





## پیشگی واپس لینے کی درخواست

HPE SimpliVity Expansion & Storage Upgrade

پیشگی واپس لینے کی درخواست:

(IUL)196-C/1/2025/7

پیشگی واپس لینے کی درخواست:

30 ستمبر 2025

پیشگی واپس لینے کی درخواست:



#

**Requirements**HPE Performance Analysis Compute Option 1 Service

- **Deployment:**
  - Review of the existing compute infrastructure, including hardware and software inventory.
  - Detailed analysis of server utilization, CPU, memory, and I/O performance metrics.
  - Identification of underperforming or overutilized resources.
  - Assessment of system configurations and firmware levels affecting performance.
  - Suggestions for hardware and software upgrades to meet current and future workloads.
  - Guidance on tuning system parameters for improved resource efficiency.
  - Recommendations for workload balancing and resource allocation strategies.
- **Documentation and Knowledge Transfer:**
  - Comprehensive document detailing findings.
  - Actionable recommendations prioritized by impact and feasibility.

HPE Storage Firmware Remote Service

- **Planning**
  - Validation of system compatibility with the proposed firmware update versions.
  - Documentation of existing storage system configurations and firmware levels.
  - Confirmation of data backups and redundancy plans prior to the update.
- **Deployment:**
  - Installation of the latest firmware for HPE storage systems.
  - Application of any required prerequisite updates or patches.
  - Post-update testing to verify operational functionality and performance stability.
- **Documentation and Training:**
  - Comprehensive update report detailing the firmware version applied, update activities, and any issues resolved.
  - Recommendations for future maintenance or additional updates to enhance system longevity and performance

HPE Add On Options Install Service

- **Planning:**
  - Verification of compatibility between the memory modules and the target servers.
  - Documentation of the current server configuration, including existing memory capacity and layout.
  - Review of BIOS and firmware levels to ensure compatibility with the upgraded memory.
  - Confirmation of backup procedures to safeguard data integrity during the installation process.
- **Deployment:**
  - **Memory Module Installation:**
    - Proper handling and installation of HPE-certified memory modules into designated servers.
    - Adherence to HPE best practices for handling and seating memory components to ensure system reliability.
  - **System Configuration and Optimization:**
    - Verification of BIOS settings to enable and optimize new memory configurations.
    - Reconfiguration of system parameters to leverage the additional memory capacity effectively.
    - Execution of diagnostic tests to validate the successful integration and functionality of the newly installed memory.

