

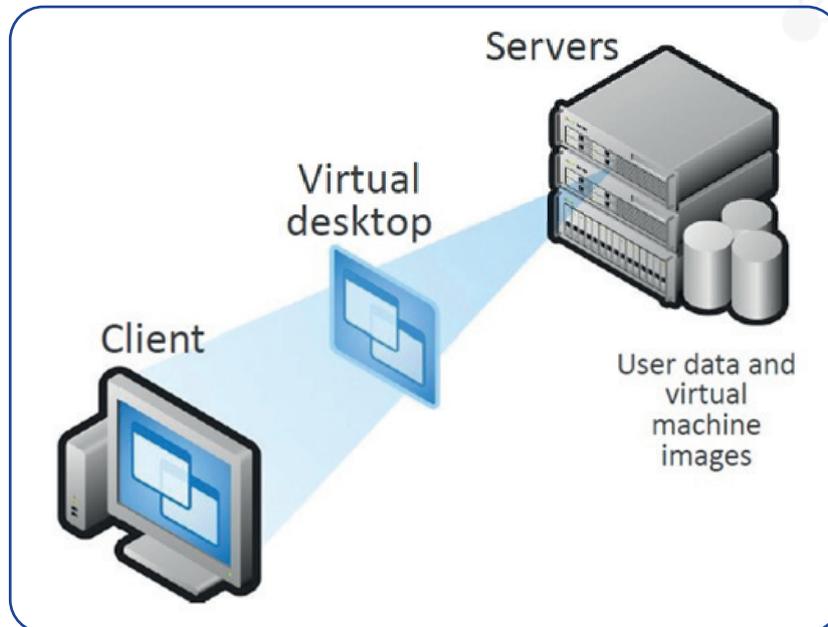
INTERACT
Technology Solutions

Services Catalogue
IT Infrastructure & Data Center



IT Infrastructure & Data Center

Provides a comprehensive desktop environment management system where all the components of the desktop are virtualized.



Standard Features:

- Concurrent User (CCU)
- Virtual Desktop Infrastructure
- Virtual Desktops
- Cloud Infrastructure
- Packaged Applications

Optional Features:

- Design and workflow automation
- Operations Dashboard
- Health Monitoring
- Performance Analytics
- Capacity Management – Planning & Optimization

- Personalization with User Environment Management
- Image Management for Physical Desktop
- Virtual Storage
- Application Catalog
- Hosted Applications (RDSH)
- Real-Time Application Delivery
- Packaged Applications

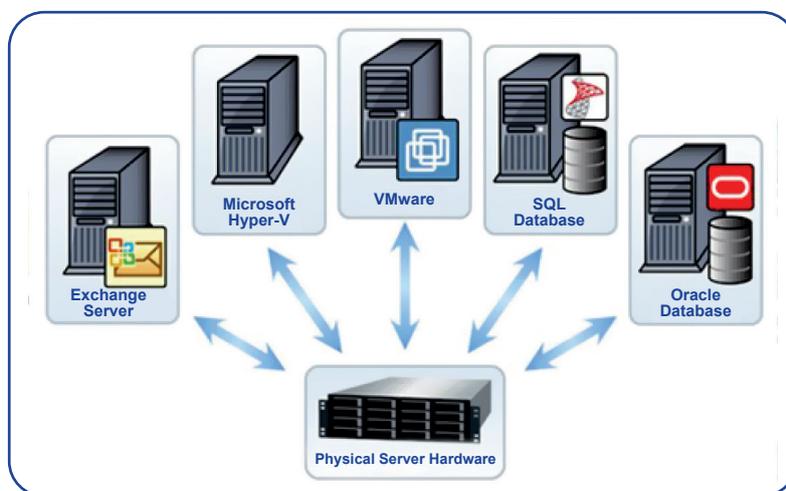
Prerequisite(s):

- Physical Servers, Storage and LAN Connection

Masking of server resources, including the number and identity of individual physical servers, processors, and operating systems, from server users. The server administrator uses a software application to divide one physical server into multiple isolated virtual environments.

