


# Documentation on Word to HTML (Report)

**Prerequisites:** Create a HTML Template for Reports with 3 columns (*Index | Content | Table of Contents*) PFA Format.

(Make a copy of that for the new Report and open it in a text editor and keep it ready.)

MICROSOFT HPC AZURE



AZURE HPC RECIPE DOCUMENT FOR ALTAIR ULTRAFLUIDX

Altair ultraFluidX

1 Introduction

2 Deploy Virtual Machine on Azure Cloud Platform

3 Install Altair ultraFluidX Application on Virtual Machine

4 Performance results of ultraFluidX on Azure virtual machine

5 Azure Consumption

6 Summary

1 Introduction

This document briefly explains the steps to install and run Altair ultraFluidX application on a Virtual Machine deployed in Azure Cloud Platform and presents the performance results.

This recipe document covers the following topics: -

- Deploy & connect a required virtual machine on Azure platform.
- Install required NVIDIA drivers in virtual machine.
- Install Application on virtual machine.
- Install license manager for current application
- Performance results of current application on azure virtual machine
- Azure consumption
- Summary

Table of Contents

1 Introduction

2 Deploy Virtual Machine on Azure Cloud Platform

2.1 Azure Cloud Architecture for Application

2.2 Azure Virtual Machine (VM)

2.3 Create a Virtual Machine on Azure Platform

2.4 Connect to virtual machine

2.5 Install Nvidia Drivers

3 Install Altair ultraFluidX Application on Virtual Machine

**STEP 1:** Switch Off any type of VPN that is connected.


**STEP 2:** Open the url: <https://www.pdfaid.com/doc-to-html.aspx>

**STEP 3:** Choose the original report which is in Doc format

← → ↺ 🏠

pdfaid.com/doc-to-html.aspx

🔒 ⭐ 📄 ⚙️

 PDFaid.com

Home All Tools ▾ Faq Contact

Note: Dear users, Please try to clear browser cache and cookies before using our applications as the application might not work as the website regularly updates with new changes. For more information on how to troubleshoot [🔗](#)

WORD to HTML | DOC to HTML

① Select a Word (doc or docx) file

Choose File 🖨️ 📁

STEP 4: Keep the Output Format unchanged

② Select output html options

Output Format:

☐ Javascript Version works only for docx

☒ No Javascript works for both doc and docx

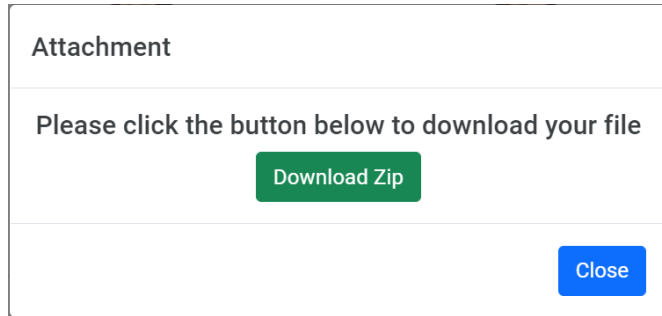
☒ CSS not required


STEP 5: Click on Convert File [It will take sometime to finish converting...]

③ Convert

Convert File Download File

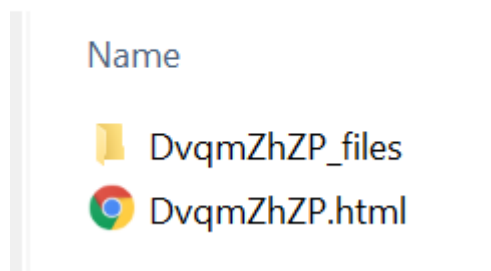
**STEP 6:** After it is done, Click Download File [the file will be downloaded in a .zip format]




