

GuardianOS 7

Technical Specifications

GuardianOS 7 is the Linux based operating system powering the SnapServer DX line of Network Attached Storage Servers. Optimized for block and file services and data protection, GuardianOS 7 includes powerful new features such as DynamicRAID and provisioning-free volume management for seamless expandability. Let the SnapServer GuardianOS keep your data protected across multi-platform environments and ensure that your data is available when you need it.

Operating System	Derived from Linux 2.6 Kernel
Journaling File System	Yes – Asynchronous
File System Type	XFS with Enhancements
RAID Level Support	Traditional RAID Levels 0, 1, 5, 6, and 10; Dynamic RAID with Single or Dual parity.
Network File Protocols	Microsoft Networks SMB (1.0)/CIFS (NTLM); CIFS via Mac OS X; NFS v2, v3, v4 (UDP/TCP); Apple AFP; FTP/FTPS; HTTP/HTTPS(1.1)
Network Clients Supported	Windows:2000/XP/2003/2003 R2/2008/2008 R2/Vista/7; Mac OS 9.x, Mac OS X 10.5/6/7; AFP v2/v3; UNIX: Solaris 9/10; UNIX/NFS Permission ACE Support HP-UX 11; AIX 5.3; Red Hat Linux 9.0; Red Hat Enterprise Linux (RHEL) 3.x/4.x; Red Hat Fedora Core 4.x/5.x/6.x; Novell SuSE Pro 9.x/10.x; Novell SuSE Linux Enterprise Server 8.x/9.x/10.x
Server Emulation Type	Windows 2000/2003/2008; AppleShare 6.0; Network File System (NFS) 2/3/4; Windows Print Server;IPP Print Server
Microsoft Active Directory Support	Operates in both native and mixed domains. Dynamic DNS name resolution.
Block Protocol Support	iSCSI Draft 20 compliant
iSCSI Software Initiators Supported	Microsoft Initiator v2.03/v2.04/v2.05/v2.06/v2.07/v2.08 (Windows 2003, 2003 R2, XP, Vista, 2008, 2008 R2, 7); SmallTree abcSAN iSCSI Initiator Version 1.0; CentOS v5.0 iSCSI Initiator; Solaris 10 (x86) update 3 & 4 iSCSI Initiator; NetWare v6.5 SP7 iSCSI Initiator; RHEL 5 / SLES 10 iSCSI Initiator; VMware ESX 3.01/3.02/3.5; Emboot, netBoot 1.2/2.0; Winboot 2.5
iSCSI Hardware Initiators Supported	Qlogic 4010, 4050, 4052, 4060, 4062 for Windows and Linux
Management Interface	Browser-based; Command Line Interface (CLI) via SSH; SnapServer Manager JAVA based interface.
UPS Support	APC UPS (USB & Network Management card)
Backup 3rd Party Agent Support	Symantec NetBackup 6.5; CA ARCserve 11.5 12.0; EMC NetWorker 7.3, 7.4; Symantec Backup Exec 10d, 11d, 12d, 12.5, 2010; BakBone NetVault: Backup 8.2 NOTE: For network backup support. File data only

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Local Tape Backup Support	Symantec Backup Exec 12.5 and 2010 Remote Media Agent for Linux Servers; BakBone NetVault: Backup SmartClient NOTE: Managed from separate backup application server
Replication Support	Snap EDR 7.2 or later
Anti-Virus Support	CA Antivirus software
Volume Based Quotas	User (global default and by specific user for Windows, UNIX/Linux, Mac, FTP/FTPS) & UNIX/Linux Groups
SNMP Support	V2, MIB II (RFC 1213); Host Resources MIB (RFC 1514)
UNIX NIS Security	Yes
Windows Security	NTLMv2; Full Windows ACL Support with Inheritance
Share/File Level Security	Both Share-level and File-level permission including UNIX file permissions and Windows ACLs
Microsoft Kerberos Support	Version 5
File/Directory Ownership	User, Group, Other
UNIX/NFS Permission ACE Support	Read (R), Write(W), Execute (X)
Windows/CIFS Permission ACE Support	All
Microsoft Inheritance Levels Supported	All
Default RAID Chunk Size	64KB
Supported SnapServer Systems	SnapServer DX1 and DX2

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