Using this technology allows:

- **Reducing the data center footprint**
- **Easily creates QA/lab environments**
- **Increase uptime**
- **Provide high availability**



Standard Features:

- Server consolidation and business continuity
- VMotion
- Storage VMotion
- High Availability
- Data Protection
- Fault Tolerance
- VShield Endpoint
- VSphere Replication
- Hot Add
- Virtual Volumes
- Storage Policy-Based Management
- Storage DRS
- Storage I/O Control
- Network I/O Control
- Single Root I/O Virtualization (SR-IOV) Support
- Flash Read Cache
- NVIDIA GRID vGPU
- Content Library
- Storage APIs for Array Integration, Multi pathing
- Distributed Switch
- Host Profiles
- Auto Deploy

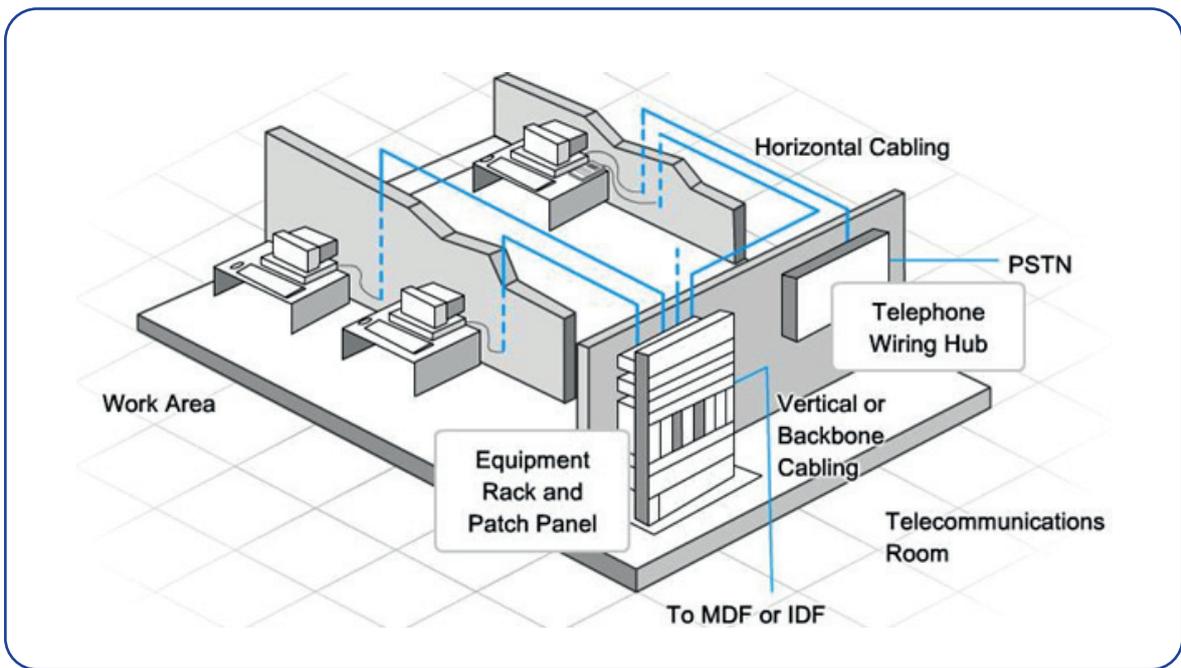
Optional Features:

- Big Data Extensions
- Distributed Resources Scheduler (DRS)
- Distributed Power Management (DPM)

Prerequisite(s):

- Physical Servers, Storage and LAN Connection

Passive cabling infrastructure is structured cabling design and installation governed by a set of standards that specify wiring data centers, offices and apartment buildings for data or voice communications using various types of cables, most commonly category 5e (CAT-5e), category 6 (CAT-6), and fiber optics cabling plus modular connectors