 doc2html\_DvqmZhZP.zip

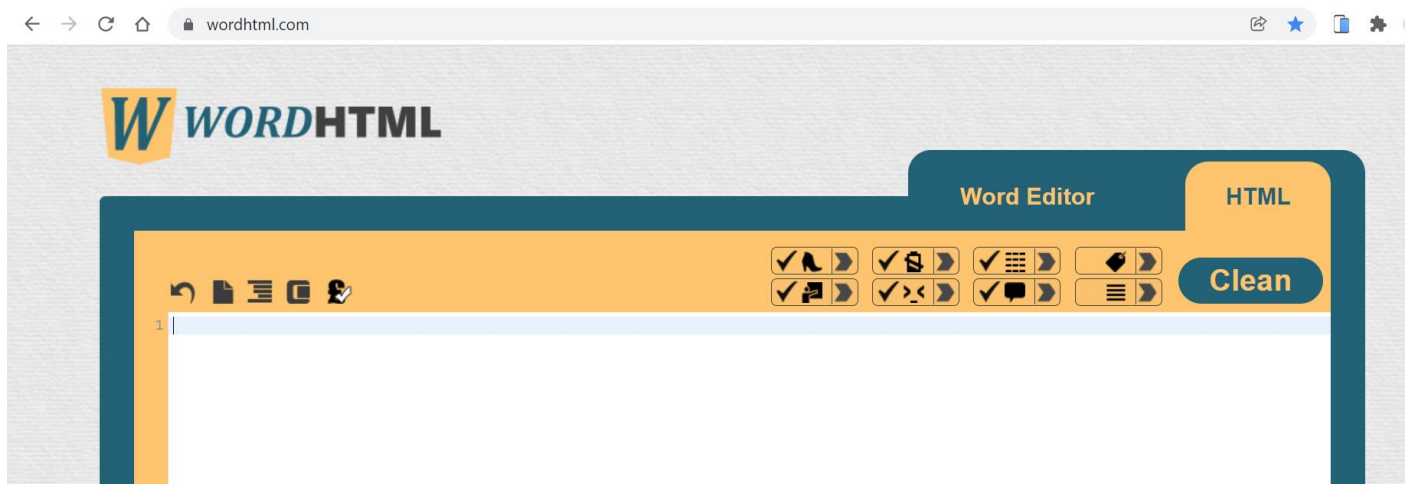
**STEP 7:** Extract the Zip folder [Zip folder has a folder with images and a html file]

doc2html\_DvqmZhZP

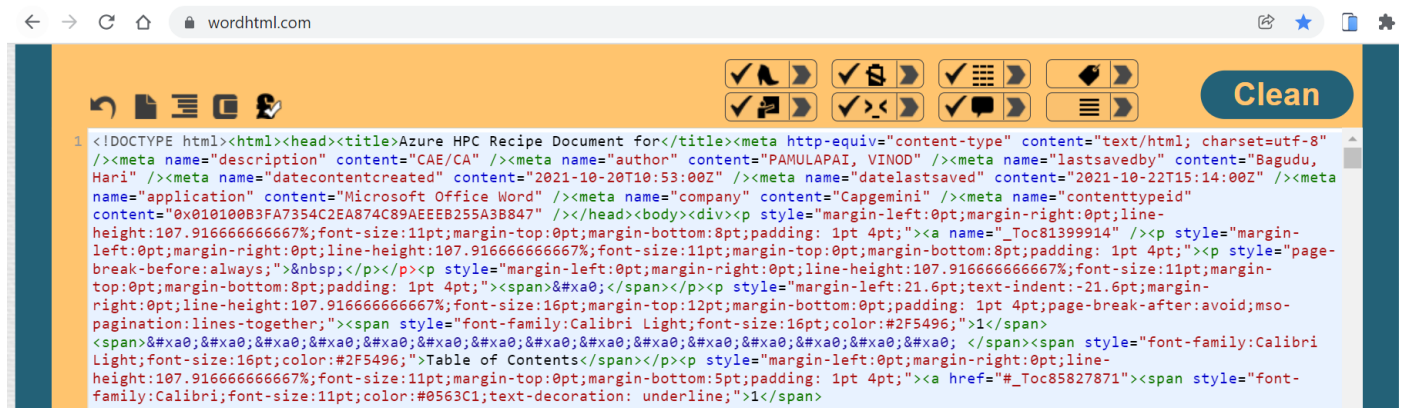


**STEP 8a:** Copy the Images Folder and add it into the Project Folder. Also rename it according to the <Report Name>\_Files (eg. nanoFluidX\_Files).

