**Question 1: You need to ensure your team is alerted if the CPU usage on any of your Azure VMs exceeds 80% for more than 5 minutes. Additionally, you want to collect diagnostics logs from your Azure Storage account and send them to a Log Analytics workspace. From there, you will configure alerts if specific metrics, such as storage capacity usage, exceed defined thresholds. Describe the steps to:**

**1. Configure an alert for high CPU usage on an Azure VM.**

**2. Send diagnostics logs from an Azure Storage account to a Log Analytics workspace.**

**3. Configure alerts on specific metrics from the Log Analytics workspace.**

ANS: **1. Configure an Alert for High CPU Usage on an Azure VM**

1. Go to the Azure Portal.
2. Navigate to "Monitor" in the left-hand menu.
3. Click on "Alerts" and then "Alert rules".
4. Create a New Alert Rule:
5. Click on "Create" and select "Alert rule".
6. In the "Create alert rule" window, click on "Select a resource" and choose the virtual machine you want to monitor.
7. Define the Condition:
8. Click on "Add condition".
9. In the "Configure signal logic" window, search for and select "Percentage CPU".
10. Set the "Threshold value" to "80" and the "Time aggregation" to "Average".
11. Set "Operator" to "Greater than" and "Aggregation granularity" to "5 minutes".
12. Click "Done".
13. Define the Action:
14. Click on "Add action group".
15. Either create a new action group or select an existing one.
16. In the action group, specify the actions such as sending an email, SMS, or invoking a webhook.
17. Define the Alert Rule Details:
18. Provide a name and description for the alert rule.
19. Set the severity level (e.g., Sev 3 for warning).
20. Click "Review + create" and then "Create".

**2. Send Diagnostics Logs from an Azure Storage Account to a Log Analytics Workspace**

1. Enable Diagnostic Settings:
2. Go to the Azure portal and navigate to your storage account.
3. In the left-hand menu, click on "Diagnostic settings (classic)" or "Diagnostics settings".
4. Create a New Diagnostic Setting:
5. Click on "Add diagnostic setting.
6. Provide a name for the diagnostic setting.
7. Configure Log and Metric Collection:
8. Select the logs and metrics you want to collect (e.g., "Blob", "Table", "Queue", "File" logs).
9. Under "Destination details", select "Send to Log Analytics".
10. Select Log Analytics Workspace:
11. Choose the Log Analytics workspace where you want to send the logs.
12. Click "Save".

**3. Configure Alerts on Specific Metrics from the Log Analytics Workspace**

1. Navigate to Log Analytics Workspace:
2. Go to the Azure portal and navigate to your Log Analytics workspace.
3. Create a Log Search Query
4. In the workspace, go to "Logs".
5. Write a query to retrieve the specific metrics you are interested in (e.g., storage capacity usage).
6. Create an Alert Rule from the Query:
7. Click on "New alert rule".
8. Configure the scope by selecting the appropriate Log Analytics workspace.
9. Define the condition:
10. Click "Add condition".
11. In the "Configure signal logic" window, define the query-based condition.
12. Set the "Threshold value" and configure the alert logic (e.g., greater than a specific value).
13. Define the Action:
14. Click on "Add action group".
15. Either create a new action group or select an existing one.
16. Specify the actions such as sending an email, SMS, or invoking a webhook.
17. Define the Alert Rule Details:
18. Provide a name and description for the alert rule.
19. Set the severity level.
20. Click "Review + create" and then "Create".