

**ManageEngine**   
**AD Audit Plus**

Hard Disk Space  
Management

# Hard Disk Space Management

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As events occur across Domains & Servers, the event logs get filled with data, that are processed for meaningful information (reports / forensics) and later archived (save disk space & historical reporting); the disk space required to store the ever growing event log data is unique & depends on the number of domain controllers, file servers, workstations...

Don't for one second think we advice you to refrain from adding DCs & Servers.....

However, with increased resources come, increased need for disk space and we will do our best to suggest the most optimum RAM, minimum disk space and event log settings and in turn ensuring the apt auditing environment.

- Hardware Requirements
- Software Requirements
- Active Directory Auditing
- File Server Auditing
- Disk Space Alerts

# Hardware Requirements

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Hardware	Recommended
Processor	P4 - 1.5 GHz
RAM	2 GB
Disk Space	20 GB

# Software Requirements

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## Supported Microsoft Windows Operating Systems

Windows XP | Windows Vista | Windows 7 | Windows 8 | Windows 8.1 | Windows Server 2003 | Windows Server 2008  
Windows Server 2008 R2 | Windows Server 2012 | Windows Server 2012 R2

## Supported Browsers

Internet Explorer 6 and above | Firefox 2.0 and above | Chrome  
Preferred screen resolution : 1024 x 768 pixels or higher

## Supported Platforms

Active Directory 2000 and above | Windows File Server 2003 and above  
NetApp Filer - Data ONTAP 7.2 and above | EMC Storage Systems - VNX, VNXe and Celerra  
Windows Failover Cluster with SAN

# Disk Space Requirement

The hard disk requirements computation for Active Directory Auditing & File Server Auditing are detailed in the tables below. The numbers reached are with a simple calculation based on the number of users, number of days and the approx size of an event log.

## Active Directory Auditing

Number of Users	No of Days	Total Size
1	1	15 Kb
10000	90	$15 * 10000 * 90 =$ 13500000 Kb (13 GB)

**For example, let us imagine the below scenario:**

No of Domain Controllers : 5 | No of users : 10000 | No of Days : 90  
Average log size : 15 kb

**Disc Space** : Average Log Size \* No of Users \* No of Days  
: 15 kb \* 10000 \* 90 = 13500000 (12.8 GB)

**Archive** : (Average Log Size \* No of Users \* No of Days) / 10  
: (12.8 GB) / 10

As the 'Archived' logs will be zipped, the folder size will reduce by 90%, making the zipping ratio as 10:1.

**Total Disc Space** = Archive (1.28 GB) + 12.8 GB (Approx for 15 kb \* 10000 Users \* 90)

# File Server Auditing

Number of Users	No of Files	No of Days	Total Size
1	1	1	4 Kb
100	1	1	400 Kb
100	100	1	40000 Kb (40MB)
100	100	90	40000 * 90 = 3.5 GB
100	100	720 (2yrs)	40000 * 720 = 29 GB

**Disc Space** : Average Log Size \* No of Users \* No of Files \* No of Days

**Archive** : (Average Log Size \* No of Users \* No of Files \* No of Days) / 10

As the 'Archived' logs will be zipped, the folder size will reduce by 90%, making the zipping ratio as 10:1.

**Total Disc Space** = Archive + Disk Space

# Tips to keep disk space on check

## Disk Space Alerts

An administrator can configure a threshold value for free disc space. When the free space on the Server goes below the threshold, an alert will be sent to the configured email address.

- i. Check size of ev\_temp & temp folder & ensure it is empty or having very few files.
- ii. Check logs folder size is not more than 1 GB.

## Data Archiving

Data archiving in ADAudit Plus allows organizations to archive processed audit data to an archive folder by compressing the files to a zip format at the intervals mentioned, ensuring forensic and compliance requirements. The 'days' (image below) refers to the no of days the event log data is stored in the Active Database.

Categories	Days
<input type="checkbox"/> Local Logon-Logoff	<input type="text"/>
<input type="checkbox"/> Account Creation	<input type="text"/>
<input type="checkbox"/> User Modification	<input type="text"/>
<input type="checkbox"/> Computer Modification	<input type="text"/>
<input type="checkbox"/> Domain Policy Changes	<input type="text"/>
<input type="checkbox"/> OU Management	<input type="text"/>
<input type="checkbox"/> GPO Management	<input type="text"/>
<input checked="" type="checkbox"/> File Audit	60
<input checked="" type="checkbox"/> Server Audit Reports	30
<input type="checkbox"/> Network Policy Server	<input type="text"/>
<input type="checkbox"/> File Integrity	<input type="text"/>
<input type="checkbox"/> Advanced AD Auditing	<input type="text"/>
<input type="checkbox"/> DNS Server Auditing	<input type="text"/>
<input type="checkbox"/> PrinterAuditing	<input type="text"/>
<input checked="" type="checkbox"/> Account Logon	90
<input type="checkbox"/> Group Modification	<input type="text"/>

Archive Folder:

**Why Archive Events?**

1. Archive audit data to save on disk space and control database growth.
2. Historical reporting is possible from archived data.
3. Compliance and forensics require previous years audit data.

For Technical Assistance: Email : [ADAudit Plus Support](#) | DID : +1-408-916-9891 | Toll Free+1-888-720-9500

# Advantages of ADAudit Plus Auditing

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## Events Monitoring

Track every Active Directory & Servers modifications by Admin, Users, Helpdesk, HR etc.



## Archive Data

Archive AD event data for Security and Forensics.



## Dashboard View

Single view of all critical audit data for configured domains.



## 32 bit | 64 bit

Support for both 32 bit and 64 bit Windows platforms.



## Reports & Alerts

View pre-configured reports and set email alerting for changes to monitored folders / files.



## Export Reports & Meet Compliance

Meet PCI, SOX, GLBA, FISMA, HIPAA Compliance with audit reports in XLS, CSV, PDF and HTML formats.



## IT Auditors

Logins for IT Auditors with reports view only.



## Important Features

Here, only the important features are listed, for the many, many more features experience an [Online Demo of ADAudit Plus](#).

# ManageEngine ADAudit Plus

For more information drop a mail at  
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For more details logon to  
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