| #   | Requirements  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
|-----|---|-----|-------------|---|---|---|---|---|--|---|--|----|--|---|--|---|--|---|--|---|--|---|--|---|-----------------------------------|---|--|---|------------------------|---|--|---|--|---|--|---|---------------------------------------|---|--|---|---|----|---|----|--------------------------|---|---|---|------------------------------------|---|--|---|---|---|-------------------------------|
| 2   | <b>Storage Upgrade</b>  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 2.1 | <p><b><u>Minimum Requirement</u></b></p> <table border="1"> <thead> <tr> <th>Qty</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HPE ProLiant DL380 Gen11 12LFF NC Configure-to-order Server</td> </tr> <tr> <td>2</td> <td>Intel Xeon-Silver 4410Y 2.0GHz 12-core 150W Processor</td> </tr> <tr> <td>8</td> <td>HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 Registered Smart Memory Kit</td> </tr> <tr> <td>2</td> <td>HPE 960GB NVMe Gen4 Mainstream Performance RI SFF BC U.3 Static V2 SSD</td> </tr> <tr> <td>12</td> <td>HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e HDD</td> </tr> <tr> <td>1</td> <td>Broadcom Ethernet 10/25Gb 2-port SFP28 Adapter for HPE</td> </tr> <tr> <td>1</td> <td>HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit</td> </tr> <tr> <td>1</td> <td>HPE MR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller</td> </tr> <tr> <td>1</td> <td>Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE</td> </tr> <tr> <td>2</td> <td>HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit</td> </tr> <tr> <td>1</td> <td>HPE iLO Advanced 1-server License</td> </tr> <tr> <td>1</td> <td>HPE ProLiant DL380/DL560 Gen11 2U High Performance Fan Kit</td> </tr> <tr> <td>1</td> <td>HPE Gen11 2U Bezel Kit</td> </tr> <tr> <td>1</td> <td>HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device</td> </tr> <tr> <td>1</td> <td>HPE ProLiant DL3XX Gen11 Easy Install Rail 3 Kit</td> </tr> <tr> <td>1</td> <td>HPE Compute Ops Management Enhanced 3-year Upfront ProLiant SaaS</td> </tr> <tr> <td>1</td> <td>HPE 3Year Tech Care Essential Service</td> </tr> <tr> <td>1</td> <td>Scality AOT per Person 3-day Advanced Operation Training Service</td> </tr> <tr> <td>1</td> <td>Scality ARTESCA 1 Server Standard Remote Installation Service</td> </tr> <tr> <td>55</td> <td>Scality ARTESCA Single Site per TB 3-year E-LTU</td> </tr> <tr> <td>55</td> <td>New Cluster Subscription</td> </tr> <tr> <td>2</td> <td>HPE 10Gb SFP+ SR Transceiver with 3m LC Duplex Fiber Optic Patch Cord</td> </tr> <tr> <td>1</td> <td>HPE ProLiant DL/ML Startup Service</td> </tr> <tr> <td>1</td> <td>HPE Onsite Network Configuration Service</td> </tr> <tr> <td>1</td> <td>HPE Compute FW Update Implantation Remote Service</td> </tr> <tr> <td>1</td> <td>HPE Perf Analysis for Storage</td> </tr> </tbody> </table> | Qty | Description | 1 | HPE ProLiant DL380 Gen11 12LFF NC Configure-to-order Server | 2 | Intel Xeon-Silver 4410Y 2.0GHz 12-core 150W Processor | 8 | HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 Registered Smart Memory Kit | 2 | HPE 960GB NVMe Gen4 Mainstream Performance RI SFF BC U.3 Static V2 SSD | 12 | HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e HDD | 1 | Broadcom Ethernet 10/25Gb 2-port SFP28 Adapter for HPE | 1 | HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit | 1 | HPE MR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller | 1 | Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE | 2 | HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit | 1 | HPE iLO Advanced 1-server License | 1 | HPE ProLiant DL380/DL560 Gen11 2U High Performance Fan Kit | 1 | HPE Gen11 2U Bezel Kit | 1 | HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device | 1 | HPE ProLiant DL3XX Gen11 Easy Install Rail 3 Kit | 1 | HPE Compute Ops Management Enhanced 3-year Upfront ProLiant SaaS | 1 | HPE 3Year Tech Care Essential Service | 1 | Scality AOT per Person 3-day Advanced Operation Training Service | 1 | Scality ARTESCA 1 Server Standard Remote Installation Service | 55 | Scality ARTESCA Single Site per TB 3-year E-LTU | 55 | New Cluster Subscription | 2 | HPE 10Gb SFP+ SR Transceiver with 3m LC Duplex Fiber Optic Patch Cord | 1 | HPE ProLiant DL/ML Startup Service | 1 | HPE Onsite Network Configuration Service | 1 | HPE Compute FW Update Implantation Remote Service | 1 | HPE Perf Analysis for Storage |
| Qty | Description   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE ProLiant DL380 Gen11 12LFF NC Configure-to-order Server   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 2   | Intel Xeon-Silver 4410Y 2.0GHz 12-core 150W Processor   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 8   | HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 Registered Smart Memory Kit  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 2   | HPE 960GB NVMe Gen4 Mainstream Performance RI SFF BC U.3 Static V2 SSD  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 12  | HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e HDD  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | Broadcom Ethernet 10/25Gb 2-port SFP28 Adapter for HPE  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE MR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 2   | HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE iLO Advanced 1-server License   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE ProLiant DL380/DL560 Gen11 2U High Performance Fan Kit  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE Gen11 2U Bezel Kit  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE ProLiant DL3XX Gen11 Easy Install Rail 3 Kit  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE Compute Ops Management Enhanced 3-year Upfront ProLiant SaaS  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE 3Year Tech Care Essential Service   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | Scality AOT per Person 3-day Advanced Operation Training Service  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | Scality ARTESCA 1 Server Standard Remote Installation Service   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 55  | Scality ARTESCA Single Site per TB 3-year E-LTU   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 55  | New Cluster Subscription  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 2   | HPE 10Gb SFP+ SR Transceiver with 3m LC Duplex Fiber Optic Patch Cord   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE ProLiant DL/ML Startup Service  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE Onsite Network Configuration Service  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE Compute FW Update Implantation Remote Service   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 1   | HPE Perf Analysis for Storage   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 2.2 | <p><b><u>Warranty</u></b></p> <ul style="list-style-type: none"> <li>• Should have Access to 3 years 24x7 Manufacturer's Customer Service and Support over the phone/remote TAC for troubleshooting assistance of Product.</li> <li>• Hardware Warranty shall include 3-Year Parts, Labor &amp; Onsite support with 24*7 4 Hours response.</li> </ul>   |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |
| 2.3 | <p><b><u>Installation and Configuration Service</u></b></p> <p><b><u>Overview</u></b></p> <p>The vendor MUST have at minimum the following OEM Certified Professional/Engineer to provide all required professional services. All relevant engineer(s) certificates and supporting documents shall be included with the proposal. The engineer(s) shall be available onsite for the duration of the service.</p> <ul style="list-style-type: none"> <li>• HPE Storage Certified</li> <li>• Scality Certified Architect</li> <li>• VMware Certified</li> </ul> <p>All of the following services shall be delivered as part of the scope of work</p> <p><b><u>Scality ARTESCA 1 Server Standard Remote Installation Service</u></b></p> <ul style="list-style-type: none"> <li>• <b>Planning:</b> <ul style="list-style-type: none"> <li>○ Validation of hardware compatibility and readiness for Scality ARTESCA deployment.</li> <li>○ Confirmation of network connectivity and required IP addressing schemes.</li> <li>○ Documentation of access credentials for remote installation.</li> </ul> </li> </ul>  |     |             |   |   |   |   |   |  |   |  |    |  |   |  |   |  |   |  |   |  |   |  |   |                                   |   |  |   |                        |   |  |   |  |   |  |   |                                       |   |  |   |   |    |   |    |                          |   |   |   |                                    |   |  |   |   |   |                               |

