DIRECTORY SERVICES

TechBridge
Making the World Smarter
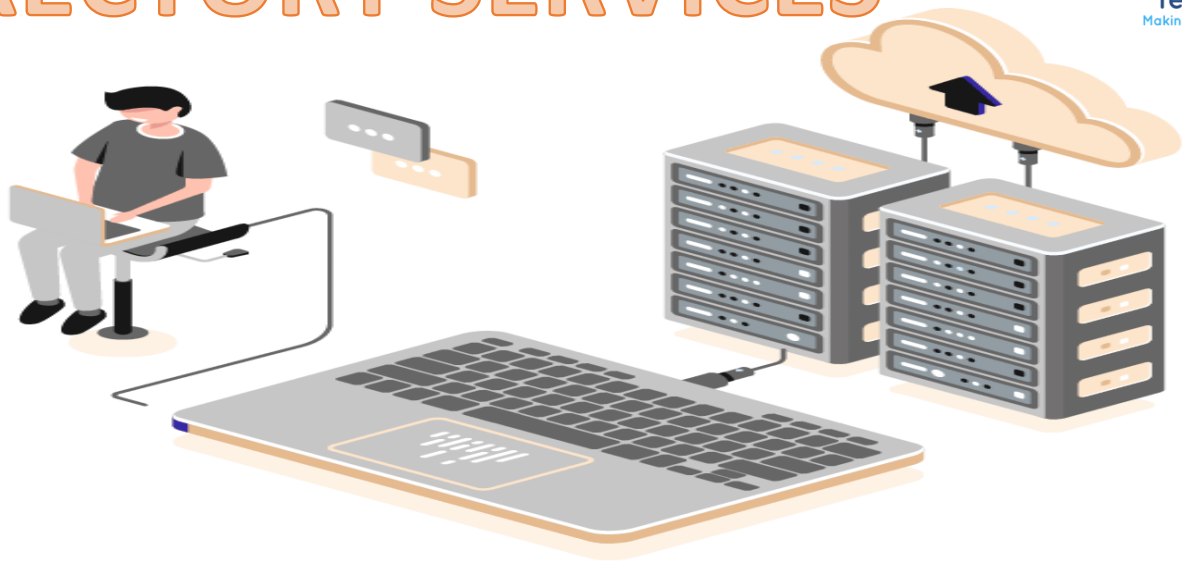

High-performance, highly available, highly reliable, highly scalable, and secure LDAP/X.500 Directory Server and LDAP Proxy

tbDirectoryService is the Lightweight Directory Access Protocol (**LDAP**) is a directory access protocol acting as a gateway for secure authentication and verification of users accessing organization application and database stored /kept in a directory.

Directory services are critical components of today's highly interconnected business environment, providing the foundation for identity and access management across the ever-widening boundaries of the enterprise. In the intranet environment, the directory service provides a global repository for shared information about employees, organizations, and resources such as applications, network devices, IoT devices, and other distributed services, accommodating hundreds of thousands of users. In the extranet environment, the directory service maintains profile information about customers, trading partners, and suppliers, holding millions of users. For both environments, the directory service must be able to manage user identities and control access to the information and services offered to its users, and it must provide fast, always available, authenticated access to the information and services, potentially to a huge number of users.

It meets these requirements, and more. The service provides a standards-compliant, high performance, highly available, highly reliable identity management platform with near-linear scalability. It can act as the identity store for employees, customers, trading partners, subscribers, and other e-business entities. It can also serve as a provisioning, access management and meta-directory repository, to provide a single point of access to the information within disparate and heterogeneous directories available in an enterprise network or cloud environment for user management and provisioning.

Standards and compatibility

tbDirectoryService implements the LDAPv3 and X.500 directory standards. It permits third-party LDAP-enabled applications to manage the directory schema over LDAP. It runs on the most popular operating systems and supports a wide variety of applications via the Lightweight Directory Access Protocol (LDAP).

The LDAP proxy is to provide a central access point for LDAP clients hiding the actual processing server knowledge from them as well as hiding server outages from clients and providing load balancing transparently to the clients.

General Features:-

- Based on Client Server model
- LDAPV3 compliant
- X.500 Naming Standards
- Supports both IPV4 & IPV6
- DNS & Scope based search
- Group based policy mechanism
- Information's can be consolidated for an entire organization into a central repository.
- LDAP supports Secure Sockets Layer (SSL) and Transport Layer Security (TLS).
- Supports Syncrepl between multiple servers for user profile (High - Availability).
- Search filters can be used to define criteria for identifying entries that contain certain kinds of information.
- Supports different types of the encryption for password like SSHA512, MD5, Cleartext.
- LDAP supports various application for the authentication like EMAIL, RADIUS SERVER, IDAM, DNS or any other application & services etc.

Key Features:-

- Massive Scalability
- Proven Solution
- Centralized Log management across DCDR
- User Friendly GUI
- Password Change Portal

Benefits:-

- Activate centralized user management on any Check Point Security Management server.
- Centralized user management throughout the enterprise.
- Eliminates risks associated with manually maintaining and synchronizing redundant data.
- View, modify and create users, groups via easy-to-use Smart Dashboard GUI.