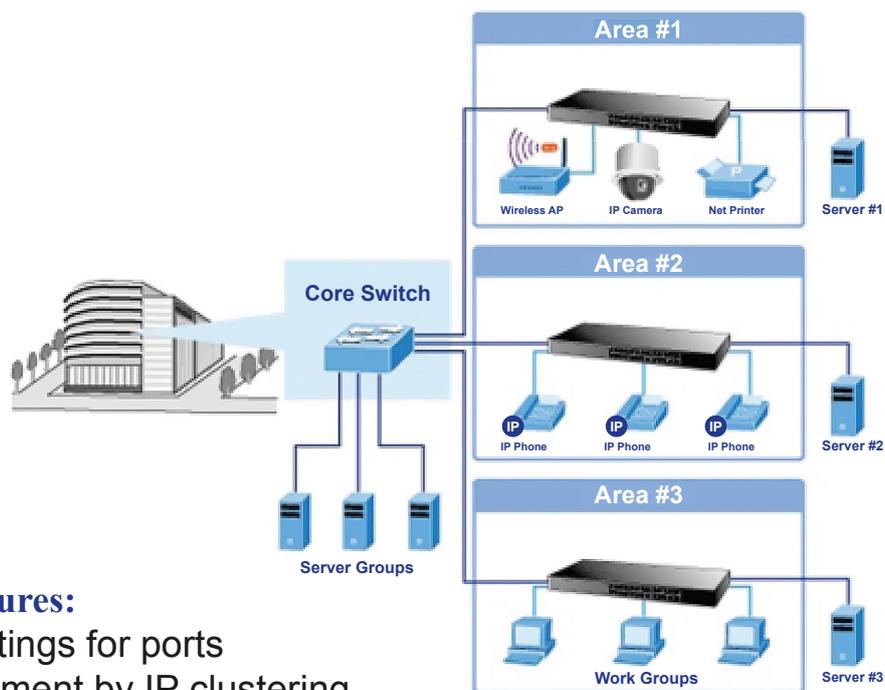
Standard Features:

- Pulling passive infrastructure
- Data center preparation
- Pulling fiber cable
- Fire alarm and fire fighting
- Access control system
- CCTV & IP CAM solution

Prerequisite(s):

- Civil work already done such as construction & Electricity

Packet switching on Local Area Networks used to connect computers, printers and servers within a building or campus. A switch serves as a controller, enables networked devices talking to each other efficiently. Through information sharing and resource allocation, switches save businesses money and increase employee productivity.



Standard Features:

- Priority settings for ports
- IP management by IP clustering
- MAC filtering and other types of “port security” features which prevent MAC flooding
- Use of Spanning Tree Protocol (STP) and Shortest Path Bridging (SPB) technologies
- Simple Network Management Protocol (SNMP) monitoring of device and link health
- Port mirroring (also known as: port monitoring, spanning port, SPAN port, roving analysis port or link mode port)
- Link aggregation (also known as bonding, trunking or teaming) allows the use of multiple ports for the same connection achieving higher data transfer rates

- VLAN settings. Creating VLANs can serve security and performance goals by reducing the size of the broadcast domain
- 802.1X network access control
- IGMP snooping

