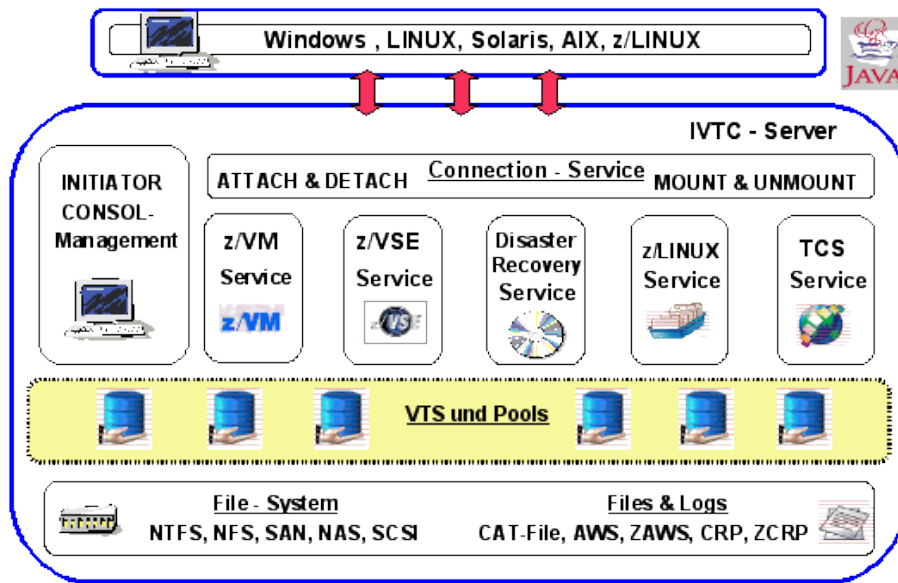


INFTEC Virtual Tape Controller



Operating Systems

Windows Server 200x,
LINUX , z/LINUX and SOLARIS

Connectivity

Ethernet 1GHz
SCSI and Fibre Channel
No channels necessary

Virtual System

Up to 255 virtual tape drives with emu-
lation IBM 3490.
Compression and encryption (AES
-256) of data.

Philosophy

The Inftec Virtual Tape Controller (IVTC) has been developed, to improve the performance and capacity, needed for backups today. IVTC emulates a real tape system with the physical drives by TCP/IP. IVTC is a JAVA based application and so it is possible to use it on different platforms.

Virtual Tape Technology

The IVTC initially creates a virtual volume in a buffer known as the Tape-Volume Cache (TVC), a RAID-5 or RAID-1 Disk-Array. Reading a tape, in most cases an access is possible directly by TVC. This technic helps to eliminate much of the physical delay connected with a real tape and to improve the performance of the tape processing.

Characteristics of IVTC

The **IVTC** may allocate up to 255 virtual drives per controller. The Disk-Array is able to be connected internal or external by Fibre-Channel (SAN too). Units connected by a SCSI-Interface like DLT, AIT, LTO, SAIT and SDLT can be used for internal backups of single volumes. The storage management supports controlling the virtual volume storage or delete the tape volume cache. The volume pooling supports the possibility to arrange selected, logical tapes and to put it into physical, separate POOLS. Physical archives systems like IBM LTO-Library may be connected by Tivoli Storage Manager.

Advantages of IVTC

Reduction of constantly costs like climate, current, service and storage space. Higher speed by elimination of physical tape positioning. Removal of unit bottlenecks by virtual tapes. Transparency to the host by unmodified interfaces.

Fast support of future technologies by isolation between host and tape system.

Tape Volume Cache

SAN, NAS or NFS
1 TB until Petabyte of own disk cache.