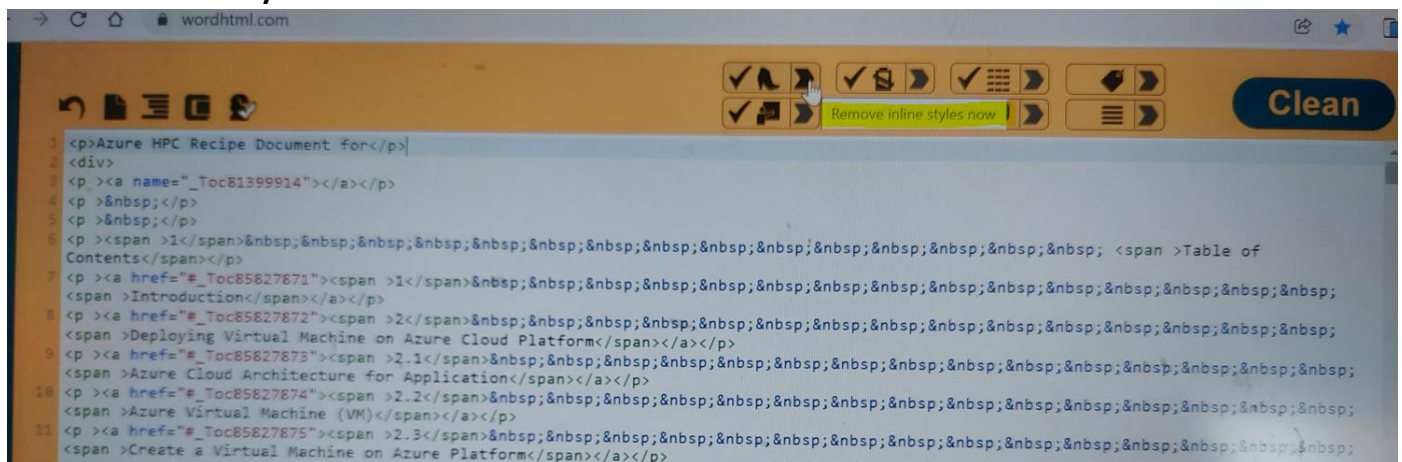
**STEP 8b:** Open the downloaded HTML file in a text editor. Copy the code and paste it on the  HTML Tab in the below mentioned URL: <https://wordhtml.com/>. [This is to clean up the html code for extra spaces, so that it will make the code more readable.]