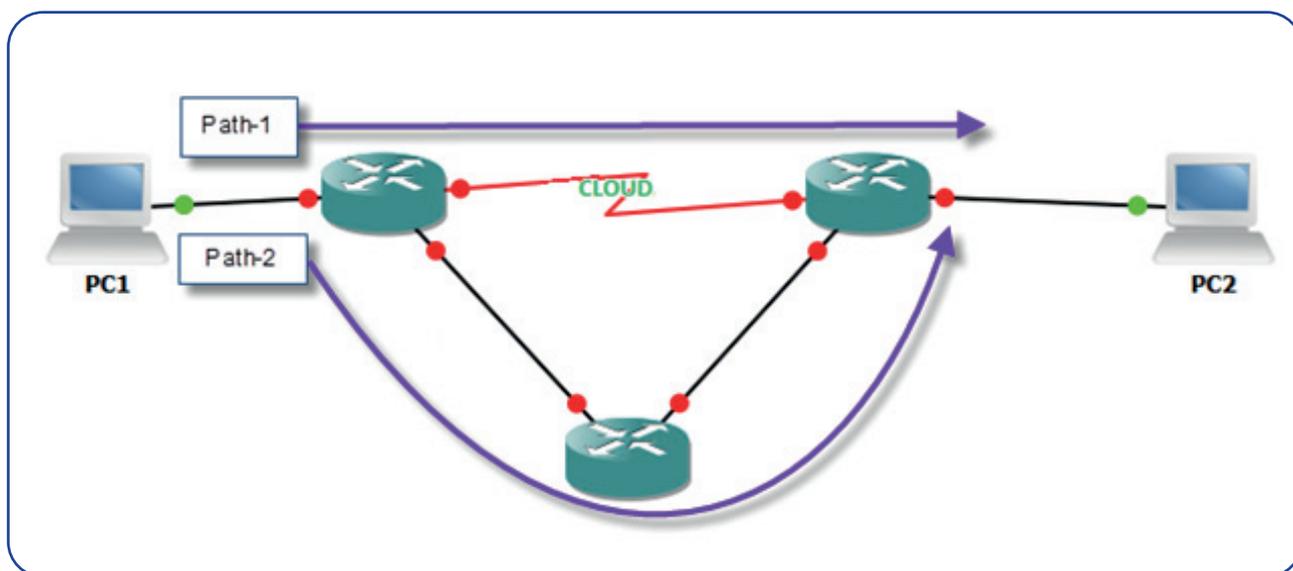
Optional Features:

- Layer 3 functionality
- Layer 3 QOS
- Layer 4 QOS
- Layer 2-4 Security

Prerequisite(s):

- Passive infrastructure are implemented. Passive infrastructure means the cabling inside the building to connect between users and its edge switches

Packet Routing based on routing protocols, router acts as a dispatcher, choosing the best path for information to travel so it's received quickly as router connects between networks.



Standard Features:

- Routing Protocols
- Security VPN
- Call Processing act as Call Processor server
- MPLS switching technology
- Traffic QOS
- Variety of WAN connection options

Optional Features:

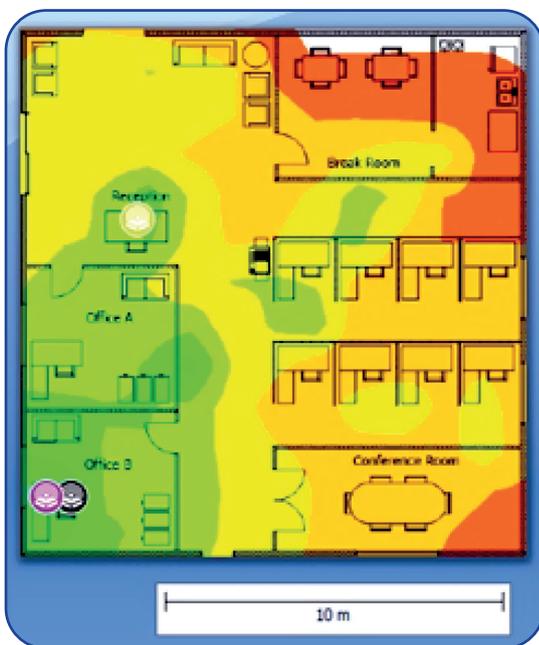
- Call processing (this is related VoIP solutions not simple routing protocols) ISR Router can act as a call manager for small business deployment, WAN Optimization and Voice mail

Prerequisite(s):

- LAN is implemented
- WAN Connectivity

Mobile LAN Network that links two or more devices using a wireless distribution method.
Advantages:

