Myriad Pre-Install Network Worksheet

Complete this worksheet in advance for the smoothest installation experience when your system arrives. You might need to consult your IT expert, network administrator, or integrator to gather some of this information, and confirm that you can connect the system to your 10 Gigabit or faster Ethernet switch. Keep a copy of this worksheet nearby when you set up your system.

Before you continue, Quantum strongly recommends you review all the **requirements** and relevant information on the **Site Planning** page within the **Myriad Documentation Center** at https://gsupport.guantum.com/kb/flare/Content/Myriad/DocSite/Default.htm#Topics/Plan.htm.

As you set up your system using the **Setup Wizard**, you can move your cursor over the tool tip icon next to many of the fields in the web interface. The tool tips describe the fields and requirements for data entry.

| Site Readiness | | |
|---|-----------------------|--|
| Is the correct power available ? | | |
| Is the correct cooling available ? | | |
| Is there adequate rackspace for the installation ? | | |
| Cage nuts and screws available? (Note: 24 are required) | | |
| | Switch Manufacturer | |
| | Switch Model | |
| Missiand Load Dalaman Madas (LDM) Connectivity | Software Version | |
| Myriad Load Balancer Nodes (LBN) Connectivity: | Port Count | |
| | Port Type | |
| | Cable Type | |
| | GbE Port Available? | |
| Myriad Deployment Node (DN) Connectivity: | DHCP Available? | |
| | Internet Accessible? | |
| Network personnel available during installation? | | |
| | Cluster Name: | |
| | Ingress FQDN: | |
| Myriad Configuration Parameters: | Internal IPv4 Subnet: | |
| | External IPv4 Range: | |
| | Myriad ASN: | |
| | | |
| | NTP Servers | |
| Network Services: | | |
| | | |
| | DNS Servers | |
| | | |

| Miscellaneous | |
|---|--|
| Password for Admin Account (Do not write it down but have it ready for the install) | |
| Do you have a backup Plan? [see Best Practices for a Myriad Backup] | |

| Unified UI (UUI) Settings | | | |
|---|-------------------------------------|------|--|
| Email address/username(for the UUI admin user account | t) | | |
| Password (for the UUI admin user account) (Do not write it of | down but have it ready during insta | all) | |
| SMTP Server IP | | | |
| Sender Address | | | |
| Active Directory Integration (UUI Users) | Yes | No | |

| <u> </u> | | | | |
|--|---------------------|--------------------------------|---------------------------------|--|
| Certificate Management Settings | | | | |
| SSL Certificates: By default, Myriad uses a self-signed of file and key file, or a PEM chain file. | certificate for bro | owser connectivity. Optionally | y, you can upload a certificate | |
| Self Signed Certificate (Generated Automatically) | Yes | No | | |
| For certificate and key upload (not self signed / automa | tically generated | i): | | |
| Certificate File (Do not write it down but have it ready during insta | 11) | | | |
| Key File (Do not write it down but have it ready during install) | | | | |
| For PEM chain file upload (not self signed / automatical | lly generated): | | | |
| PEM Chain File (Do not write it down but have it ready during install) | | | | |
| | | | | |

Network Requirements

The following network-related items are needed as inputs to the Setup Wizard when you initially configure you Myriad cluster.

- Cluster Name: A name for the Myriad cluster to distinguish it from other systems.
- Ingress FQDN: The fully qualified domain name (FQDN) that will be used to access the Myriad cluster.
- ASN: This is the Autonomous System Number chosen for the Myriad cluster. Any ASN in the private range (64512 65534) is acceptable, as long as it is unique within your environment. The default ASN is 65000.
- Internal Subnet: An IP range to be used by Myriad for the internal cluster network. This should be a non-routable range that is not otherwise in use by devices on the customer network that need access to this Myriad cluster. The range must be expressed in CIDR notation. Quantum recommends the default of 172.16.0.0/16, unless there is a conflict with this range.
- External IPv4 Range (in CIDR notation): An IP range to be used by Myriad for the external network connections to your network. This should be a private IP range that is routable and must be expressed using CIDR notation. A block as small as /29 (which contains 8 IP addresses) is acceptable for Myriad clusters that may grow to contain up to 40 storage nodes. If more than 40 storage nodes are anticipated, a larger block should be assigned to avoid the need for reconfiguration in the future. The first IP in this range is assigned as the ingress IP for the cluster. The rest of the IP addresses in the range are used sequentially to provide egress IP addresses for the load balancer nodes (Quantum recommends this range is non-routable and not used by any devices on your network).
- NTP: To enable NTP, you must provide the hostname or IP address of the chosen NTP server or server pool as well as the time zone. Note, your SMTP server must be configured to accept traffic from the entire Myriad external IPv4 range (for example, 192.168.1.16/28).
- SSL Certificates: By default, Myriad uses a self-signed certificate for browser connectivity. Optionally, you can upload a certificate file and key file, or a PEM chain file.
- DHCP must be able to assign an address to the 1 GbE deployment node management port (eth0).
- All Myriad ethernet ports that connect to the customer's network (1 GbE management and 100 GbE data) must be able to reach the same customer-designated DNS server's IP address.

Ports and Protocols

The table below summarizes the TCP/UDP ports used on the external interfaces and the purpose for each.

| Node Type | Interface(s) | Port | Protocol | Direction | Purpose |
|---------------|--------------|------|----------|------------|----------------------------------|
| Deployment | 1 GbE | 443 | TCP | In and Out | HTTPS Software Image Download |
| | | 67 | UDP | In | DHCP |
| | | 68 | UDP | Out | DHCP |
| | | 123 | UDP | In and Out | NTP Time Synchronization |
| Load Balancer | 100 GbE | 2049 | TCP | In | NFSv4 Server Listener |
| | | 6343 | UDP | Out | sFLOW (Optional) |
| | | 161 | UDP | In | SNMP (Optional) |
| | | 162 | UDP | Out | SNMP (Optional) |
| | | 587 | TCP | Out | SMTPS Email Alerts (Optional) |
| | | 123 | UDP | In and Out | NTP Time Synchronization |
| | | 179 | TCP | In and Out | BGP |
| | | 53 | UDP | In and Out | DNS |

Planning for a Myriad Backup

Are you storing business-critical data on Myriad? Have you formulated an appropriate disaster recovery plan? Quantum recommends you review the best practices for a Myriad backup on the Best Practices for a Myriad Backup page within the Myriad Documentation Center at https://qsupport.quantum.com/kb/flare/Content/Myriad/DocSite/Default.htm#Topics/Bac