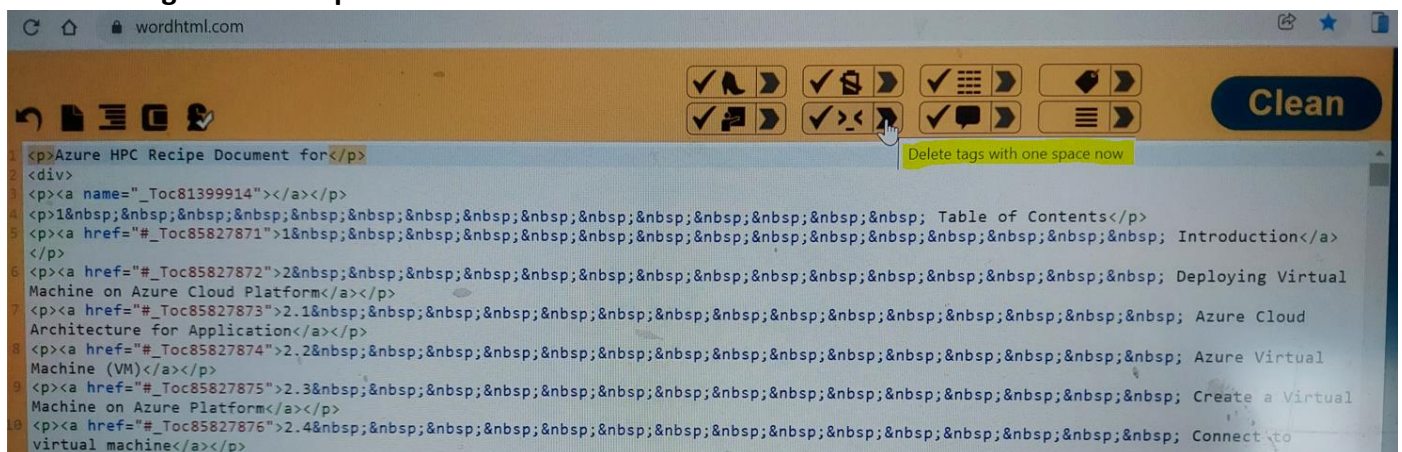
**BEFORE:**



### a. Remove inline styles



### b. Delete tags with one space



### c. Delete successive spaces



```
1 <p>Azure HPC Recipe Document for</p>
2 <div>
3 <p><a href="#"_Toc81399914"></a></p>
4 <p>1 Table of Contents</p>
5 <p><a href="#"_Toc85827871">1 Introduction</a></p>
6 <p><a href="#"_Toc85827872">2 Deploying Virtual Machine on Azure Cloud Platform</a></p>
7 <p><a href="#"_Toc85827873">2.1 Azure Cloud Architecture for Application</a></p>
8 <p><a href="#"_Toc85827874">2.2 Azure Virtual Machine (VM)</a></p>
9 <p><a href="#"_Toc85827875">2.3 Create a Virtual Machine on Azure Platform</a></p>
10 <p><a href="#"_Toc85827876">2.4 Connect to virtual machine</a></p>
11 <p><a href="#"_Toc85827877">2.5 Install Nvidia Drivers</a></p>
12 <p><a href="#"_Toc85827878">3 Install Altair nanoFluidX Application on Virtual Machine</a></p>
13 <p><a href="#"_Toc85827879">3.1 Download product</a></p>
14 <p><a href="#"_Toc85827880">3.2 Install Altair nanoFluidX application on Linux</a></p>
15 <p><a href="#"_Toc85827881">3.3 License Manager installation</a></p>
16 <p><a href="#"_Toc85827882">4 Performance results of Altair nanoFluidX on azure virtual machine</a></p>
17 <p><a href="#"_Toc85827883">4.1 Altair nanoFluidX Overview</a></p>
18 <p><a href="#"_Toc85827884">4.1.1 Model Details</a></p>
```

