To check logs in a Log Analytics workspace in Azure, follow these step-by-step instructions:

**Step 1: Sign in to the Azure Portal**

1. Open your web browser and go to the [Azure portal](https://portal.azure.com/).
2. Log in with your Azure credentials.

**Step 2: Navigate to Log Analytics Workspaces**

1. In the Azure portal, use the search bar at the top to search for "Log Analytics workspaces."
2. Select **Log Analytics workspaces** from the search results.

**Step 3: Select Your Log Analytics Workspace**

1. In the Log Analytics workspaces pane, you will see a list of your existing workspaces.
2. Click on the name of the workspace where you want to check the logs.

**Step 4: Access Logs**

1. In the selected Log Analytics workspace pane, click on **Logs** under the General section in the left-hand menu. This will open the Log Analytics query editor.

**Step 5: Write and Run a Query**

1. In the Log Analytics query editor, you can write queries using the Kusto Query Language (KQL) to retrieve and analyze logs.
2. For example, to get the most recent logs, you can use the following query:

kql

Copy code

AzureDiagnostics

| sort by TimeGenerated desc

| limit 50

1. Click on **Run** to execute the query and view the results.

**Step 6: Explore Common Log Queries**

1. You can use built-in queries for common log types. Click on **Query explorer** to access a list of saved queries.
2. Select a query from the list and click on **Load query** to run it.

**Step 7: Customize and Save Queries**

1. Modify the queries to fit your specific requirements.
2. To save a query for future use, click on **Save** at the top of the query editor, provide a name for the query, and click on **Save**.

**Step 8: Set Up Alerts Based on Log Data (Optional)**

1. To set up alerts based on specific log data, click on **New alert rule** at the top of the query editor.
2. Configure the alert rule by specifying the conditions, actions, and details for the alert.

**Example Queries**

**Virtual Machine Logs**

To check logs for a specific virtual machine, you can use:

kql

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AzureDiagnostics

| where ResourceType == "VIRTUAL\_MACHINE"

| where Resource == "<Your\_VM\_Name>"

| sort by TimeGenerated desc

| limit 100

**Network Security Group (NSG) Flow Logs**

To check NSG flow logs:

kql

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AzureDiagnostics

| where ResourceType == "NETWORKSECURITYGROUPS"

| where Category == "NetworkSecurityGroupFlowEvent"

| sort by TimeGenerated desc

| limit 100

**Step 9: Export Log Data (Optional)**

1. If you need to export the log data, click on the **Export** button at the top of the query results.
2. Choose the format (CSV, JSON) and download the data.

By following these steps, you can effectively check and analyze logs in a Log Analytics workspace in the Azure portal.