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**Requirements**

- **Service Deliverables:**

- Deployment of Scality ARTESCA software on the target server.
- Configuration of the server to establish connection with management systems and client environments.
- Post-installation validation of software functionality and integration.
- Provision of operational documentation and basic guidance on software usage.
- Provision of a detailed documentation outlining the installation and configuration activities performed.

HPE ProLiant DL/ML Startup Service

- **Planning:**

- Confirmation of hardware and related add-on if any.
- Availability of required network and power configurations.
- Validation of system requirements and software compatibility.

- **Deliverables:**

- Assembly and physical installation of server hardware.
- Configuration of BIOS settings and RAID as per customer requirements.
- Installation of operating systems and basic software, if included.
- Basic system testing to ensure hardware and software readiness.
- Provision of a detailed documentation outlining the installation and configuration activities performed.

HPE Onsite Network Configuration Service

- **Planning:**

- Review and validation of network architecture and design.
- Documentation of existing network configurations.
- Availability of necessary network hardware and cabling.

- **Deliverables:**

- Configuration of existing network switches, routers, and security devices.
- Implementation of VLANs, routing protocols, and security settings.
- Verification of network connectivity and performance.
- Provision of a detailed documentation outlining the design and configuration activities performed.
- 

HPE Compute Firmware Update Implementation Remote Service

- **Planning:**

- Documentation of current firmware versions and server configurations.
- Verification of backup procedures to prevent data loss.