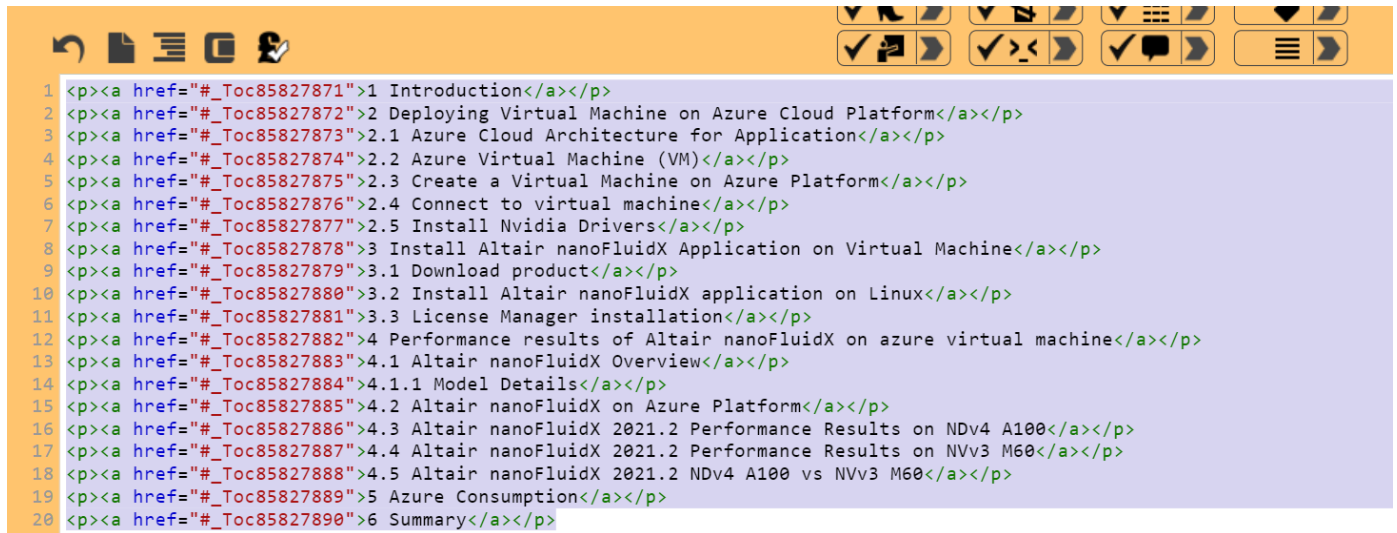
d. Delete the following code one on the top and other at the bottom.

```
1 <p>Azure HPC Recipe Document for</p>
2 <div>
3 <p><a href="#"_Toc81399914"></a></p>
4 <p>1 Table of Contents</p>
5 <p><a href="#"_Toc85827871">1 Introduction</a></p>
6 <p><a href="#"_Toc85827872">2 Deploying Virtual Machine on Azure Cloud Platform</a></p>
7 <p><a href="#"_Toc85827873">2.1 Azure Cloud Architecture for Application</a></p>
8 <p><a href="#"_Toc85827874">2.2 Azure Virtual Machine (VM)</a></p>
9 <p><a href="#"_Toc85827875">2.3 Create a Virtual Machine on Azure Platform</a></p>
10 <p><a href="#"_Toc85827876">2.4 Connect to virtual machine</a></p>
11 <p><a href="#"_Toc85827877">2.5 Install Nvidia Drivers</a></p>
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15 <p><a href="#"_Toc85827881">3.3 License Manager installation</a></p>
16 <p><a href="#"_Toc85827882">4 Performance results of Altair nanoFluidX on azure virtual machine</a></p>
17 <p><a href="#"_Toc85827883">4.1 Altair nanoFluidX Overview</a></p>
18 <p><a href="#"_Toc85827884">4.1.1 Model Details</a></p>
19 <p><a href="#"_Toc85827885">4.2 Altair nanoFluidX on Azure Platform</a></p>
20 <p><a href="#"_Toc85827886">4.3 Altair nanoFluidX 2021.2 Performance Results on NDv4 A100</a></p>
21 <p><a href="#"_Toc85827887">4.4 Altair nanoFluidX 2021.2 Performance Results on NVv3 M60</a></p>
22 <p><a href="#"_Toc85827888">4.5 Altair nanoFluidX 2021.2 NDv4 A100 vs NVv3 M60</a></p>
23 <p><a href="#"_Toc85827889">5 Azure Consumption</a></p>
24 <p><a href="#"_Toc85827890">6 Summary</a></p>
25 <p>1 <a href="#"_Toc85827871"></a>Introduction</p>
```

```
1908 <td>
1909 <p>$4.30</p>
1910 </td>
1911 <td>
1912 <p>$1.91</p>
1913 </td>
1914 </tr>
1915 <tr>
1916 <td>
1917 <p>NV48sV3</p>
1918 </td>
1919 <td>
1920 <p>4</p>
1921 </td>
1922 <td>
1923 <p>4</p>
1924 </td>
1925 <td>
1926 <p>0.23</p>
1927 </td>
1928 <td>
1929 <p>$8.59</p>
1930 </td>
1931 <td>
1932 <p>$1.94</p>
1933 </td>
1934 </tr>
1935 </tbody>
1936 </table>
1937 <p>3. Any complex problems can be solved within an hour or few on Azure ND A100_v4 instance.</p>
1938 <p>4. Expected speed-up is achieved with multi-GPUs.</p>
1939 </div>
1940 <p>2021 Capgemini &ndash; All rights Reserved22-10-2021</p>
1941 <p>v</p>
```

e. Copy the Table of contents and paste in in the toc section of the new Report Template under <label

class="px-3">Table of Contents</label> in the template.