1. **Reduced network cost of ownership.**
2. **No need to lay hundreds of meters of hub-to-workstation wiring.**
3. **No need to pull cables through walls or ceilings.**
4. **New users can be added instantly with no extra cabling required.**
5. **Fully scalable and adaptable to meet changing needs.**
6. **Reliable and secure.**
7. **Lower overall installation expenses and lifecycle costs**



Standard Features:

- 802.11 a/b/g/n/ac
- Data rate up to 1.3 Gbps
- Dynamic frequency selection (DFS)
- Controller based or standalone deployment option
- Wireless mesh

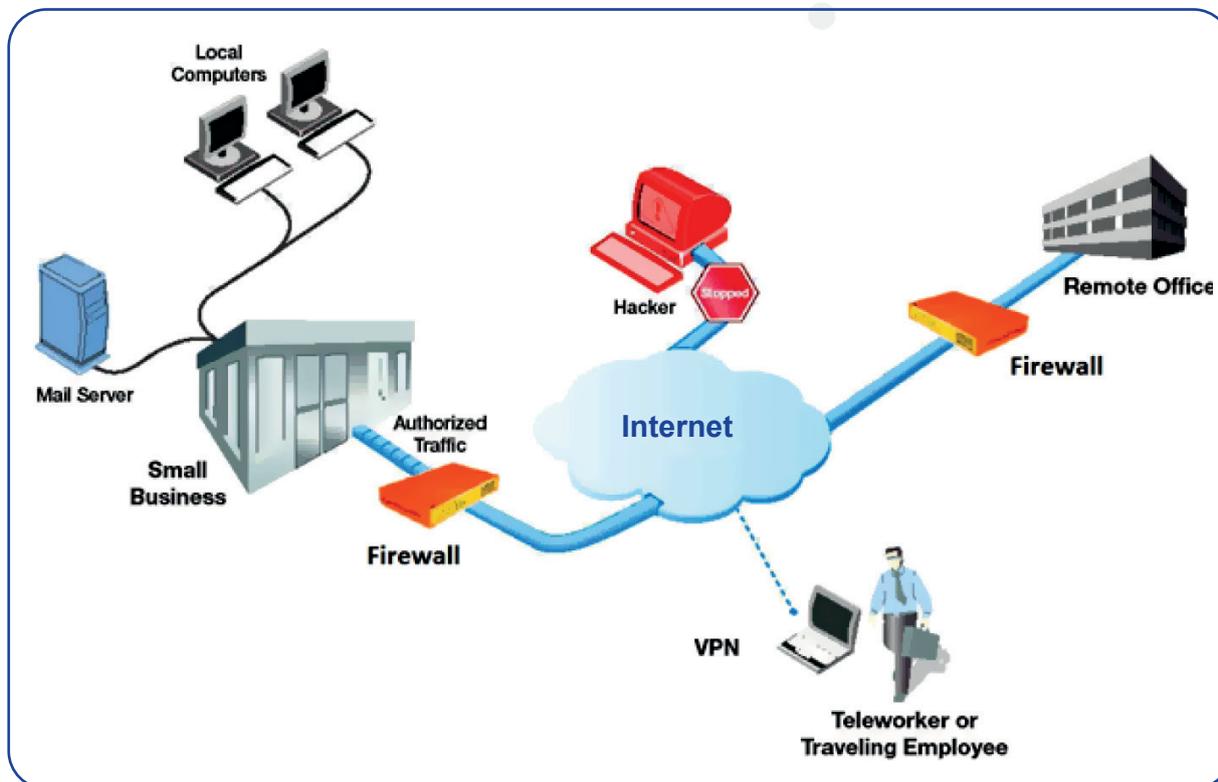
Optional Features:

- Wireless encryption
- Wireless security

Prerequisite(s):

- Wireless Site survey

Secure the network against attacks



Standard Features:

- Authentication, authorization, and accounting (AAA)
- Standard IP Security (IPSec), Group Encrypted Transport VPN, Dynamic Multipoint VPN (DMVPN)
- SSL VPN
- Web filtering
- Application control
- IPS

Optional Features:

- Wan optimization
- Wireless controller

Prerequisite(s):