- **Deliverables:**

- Installation of the latest firmware versions on target systems.
- Validation of compatibility and performance post-update.
- Provision of a detailed documentation outlining the installation and configuration activities performed.

HPE Performance Analysis for Storage

- **Planning:**

- Documentation of current storage configurations and performance metrics.

- **Deliverables:**

- Collection and analysis of performance data.
- Identification of performance inefficiencies and bottlenecks.

| # | Requirements   |
|---|--|
|   | <ul style="list-style-type: none"><li>○ Delivery of a detailed documentation with optimization recommendations.</li><li>○ Post-analysis support to implement suggested changes.</li><li>○ Provision of a detailed documentation outlining the installation and configuration activities performed.</li></ul> |

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|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• ބަނޑު ދަރަފްރާ ފަޔްލާސަތު، ޖިސަބުޖީ ޤައުމީ ޤިޔާމަތް ގެ ފަޔްލާސަތު ތެރެއިން ޤައުމީ ޤިޔާމަތް ފަޔްލާސަތު ގަޑިއިރުގެ ތެރެއިން ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ފަޔްލާސަތުގެ ފަޔްލާސަތު.</li> <li>• "ޤައުމީ ޤިޔާމަތް ފަޔްލާސަތު ގަޑިއިރުގެ ތެރެއިން ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ފަޔްލާސަތު ފަޔްލާސަތުގެ ފަޔްލާސަތު (ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު 2013/6) ގެ ފަޔްލާސަތު ޖިސަބުޖީ ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ފަޔްލާސަތުގެ ފަޔްލާސަތު ފަޔްލާސަތު.</li> </ul> | <p><b>ބަނޑު ދަރަފްރާ ފަޔްލާސަތު</b></p> |
|--|---|

| #   | ބަނޑު ދަރަފްރާ ފަޔްލާސަތު   |
|-----|---|
| 1   | <p><b>ބަނޑު ދަރަފްރާ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތު</b></p>   |
| 1.2 | <p>ބަނޑު ދަރަފްރާ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު.</p> <ul style="list-style-type: none"> <li>• ބަނޑު ދަރަފްރާ ފަޔްލާސަތު: 2025 ވަނަ އަހަރު 11، ނިންމާ ދަތުރު 10:00 ގައި ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު</li> <li>• ބަނޑު ދަރަފްރާ ފަޔްލާސަތު ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު.</li> <li>• ޤައުމީ ޤިޔާމަތު: <a href="mailto:procurement@pgoffice.gov.mv">procurement@pgoffice.gov.mv</a></li> <li>• ފަޔްލާސަތު 3003269 ގަޑިއިރު.</li> </ul> |
| 2   | <p><b>ބަނޑު ދަރަފްރާ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތު</b></p>   |
| 2.1 | <p>ނިންމާ ދަތުރު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު: 2025 ވަނަ އަހަރު 12، ނިންމާ ދަތުރު 10:00 ގައި.</p>   |
| 3   | <p><b>ބަނޑު ދަރަފްރާ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތު</b></p>   |
| 3.1 | <p>ނިންމާ ދަތުރު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު.</p>   |
| 3.2 | <p>ނިންމާ ދަތުރު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ( ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު )</p> <p>01 (މާލެ) ގައި ޖެހޭ ހުށަހަޅާ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ( ޤައުމީ ޤިޔާމަތު )</p>   |
| 3.3 | <p>ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު.</p>   |
| 3.4 | <p>ނިންމާ ދަތުރު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު.</p>  |
| 3.5 | <p>ބަނޑު ދަރަފްރާ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު 60 (ފަޔްލާސަތު) ދަތުރު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު.</p>   |
| 3.6 | <p>މި ބަނޑު ދަރަފްރާ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު ޤައުމީ ޤިޔާމަތުގެ ފަޔްލާސަތު.</p>   |





שאלה מס' 2: סדרת האיברים הנ"ל.