f. Add an exclusive inline style for <p> tag <p style="padding: 1pt 4pt; margin: 0pt 0pt 5pt 11pt;" only for the sub table of contents (2.1 to 4.5). This Hs to be done manually.

```

<div class="col-2 px-1 px-sm-0 text-left index">
  <label class="px-3"><!--The Report Name goes here-->Altair nanoFluidX</label>
  <div class="index-scroll">
    <p><a name="_Toc81399914"></a></p>
    <p><a href="#_Toc85827871"><span>1</span> <span>Introduction</span></a></p>
    <p><a href="#_Toc85827872"><span>2</span> <span>Deploying Virtual Machine on Azure</span></a></p>
    <p><a href="#_Toc85827878"><span>3</span> <span>Install Altair nanoFluidX Application</span></a></p>
    <p><a href="#_Toc85827882"><span>4</span> <span>Performance results of Altair nanoFluidX</span></a></p>
    <p><a href="#_Toc85827889"><span>5</span> <span>Azure Cost</span></a></p>
    <p><a href="#_Toc85827890"><span>6</span> <span>Summary</span></a></p>
  </div>

```

#### AFTER:

Copy the cleaned html and paste it into the Report Template in the **content** section that is created under <!--The Report content goes here-->



**STEP 9:** Edit the code a little bit under the content section.

**Warning:** Be careful not to remove the anchor tags (eg. <a name="\_Toc85827890"></a>). Also, Do not remove the padding & margin from the toc section.

➔ Identify all the lists/points in the Reports... Add a class li for all the <p> tags that has list (eg. Add <p class="li"> and <ul></ul> before and after the list )

```

<!--Add <div class="overflow-table"> before
<!--The Report content goes here-->
<p>1 <a name="_Toc85827871"></a>Introduction</p>
<p><a name="_Toc81405760"></a>This document briefly explains the steps to install and run Altair nanoFluidX application on a Virtual Machine deployed in Azure Cloud Platform and presents the performance results.<a name="_Toc81389015"></a></p>
<p>This recipe document covers the following topics: -</p>
<p><a name="_Toc81389015"></a></p>
<p>Deploy & connect a required virtual machine on Azure platform.</p>
<p><a name="_Toc81389015"></a></p>
<p>Install required NVIDIA drivers in virtual machine.</p>
<p><a name="_Toc81389015"></a></p>
<p>Install Application on virtual machine.</p>
<p><a name="_Toc81389015"></a></p>
<p>Performance results of current application on Azure virtual machine.</p>
<p><a name="_Toc81389015"></a></p>
<p>Azure consumption</p>
<p><a name="_Toc81389015"></a></p>
<p>Summary</p>

```

```

<ul>
<p class="li">Deploy & connect a required virtual machine on Azure platform.</p>

<p class="li"> Install required NVIDIA drivers in virtual machine.</p>

<p class="li"> Install Application on virtual machine.</p>

<p class="li"> Install license manager for current application</p>

<p class="li"> Performance results of current application on Azure virtual machine</p>

<p class="li"> Azure consumption</p>

<p class="li"> Summary</p></ul>

```

- ➔ Change <p></p> to <h1></h1> for the Main Headings (1-6) eg. 1 Introduction | 2 Deploy Virtual Machine on Azure Cloud Platform under content Section

```

<p style="padding: 1pt 4pt; margin: 0pt 0pt 8pt 0pt;">
<p style="padding: 1pt 4pt; margin: 0pt 0pt 8pt 0pt;">
<p style="text-indent: -18pt; padding: 1pt 4pt; margin: 0pt 0pt 8pt 0pt;">
<p style="padding: 1pt 4pt; margin: 0pt 0pt 8pt 0pt;">
<p style="padding: 1pt 4pt; margin: 0pt 0pt 8pt 0pt;"><span style="font-family: Calibri"
<p style="text-align: center; padding: 1pt 4pt; margin: 0pt 0pt 8pt 0pt;"></a><span>Performance results of Altair nanoFluidX
<p style="text-align: center; padding: 1pt 4pt; margin: 0pt 0pt 8pt 0pt;">
<p></p>
<p>The detailed instruction can be found in the below highlighted document</p>
<p></p>
<h1>4 <a name="_Toc85827882"></a>Performance results of Altair nanoFluidX on azure virtual machine</h1>

