

## **Perfstat GUI Read Me**

### **Overview:**

The Perfstat GUI provides a user interface to the Performance and Statistics Collector (Perfstat) utility running in a Windows environment. It provides the means to configure the SSH infrastructure for Perfstat to run as well as executing Perfstat with specified parameters.

### **Installation:**

The Perfstat GUI consists of a single file (Perfstatgui.hta). There is an optional file (PerfstatScriptTemplate.vbs) to run Perfstat within a scripted configuration. Copy these files to the directory of your choice on a supported Windows system.

### **Requirements:**

Perfstat GUI can be installed in any Windows environment that is currently supported by Perfstat (see the related Perfstat documentation for current supported environments).

### **Support:**

Add a comment or suggestion at the Perfstat GUI discussion thread here:

<https://communities.netapp.com/docs/DOC-28000>

### **Usage:**

To launch Perfstat GUI simply double click the Perfstatgui.hta file. When launched you are presented with three options. Select the appropriate option based upon the chart found here:

<http://support.netapp.com/NOW/download/tools/perfstat/>.

Follow the steps under the appropriate header below based upon the first selection.

### **ONTAP 7G or 7-Mode with Perfstat 7**

#### **Configuration -**

1. Select the "Create Local SSH Key" option. This option sets up OpenSSH for Windows and prepares a SSH key to utilize in conjunction with Perfstat. Before executing ensure the OpenSSH.zip file (downloaded from <http://support.netapp.com/NOW/download/tools/perfstat/OpenSSH.zip>) exists in the same directory as the Perfstat GUI. This option only needs to be performed a single time. If you attempt to run it again the GUI will detect that a local key already exists.
2. This next step is optional and only required if you wish to use a domain user to perform the Perfstat on the NetApp controller (as compared to using a local user such as root on the NetApp controller). If you desire this option select "Authorize Current Logged in Domain Windows User to Use SSH". Ensure you are logged in to the Windows system with the account that you wish to use on the NetApp controller.

3. Each NetApp controller that you wish to run Perfstat against will need to have the SSH keys copied to it. This only needs to be performed a single time for each controller. To perform this step select the option “Copy Local SSH Key to a 7-Mode NetApp Controller”. Complete the controller and user information. This selection provides 2 methods for copying the keys – either through a CIFS share or through password supplied SSH (which allows configuration if you don’t have the CIFS protocol installed). If you desire the CIFS option, complete the ETC share name, ensure you can get to the share name from the Windows system, and then click on the “Copy via CIFS” button. If you desire the SSH option, complete the root volume field, click on the “Copy via SSH” button, and then when prompted enter the password to access the NetApp controller to complete the copy.
4. Download the current Perfstat 7 version from <http://support.netapp.com/NOW/download/tools/perfstat/download7.shtml> and place the downloaded zip file into the same directory as the Perfstat GUI.

#### **Operation -**

5. For a simplified set of arguments for Perfstat to operate select the “Run Perfstat 7 with Basic Options” option. If you desire to complete set of arguments for Perfstat select “Run Perfstat 7 with All Options”. For the basic options, the most typical fields are presented while the “all options” provides every available argument in Perfstat. Hover over any of the fields for a description of the field. Refer to Perfstat documentation for more information on each field. When the fields you desired are completed click on the “Execute Perfstat” button. A new command window will open with Perfstat executing inside.
6. When complete the results file will be in the same directory as the Perfstat GUI with an .out extension. Select the “Upload File to NetApp” option and a full list of results files will be presented along with the link to the NetApp upload site.
7. There is an optional script that can be used when you want to run Perfstat outside of the GUI (i.e. as a scheduled task). The script can be configured to either run a single time or to run indefinitely with a new Perfstat launching when the previous one completes. To create a script, download the PerfstatScriptTemplate.vbs in the same directory as the Perfstat GUI. Then within the “Run Perfstat 7 with All Options” option select the checkbox for “Create Script Only”. The output in the Perfstat GUI will give you a line to add to the .vbs file along with basic configuration instructions. It is suggested to run Perfstat at least once without the “Create Script Only” option to ensure all settings are functioning correctly.

### **Clustered ONTAP with Perfstat Converged**

#### **Configuration -**

1. Select the “Create Local SSH Key” option. This option sets up OpenSSH for Windows and prepares a SSH key to utilize in conjunction with Perfstat. Before executing ensure the OpenSSH.zip file (downloaded from <http://support.netapp.com/NOW/download/tools/perfstat/OpenSSH.zip>) exists

in the same directory as the Perfstat GUI. This option only needs to be performed a single time. If you attempt to run it again the GUI will detect that a local key already exists.

2. Each NetApp controller that you wish to run Perfstat against will need to have the SSH keys copied to it. This only needs to be performed a single time for each controller. To perform this step select the option “Copy Local SSH Key to a Clustered NetApp Controller”. This will copy the SSH key to each controller in the cluster. Complete the cluster and user information. Click on the “Copy via SSH” button, and then when prompted enter the password to access the NetApp cluster to complete the copy.
3. To execute the system shell commands section of Perfstat, each NetApp controller will need to have the diag user unlocked and a password set. To perform this task select the “Prepare Diag Account on NetApp Controller” option. Enter the controller name or IP address and click on the Run button. You will be prompted to enter a password for the diag user (it must follow the security rules you have configured on the NetApp controller).
4. Download the current Perfstat Converged version from <http://support.netapp.com/NOW/download/tools/perfstat/perfstat8.shtml> and plink executable from <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html> and place the downloaded files into the same directory as the Perfstat GUI. If you have any issues with the plink.exe consult the plink download site for the “latest development snapshot”.

#### **Operation –**

5. For a simplified set of arguments for Perfstat to operate select the “Run Perfstat Converged with Basic Options” option. If you desire to complete set of arguments for Perfstat select “Run Perfstat Converged with All Options”. For the basic options, the most typical fields are presented while the “all options” provides every available argument in Perfstat. Hover over any of the fields for a description of the field. Refer to Perfstat documentation for more information on each field. When the fields you desired are completed click on the “Execute Perfstat” button. A new command window will open with Perfstat executing inside.
6. When complete the results file will be in the “OpenSSH\Bin” subdirectory of the directory as the Perfstat GUI with a .zip extension. Select the “Upload File to NetApp” option and a full list of results files will be presented along with the link to the NetApp upload site.
7. There is an optional script that can be used when you want to run Perfstat outside of the GUI (i.e. as a scheduled task). The script can be configured to either run a single time or to run indefinitely with a new Perfstat launching when the previous one completes. To create a script, download the PerfstatScriptTemplate.vbs in the same directory as the Perfstat GUI. Then within the “Run Perfstat Converged with All Options” option select the checkbox for “Create Script Only”. The output in the Perfstat GUI will give you a line to add to the .vbs file along with basic configuration instructions. It is suggested to run Perfstat at least once without the “Create Script Only” option to ensure all settings are functioning correctly.

## **ONTAP 7-Mode with Perfstat Converged**

### **Configuration -**

1. Select the “Create Local SSH Key” option. This option sets up OpenSSH for Windows and prepares a SSH key to utilize in conjunction with Perfstat. Before executing ensure the OpenSSH.zip file (downloaded from <http://support.netapp.com/NOW/download/tools/perfstat/OpenSSH.zip>) exists in the same directory as the Perfstat GUI. This option only needs to be performed a single time. If you attempt to run it again the GUI will detect that a local key already exists.
2. Each NetApp controller that you wish to run Perfstat against will need to have the SSH keys copied to it. This only needs to be performed a single time for each controller. To perform this step select the option “Copy Local SSH Key to a 7-Mode NetApp Controller”. Complete the controller and user information. This selection provides 2 methods for copying the keys – either through a CIFS share or through password supplied SSH (which allows configuration if you don’t have the CIFS protocol installed). If you desire the CIFS option, complete the ETC share name, ensure you can get to the share name from the Windows system, and then click on the “Copy via CIFS” button. If you desire the SSH option, complete the root volume field, click on the “Copy via SSH” button, and then when prompted enter the password to access the NetApp controller to complete the copy.
3. To execute the system shell commands section of Perfstat, each NetApp controller will need to have the diag user unlocked and a password set. To perform this task select the “Prepare Diag Account on NetApp Controller” option. Enter the controller name or IP address and a username for SSH access (typically root) and click on the Run button. You will be prompted to enter a password for the diag user (it must follow the security rules you have configured on the NetApp controller).
4. Download the current Perfstat Converged version from <http://support.netapp.com/NOW/download/tools/perfstat/perfstat8.shtml> and plink executable from <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html> and place the downloaded files into the same directory as the Perfstat GUI. If you have any issues with the plink.exe consult the plink download site for the “latest development snapshot”.

### **Operation –**

5. For a simplified set of arguments for Perfstat to operate select the “Run Perfstat Converged with Basic Options” option. If you desire to complete set of arguments for Perfstat select “Run Perfstat Converged with All Options”. For the basic options, the most typical fields are presented while the “all options” provides every available argument in Perfstat. Hover over any of the fields for a description of the field. Refer to Perfstat documentation for more information on each field. When the fields you desired are completed click on the “Execute Perfstat” button. A new command window will open with Perfstat executing inside.
6. When complete the results file will be in the “OpenSSH\Bin” subdirectory of the directory as the Perfstat GUI with a .zip extension. Select the “Upload File to NetApp” option and a full list of results files will be presented along with the link to the NetApp upload site.

7. There is an optional script that can be used when you want to run Perfstat outside of the GUI (i.e. as a scheduled task). The script can be configured to either run a single time or to run indefinitely with a new Perfstat launching when the previous one completes. To create a script, download the PerfstatScriptTemplate.vbs in the same directory as the Perfstat GUI. Then within the “Run Perfstat Converged with All Options” option select the checkbox for “Create Script Only”. The output in the Perfstat GUI will give you a line to add to the .vbs file along with basic configuration instructions. It is suggested to run Perfstat at least once without the “Create Script Only” option to ensure all settings are functioning correctly.