

# How to configure IOPS capacity and Latency values for your storage infrastructure

Out of the box VMTurbo has IOPS values pre-configured to 500 IOPS capacity and 1000ms Latency. Here's how to tailor this to your environment.

On the Policy tab, select Analysis. This is a Global Storage Setting.

**Policy Editor**

**Category:**

- Group Management
- Workload Placement
- Analysis**
- Action
- Application Priority
- Discovery
- Email Notification
- Retention

**Global Settings:** Analysis

**Global Operational Constraints**

- ▶ Hardware Costs [ \$ ]
- ▶ Heatmap Critical Utilization [ % ]
- ▶ Reporting Upper/Lower Bounds
- ▶ Resize Recommendation Incrementing Constants
- ▶ Utilization Thresholds [ % ]
- ▶ Advanced

Apply Reset Defaults

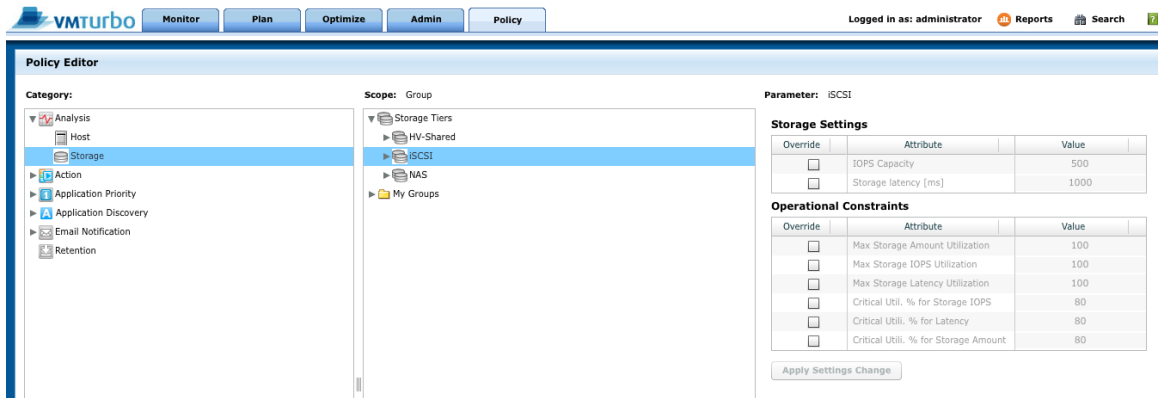
**Global Storage Settings**

Attribute	Value
IOPS Capacity	500
Storage latency [ms]	1000

Apply Reset Defaults

Next let's look at going a bit more granular.

You can also click on the storage icon underneath analysis to set on a per-type basis:



The screenshot shows the VMTurbo Policy Editor interface. At the top, there are navigation tabs: Monitor, Plan, Optimize, Admin, and Policy. The user is logged in as 'administrator'. The main area is titled 'Policy Editor' and is divided into three sections:

- Category:** A tree view on the left showing 'Analysis' expanded, with sub-items: Host, Storage (selected), Action, Application Priority, Application Discovery, Email Notification, and Retention.
- Scope:** A tree view in the middle showing 'Group' expanded, with sub-items: Storage Tiers, HV-Shared, ISCSI (selected), NAS, and My Groups.
- Parameter:** A table on the right showing settings for the 'ISCSI' parameter.

The 'Storage Settings' table is as follows:

Override	Attribute	Value
<input type="checkbox"/>	IOPS Capacity	500
<input type="checkbox"/>	Storage latency [ms]	1000

The 'Operational Constraints' table is as follows:

Override	Attribute	Value
<input type="checkbox"/>	Max Storage Amount Utilization	100
<input type="checkbox"/>	Max Storage IOPS Utilization	100
<input type="checkbox"/>	Max Storage Latency Utilization	100
<input type="checkbox"/>	Critical Util. % for Storage IOPS	80
<input type="checkbox"/>	Critical Util. % for Latency	80
<input type="checkbox"/>	Critical Util. % for Storage Amount	80

At the bottom of the parameter settings, there is an 'Apply Settings Change' button.

Let's take a look at an example.

## Set the policy here

**Policy Editor**

**Category:**

- Group Management
- Workload Placement
- Analysis
- Host
- Storage**
- Action
- Application Priority
- Discovery
- Email Notification
- Retention

**Scope:** Group

- Storage By Cluster
- Storage By Datacenter
  - Storage\_Beta**
    - Storage\_Development41
    - Storage\_QualityAssurance41
  - Storage Tiers
  - My Groups

**Parameter:** Storage\_Beta

**Operational Constraints**

- Heatmap Critical Utilization [%]
- Utilization Thresholds [%]

**Storage Settings**

Override	Attribute	Value
<input type="checkbox"/>	IOPS Capacity	500
<input type="checkbox"/>	Storage latency [ms]	1000

Apply Settings Change

**Scope:** Group

- Storage By Cluster
- Storage By Datacenter
  - Storage\_Beta**
    - ISCSIDisk1
    - ISCSIDisk2
    - ISCSISharedDisk1
    - ISCSISharedDisk2
    - NFSShare
    - Storage\_Development41
    - Storage\_QualityAssurance41
  - Storage Tiers
  - My Groups

**Parameter:** Storage\_Beta

**Operational Constraints**

- Heatmap Critical Utilization [%]
- Utilization Thresholds [%]

**Storage Settings**

Override	Attribute	Value
<input checked="" type="checkbox"/>	IOPS Capacity	5000
<input type="checkbox"/>	Storage latency [ms]	1000

Apply Settings Change

New policy in effect for storage in this group Storage\_Beta:

**Scope:** Storage

- Storage By Cluster
- Storage By Datacenter
  - Storage\_Beta
    - ISCSIDisk1**
    - ISCSIDisk2
    - ISCSISharedDisk1
    - ISCSISharedDisk2
    - NFSShare
    - Storage\_Development41
    - Storage\_QualityAssurance41
  - Storage Tiers
  - My Groups

**Parameter:** ISCSIDisk1

**Operational Constraints**

- Heatmap Critical Utilization [%]
- Utilization Thresholds [%]

**Storage Settings**

Attribute	Value	Defined In
IOPS Capacity	5000	Storage_Beta
Storage latency [ms]	1000	Global

Apply Settings Change

In all VMTurbo Enterprise and Cloud Operations Manager you can create groups of storage (to capture your storage tiers), and set these values on a per-tier basis. This feature is not available in the Community Edition.