Introduction to the Solaris 10 & 11 OS Technologies (Professional Edition)

- **Course objectives** for this professional training course.

To teach you on the following list of topics along with hands on experience, to assist you on the expansion

of your technical skills set in the Solaris OS technologies:

- To introduce you to the complete overview of the Solaris 10 & 11 (i.e. Cloud OS) releases.
- To educate you on the everlasting footprint of Solaris OS release(s).
- To educate you on what is the relevance of Solaris 10 & 11 OS releases and some of its major feature
  set as listed below:
- To educate you on the functional overview of Solaris Containers.
- To educate you on the functional overview of Solaris Service Management Framework.
- To educate you on the functional overview of Solaris Predictive Self Healing.
- To educate you on the functional overview of Solaris DTrace.
- To educate you on the functional overview of Solaris ZFS.
- To educate you on the functional overview of Solaris NFS.

Following table provides you the list of OS features & their associated commercial applications which are very essential

for your technical skill set improvement and are being covered as part of this training course:

OS Feature set.	Commercial Application(s)
Solaris Containers/Zones	Server Consolidation, Cloud computing capability of type "Platform as a Service (PaaS)"
Predictive Self Healing + SMF	Automatic system fault diagnosis & corrective action to minimize system downtime.
DTrace (+ SMF + Predictive Self Healing)	system fault root cause analysis and resolution within an expected turnaround time on a Live system.

ZFS (+ SMF + Predictive Self Healing)	1) The cloud computing capability of type "Infrastructure as a Service (IaaS)" by means of:
	   o ZFS Storage Appliance box facility.
	   o empowering the local zone to completely manage the same delegated pool <zpool> including providing zpool usage based **IaaS**.
	2) Storage management optimization techniques such as RAID-Z3, Mirroring to create a ZFS pool.
	3) Effective Storage management operations such as Snapshots, Clone, Deduplication, Data Encryption to manage massive storage pool(s).
	4) Boosting ZFS IO performance by adding dedicated cache and/or log devices to the ZFS pool(s).

NFS (+ SMF + Predictive Self Healing + DTrace)	1) Providing NFS capability in terms of SMF based Service which is completely managed by Predictive Self Healing. This includes handling all types of nfs service related faults & their diagnosis based on the DTrace tool. 2) Performing NFS sharing of either file system or directory on a remote system by using ZFS way.