Security:-

- Strong Authentication via SASL
- Integrity and Confidentiality Protection via TLS (SSL)
- Internationalization through the use of Unicode
- Referrals and Continuations
- Schema Discovery
- Extensibility (controls, extended operations, and more
- Kerberos
- PKI

User Management:-

- Multiple account types
- Role based Access Control
- Use Groups

Directory Services Supports:-

- 500+ Users
- 2000+ Devices
- HA
- C API

Deployment:-

- Flexible Deployment
- Standalone Deployment
- HA supported
- DC-DR supported

High performance

tbDirectoryService is based on the innovative DBAM database kernel (Directory Basic Access Method) that is optimized for directory access, allowing sub-second response times and high throughput rates for parallel queries. A high performance database cache buffering portions of the directory data in main memory.
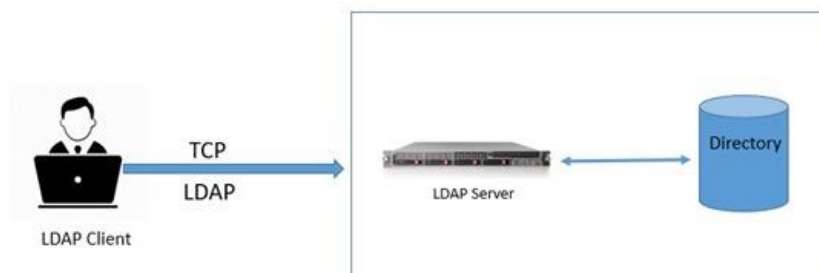
High availability and reliability

To meet reliability requirements for the directory service, it supports floating master replication for high availability configurations (a software solution instead of adding hardware clusters) and failover. For backup and recovery, It supports full and differential saving in parallel with directory update operations. Transaction processing in the database provides guaranteed recovery after crashes without data loss.

Security

It supports SSL/TLS for LDAP server and client authentication, X.500 DAP authentication, authorized user access control, encrypted communication, and server-side policies for local security management. It also permits the creation and enforcement of password policies to control how passwords are used and administered in an enterprise network. Policies for password complexity, aging, and reuse after expiration are supported. High performance audit is provided for traffic analysis and accounting.

X.500 information model

tbDirectoryService conforms to the information model of the 1993 X.500 standard and supports, among others:

- Collective attributes - identical attributes of several directory entries which are accessed like normal attributes, but which are stored once only and managed at a central location
- Access control rules for parts of a directory tree υ Attribute subtyping; the option of accessing specific attributes by referencing generic attributes (e.g., PrivateTelephoneNumber as a subtype of TelephoneNumber)
- Operational attributes; attributes used for internal purposes or which, like the timestamp, are generated by the directory itself.

Minimum System Requirements:

- Hardware : 4 Core
- RAM : 8GB
- Hard Disk: 200 Gb
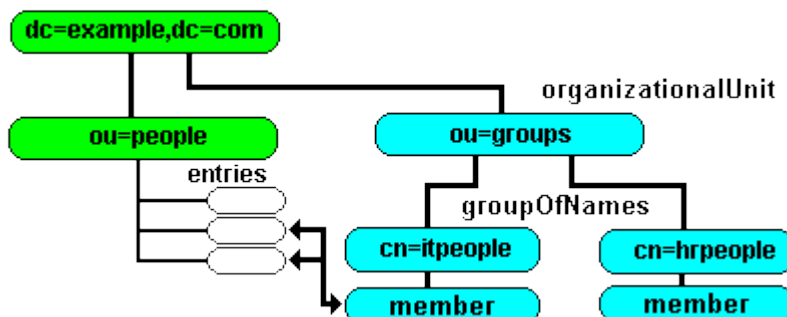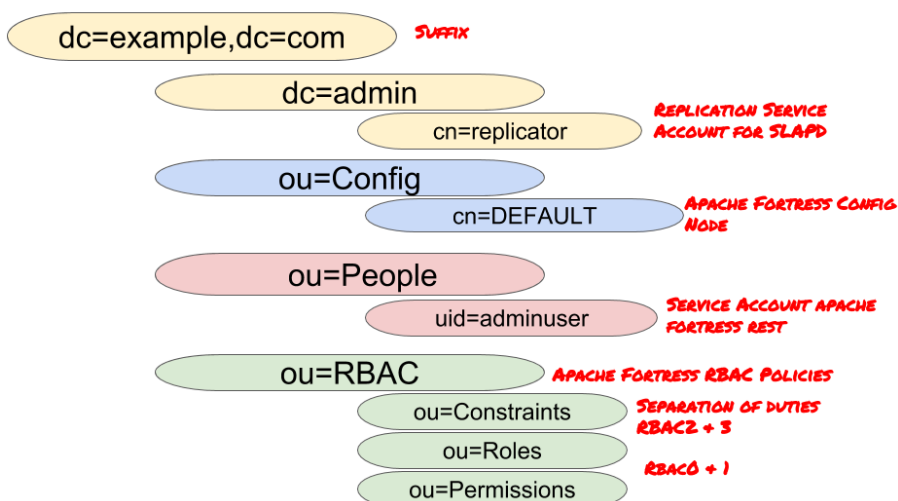
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Certificates:-

ISO 9001	ISO 27001	ISO 20000	CMMi L3

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