Real Tape and Library Support

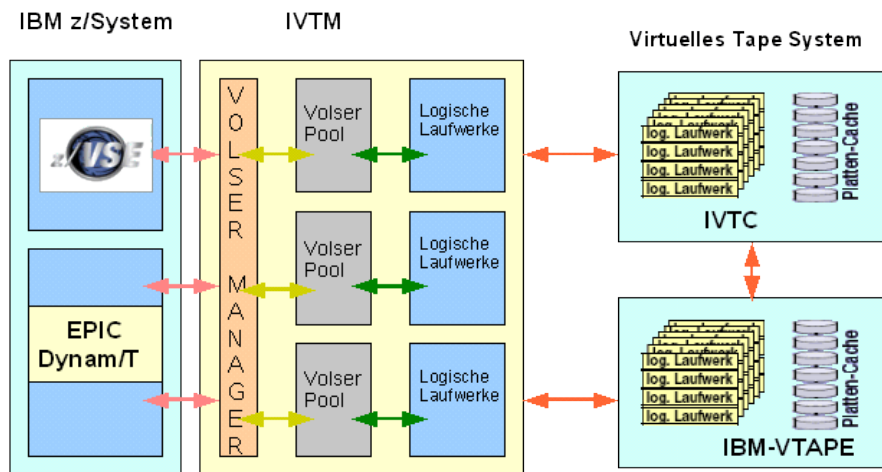
By SCSI and FC or with TIVOLI,
LEGATO and VERITAS.

Web Interface

By Web-Interface IVTC may be controlled and navigated.
The access to Web-Interface ensued by password.
There are two different alternatives of logon. As ADMIN changes may be done in progress. The user is only allowed to do supervise activities.



INFTEC Virtual Tape Management



ent POOLS. The navigation ensued by a profile in which all users and IVTC systems are defined.

Dynam/T (CA)

The tape management system Dynam/T (CA) is supported by **IVTM**. If Dynam/T needs a tape resource, the control will be committed to **IVTM**. On the basis of the transferred data, **IVTM** chooses the POOL and the group of drives. Is there a free drive in this group, the resource will be allocated on this drive. If the resource is not available, it will be waited for a free resource. The information will be routed to Dynam/T. The virtual tape system **IVTC** contains a own SCRATCH management. **IVTM** cares for the synchronisation with the Dynam/T catalogue .

Philosophy

IVTM (Inftec Virtual Tape Management) supports z/VM, z/VSE and Dynam/T (CA) by allocation of tape resources. It enables the access to the IVTC (Inftec Virtual Tape Controller). **IVTM** enables the automatic change to virtual tape systems without modification of applications and JOB's. All tape requests will be sent to controller by TCP/IP.

Technology

With **IVTM** single tape drives may be defined to a group (Virtual Tape Server). With this groups of drives, POOL definitions will be made. The single POOL consists of a Volser-Range and a link to a directory. With this technic, single tape data may be released and loaded on different directories.

z/VSE

IVTM is a expansion of z/VSE. All accesses to tape data will be handed by IVTM. IVTM makes sure, that the resources on the medium (virtual tape system) are provided. If no resources (drives) are available at the moment, IVTM waits for a free resource. After ending of processing, IVTM releases all resources. By a command processor, the operator may control and supervise the access to resources (drives, POOLS, groups). The single resources are protected by the LOCK file of z/VSE.

z/VM

With normal z/VM programs, minidisks or full disks may be saved on virtual tape server (IVTC) or be restored from server. The data will be compressed, sent to server or received by server. All tape files contain standard IBM Label and so they may be identified clearly. By special commands, the operator is able to navigate and control the access to resources (POOLS, drives and groups). Backups of single CMS machines may be put down in differ-

Operating-Systems

VSE/ESA 2.6 – z/VSE 4.x
VM/ESA – z/VM
TCP/IP

Drives

One group may contain up to 64 drives. The number of groups is without limit. The number of POOLS is without limit, too.

INFTEC GmbH
Siemensstr. 6
71101 Schönaich
Telefon: 07031/754 763
Fax: 07031/754 7650
e-Mail: inftec@inftec.de
[Http://www.inftec.de](http://www.inftec.de)