```

- ➔ Change <p></p> to <h2></h2> for the Sub Headings (2.1 - 2.4 and 3.1 - 3.3 and 4.1 - 4.5 ) eg. 2.1 Azure Cloud Architecture for Application under content Section

```

> 2.3 | Aa .ab. * 1 of 2
background-color: #ffffff;">This VM Belongs to </span><a href="https://docs.microsoft.com/en-us/azure/virtual-machines/quickstart-portal">2.3</span> <a name="_Toc85827875"></a><a name="_Toc81405762"></a><span>
<p>This VM Belongs to <a href="https://docs.microsoft.com/en-us/azure/virtual-machines/quickstart-portal">2.3</a>
<h2>2.3 <a name="_Toc85827875"></a><a name="_Toc81405762"></a><span>
<p>Sign in to Azure</p>

```

- ➔ Add class li for all the <p> tags that has list (eg. add <ul><p class="li">)

- ➔ Add <div class="overflow-table"> before every <table> within the content.



```
<p>number of exclusive features which improve accuracy and make the code a
<p>The software is created and optimized for use on clusters of Graphical
<p>Altair nanoFluidX is ideal for the following industrial applications:</p>
<p>Powertrain: Oil flow simulation in rotating gearbox</p>
<p>Automotive and Aerospace: Tank sloshing simulations</p>
<p>4.1.1 <a name="_Toc85827884"></a><a name="_Toc81330561"></a>Model De<a name="_Toc81323179"></a>tails</p>
<p>A set of 4 test case models are considered for testing the performance of the Altair nanoFluidX on Azure VM. The
<p></p>
<table><colgroup><col /><col /></colgroup>
<tbody>
  <p class="li">The names of the application resources</p>
  <p class="li">The location where the resources are stored</p>
  <p class="li">The size of the VM</p>
  <p class="li">The operating system that the VM runs</p>
  <p class="li">The configuration of the VM</p>
  <p class="li">The related resources that the VM needs</p></ul>
  <p>There are different sizes and options available for the Azure virtual machines and user can use to run
  <p>To test the performance of Altair nanoFluidX on Azure Platform, <a href="https://docs.microsoft.com/en-
  <div class="overflow-table"><table><colgroup><col /><col span="6" /></colgroup>
  <tbody>
  <tr>
  </td>
  <td>
  <p>~7</p>
  </td>
  </tr>
  </tbody>
  </table>
<h2>4.2 <a name="_Toc85827885"></a>Altair nanoFluidX on Azure Platform</h2>
  </td>
  <td>
  <p>~7</p>
  </td>
  </tr>
  </tbody>
  </table></div>
<h2>4.2 <a name="_Toc85827885"></a>Altair nanoFluidX on Azure Platform</h2>
```

**STEP10:** Add the Images Folder within the Project Folder after renaming it as per the Report Name.  
Rename the  as per the images folder name.

```
container-lg.px-3.px-lg-0.rpt-wrapper > div.d-flex.flex-row.rpt > div.col-8.col-m
0pt 0pt DtoFLJhi_ 1 of 24
0pt 0pt nanoFluidX AB
</a><spa
0pt 0pt 8pt 0pt;"><a name="_Toc81389015"></a></p>
eak-after: avoid; mso-pagination: lines-together; margin: 2pt 0
0pt 0pt 8pt 0pt;"><span>The below Architecture explains the vir
eak-after: avoid; mso-pagination: lines-together; margin: 2pt 0p
g: 1pt 4pt; margin: 0pt 0pt 8pt 0pt;"><img src="DtoFLJhi_files/
eak-after: avoid; mso-pagination: lines-together; margin: 2pt 0p
```