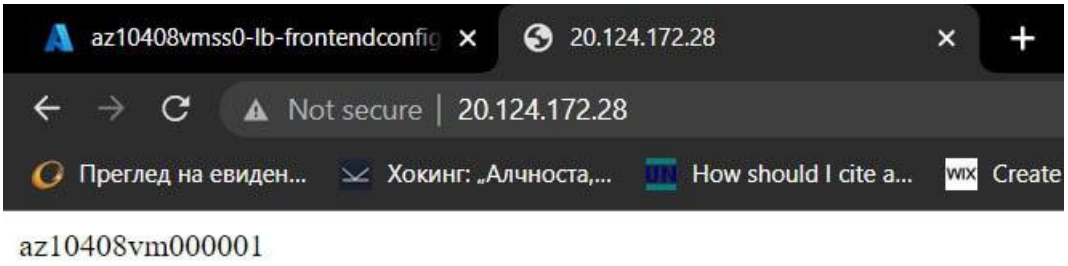


Task 5: Deploy zone-resilient Azure virtual machine scale sets by using the Azure portal.

This task covers the deployment of zone-resilient virtual machine scale sets in Azure, which allows us to automatically scale our virtual machine resources based on demand while ensuring high availability. This task is also connected with the next, so the screenshot will be shown in the next task.

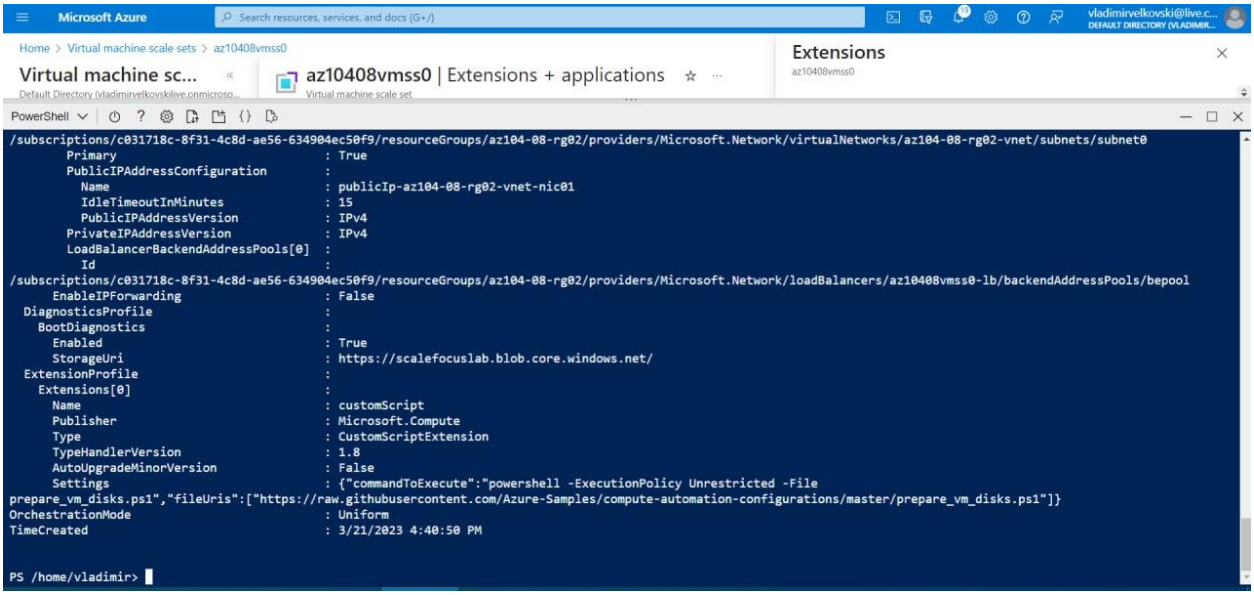
Task 6: Configure Azure virtual machine scale sets by using virtual machine extensions.

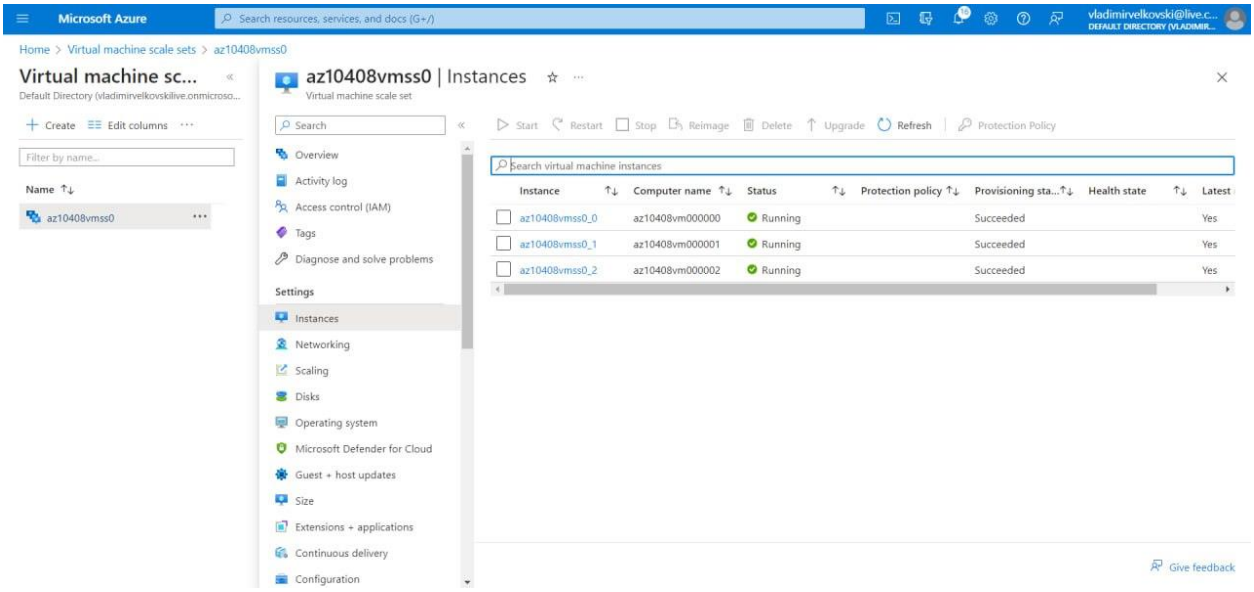
In Task 6, we will learn how to configure virtual machine scale sets in Azure Azure by using the Custom Script virtual machine extension. On the screenshot is shown that the browser page displays the name of one of the instances of the Azure virtual machine scale set az10408vmss0.



Task 7: Scale compute and storage for Azure virtual machine scale sets (optional).

Task 7 covers scaling compute and storage resources for virtual machine scale sets in Azure, allowing us to optimize performance and cost-efficiency based on our workload requirements.

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Edit columns
Filter by name...
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Tags
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Instances
Networking
Scaling
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Extensions + applications
Continuous delivery
Configuration
Start
Restart
Stop
Reimage
Delete
Upgrade
Refresh
Protection Policy
Search virtual machine instances
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Computer name
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Provisioning sta...
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az10408vmss0_0
az10408vm000000
Running
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Running
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