| # | היחס  |
|---|---|
|   | <p>האיבר ה-<math>n</math> הוא <math>a_n = 2n - 1</math> עבור <math>n \in \mathbb{N}</math>.<br/>                     מצאו את סכום האיברים הראשונים <math>100</math> של הסדרה.</p>   |
| 1 | <p>הסדרה היא סדרה חשבונית עם <math>a_1 = 1</math> ו-<math>d = 2</math>.<br/>                     לפי הנוסחה לסכום האיברים הראשונים של סדרה חשבונית:<br/> <math display="block">S_n = \frac{n}{2} (2a_1 + (n-1)d)</math>                     נציב <math>n = 100</math>, <math>a_1 = 1</math> ו-<math>d = 2</math>:<br/> <math display="block">S_{100} = \frac{100}{2} (2 \cdot 1 + (100-1) \cdot 2) = 50 (2 + 198) = 50 \cdot 200 = 10000</math></p> |
| 2 | <p>הסדרה היא סדרה חשבונית עם <math>a_1 = 1</math> ו-<math>d = 2</math>.<br/>                     מצאו את האיבר ה-<math>10</math> של הסדרה.</p>  |
| 3 | <p>הסדרה היא סדרה חשבונית עם <math>a_1 = 1</math> ו-<math>d = 2</math>.<br/>                     מצאו את האיבר ה-<math>10</math> של הסדרה.</p>  |
|   | <p>הסדרה היא סדרה חשבונית עם <math>a_1 = 1</math> ו-<math>d = 2</math>.<br/>                     מצאו את האיבר ה-<math>10</math> של הסדרה.</p>  |

1. مَؤَسَسَہٴ زَمْرَہٴ قَہْرَمَہٴی وَاہْمُورَہٴی دَرِیَاقَہٴی سَہٴ:

مَؤَسَسَہٴ زَمْرَہٴ قَہْرَمَہٴی سَہٴ: (وَاہْمُورَہٴی مَہْمُورَہٴی سَہٴ)

.....

مَؤَسَسَہٴ زَمْرَہٴ قَہْرَمَہٴی اَرِیَاقَہٴی:

.....

مَؤَسَسَہٴ زَمْرَہٴ قَہْرَمَہٴی مَؤَسَسَہٴ سَہْمَہٴی قَہْرَمَہٴی قَہْرَمَہٴی سَہٴ:

.....

دَہْمُورَہٴی سَہْمُورَہٴی:.....

اَرِیَاقَہٴی اَرِیَاقَہٴی:.....

2. وَاہْمُورَہٴی مَہْمُورَہٴی سَہْمُورَہٴی اَرِیَاقَہٴی سَہٴ:

وَاہْمُورَہٴی مَہْمُورَہٴی سَہْمُورَہٴی اَرِیَاقَہٴی سَہٴ:

.....

سَہْمُورَہٴی اَرِیَاقَہٴی وَاہْمُورَہٴی سَہْمُورَہٴی:.....

تَرِیَاقَہٴی قَہْرَمَہٴی اَرِیَاقَہٴی قَہْرَمَہٴی وَاہْمُورَہٴی سَہْمُورَہٴی سَہْمُورَہٴی:

سَہْمُورَہٴی

سَہْمُورَہٴی

3- اَرِیَاقَہٴی مَہْمُورَہٴی سَہْمُورَہٴی سَہٴ:

اَرِیَاقَہٴی سَہْمُورَہٴی قَہْرَمَہٴی دَہْمُورَہٴی:.....

دَہْمُورَہٴی زَمْرَہٴ دَہْمُورَہٴی: (سَہْمُورَہٴی قَہْرَمَہٴی سَہْمُورَہٴی)

دَہْمُورَہٴی زَمْرَہٴ اَرِیَاقَہٴی (قَہْرَمَہٴی مَہْمُورَہٴی):.....

مَؤَسَسَہٴ قَہْرَمَہٴی:

نَہْمُورَہٴی اَرِیَاقَہٴی سَہْمُورَہٴی سَہْمُورَہٴی

سَہْمُورَہٴی:

اَرِیَاقَہٴی سَہْمُورَہٴی:

سَہْمُورَہٴی:

مَہْمُورَہٴی: