WarpStor Evaluation Configuration Workbook

WarpStor Evaluation Configuration Workbook 1

1. Topology configuration 2

1.1. Inline Topology 2

1.2. DA Topology 3

1.3. SA Topology 3

2. Network Hardware Configuration 4

2.1. Client Facing Configuration 4

2.2. Management Port Facing Switch 4

2.3. Filer Facing Configuration 5

3. Environment Integration Information 6

3.1. Authentication 6

3.2. Client Workstation Information 6

1. Topology configuration

Please choose and fill-in **ONE** topology only.

## Inline Topology

In this deployment topology, WarpStor will use a Filer (NetApp, EMC, etc…) as its backend storage. No data will be stored on the WarpStor appliance itself.

Client

Machines

WarpStor Appliance

Filer

Upstream

(Client Facing) Configuration

Downstream

(Filer Facing) Configuration

|  |  |  |  |
| --- | --- | --- | --- |
| Item # | Entry | Value | Description |
|  | Client Facing Subnet |  | 10.66.124.0/255.255.252.0 |
|  | Filer facing Subnet |  | 10.66.8.0/255.255.255.0 |
|  | Filer facing assigned IP |  | 10.66.8.35/255.255.255.0 |
|  | DNS servers  |  | 10.66.8.129,10.66.8.130 |
|  | Filer model and configuration  |  | FAS8040 x 4 nodes – Cluster mode – 8.3.1cDOT |
|  | IPv4 details of Filer  |  | 10.66.8.35255.255.255.010.66.8.1 |
|  | NFS transport  |  | TCP/IP |
|  | NFS exported share/volume name from Filer |  | /methodics\_eval |
|  | NFS mount options from appliance to Filer |  | -rw,hard,bg,intr,vers=3,tcp,timeo=600,rsize =32768,wsize=32768 |
|  | NFSv4 enabled on Filer? (Y/N) |  | Yes |
|  | NFS delegation enabled on Filer? (Y/N) |  | Yes |
|  | Filer De-Dup enabled? (Y/N) |  | Yes |
|  | Total size of exported NFS share |  | 3TB |
|  | Aggregate description under NFS share  |  | 88 x 600GB 10K SAS disks |
|  | Estimated # of connected clients |  | ? |

## DA Topology

 WarpStor uses a SAN or DAS as back-end store

|  |  |  |  |
| --- | --- | --- | --- |
| Item # | Entry | Value | Description |
|  | Client Facing Subnet |  | Example: 10.8.6.0/24 |
|  | DNS servers  |  | IP Address or Names |
|  | Total Size of attached storage  |  | Example: 1 TB |
|  | Aggregate description under NFS share |  | Eg: # of spindles, disk sizes, slices |
|  | Estimated # of connected clients |  |  |

## SA Topology

WarpStor uses its own internal storage. This is not recommended for enterprise deployment.

|  |  |  |  |
| --- | --- | --- | --- |
| Item # | Entry | Value | Description |
|  | Total Size of requested storage |  | Example: 2 TB |
|  | Client Facing Subnet |  | Example: 10.8.6.0/24 |
|  | DNS servers  |  | IP Address or Names |
|  | Estimated # of connected clients |  |  |

1. Network Hardware Configuration

Switch configurations for the WarpStor appliance. Note that all ports of the appliance could be connected to the same switch.

## Client Facing Configuration

This is required for all topologies.

|  |  |  |  |
| --- | --- | --- | --- |
| Item # | Entry | Value | Description |
|  | Switch configuration |  | Juniper EX4500 – 2 switches for redundancy |
|  | Switch VLAN Settings  |  |  |
|  | Switch Port Type |  | SFP+ (twinax) |
|  | Switch Port Speed |  | 10Gbps |
|  | Switch Port Config |  | Full duplex, auto neg |
|  | Client facing assigned IP address(es) |  | 10.66.8.205/24 |
|  | Switch Auto-negotiable speed? (Y/N) |  | Y |
|  | If not auto-negotiated, then speed setting and duplex |  |  |

## Management Port Facing Switch

This is required for all topologies.

|  |  |  |  |
| --- | --- | --- | --- |
| Item # | Entry | Value | Description |
|  | Switch Configuration |  | Juniper EX4200 |
|  | Switch VLAN Settings  |  |  |
|  | Switch Port Type |  | RJ45 – Cat 6 |
|  | Switch Port Speed |  | 1Gbs |
|  | Switch Port Config |  | Full duplex, auto neg |
|  | Management port assigned IP address(es) |  | 10.66.7.30/24 |
|  | Switch Auto-negotiable speed? (Y/N) |  | Y |
|  | If not auto-negotiated, then speed setting and duplex |  |  |
|  | Admin Dashboard TCP/IP port |  | Default: 5000 |

## Filer Facing Configuration

* Please fill this section only if applicable (if the topology selected is ‘Inline’).
* Is the WarpStor appliance directly connected to the Filer? (Y/N)
	+ If Yes, then what is the connectivity type: (FibreChannel, Ethernet, IB)
	+ If NO, please fill out the table below for the switch configuration

|  |  |  |  |
| --- | --- | --- | --- |
| Item # | Entry | Value | Description |
|  | Switch Configuration |  | Juniper EX4500 – 2 switches for redundancy |
|  | Switch VLAN Settings  |  |  |
|  | Switch Port Type |  | SFP+ (twinax) |
|  | Switch Port Speed |  | 10Gbps |
|  | Switch Port Config |  | Full duplex, auto neg |
|  | Switch Auto-negotiable speed? (Y/N) |  | 10.66.8.233/24 |
|  | If not auto-negotiated, then speed setting and duplex |  | Y |
|  |  |  |  |

1. Environment Integration Information

## Authentication

WarpStor needs UIDs and GIDs to be configured correctly to operate properly. If there is a mismatch between WarpStor’s configured UIDs and GIDs and external requests, errors will occur. **Option 1 (below) is recommended in evaluation situations.**

Please select one the appropriate methods below:

1. List of UserID:GroupID that will access the appliance. This list of UID/GID will be added to the appliance to satisfy NFS permissions and ownership.
2. LDAP information: LDAP server IP address/Distinguished name/bind credentials (if applicable). WarpStor will connect indirectly (*via its own Radius proxy*) to your LDAP server to verify credentials and match UID/GID.
3. Radius information: IP, secret string, whitelist WST-IP. WarpStor will connect indirectly (*via its own Radius proxy*) to your Radius server to verify credentials and match UID/GID

## Client Workstation Information

WarpStor requires **autofs** to be installed on each client in order to allow the client to browse, read and write to the exported NFS shares.

To that effect, WarpStor ships an autofs map file that needs to be installed in “<client\_host>:/etc/“; this typically requires root or sudo access once to perform that operation.

The file “<client\_host>:/etc/auto.master“ also needs to be modified once, to include the provided map file. This also needs root or sudo access just once, at setup time.

Methodics provides a script that handles that configuration step; all that needs to be done is to run the script once as root or using sudo.