- Sizing design depending on organization
- Number of users and internet speed
- Security policy of organization

Make it easy for everyone in your enterprise to meet, share ideas and information, and stay connected through video services



Standard Features:

- Voice Over IP Phone System
- Unity Voice mail
- IM & Presence
- Video Conference
- Contact Center
- Recording System
- Billing System

Optional Features:

- Paging system
- Webex

Prerequisite(s):

- Sizing design depending on organization
- No. of users and internet speed

Computer data storage software to manage policy-based provisioning and management of data storage independent of hardware



Standard Features:

- Storage Management Automation
- Automated Converged Infrastructure Provisioning
- Storage As-A-Service
- Centralized Management view
- Multivendor Support

Prerequisite(s):

- Physical or Virtual server
- Storage
- LAN connection

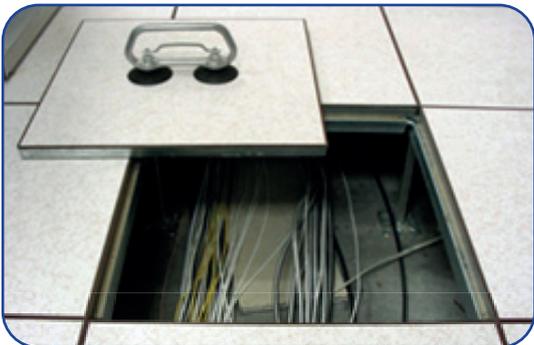
The need of a complete optimal turnkey site preparation solution is required in order to give Datacenters full capability to operate successfully and maximize efficiency. We offer the design, supply and implementation for sites, as well as after sales service and maintenance that is critical for such data centers. The systems necessary towards the completion of this environment can be classified in several main categories; electrical systems, mechanical systems, safety and security systems, raised floor system and structured cabling.

Standard Features:

- Physical space
- Raised flooring
- In-room electrical
- Standby power
- Data cabling
- Cooling
- Fire suppression

Optional Features:

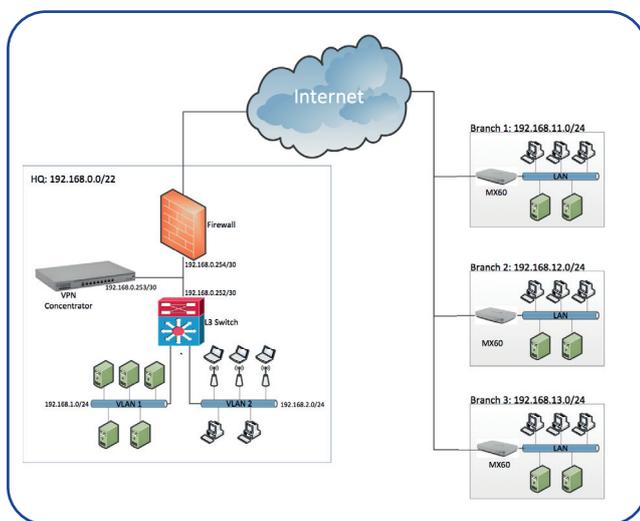
- Humidity and Leak detection devices
- Seismic mitigation
- Physical security controls such as card readers and CCTV



The biggest challenge is gaining visibility into the data centers. Without that visibility, data center admins have no way to understand their current operating capacity and no way to plan for future expansion.

The complete documented site survey as a centralized source of information is necessary to have this visibility and a clear understanding of the devices and their exact location-including rack and floor details-in the data center.

Documentation also helps data center admins know how much space is utilized and plan accordingly for future changes and/or expansion.



Standard Features:

- Views of data center floors with racks and devices
- Clear information on the available space at rack and floor levels
- A search option to locate devices
- Realistic views of data center floors on NOC screens
- Integration with IT management solutions for real-time monitoring
- Discovery and import options to add devices
- Color-coded, live status views of devices on racks

Optional Features:

- 3D visual modeling of data centers combined with real-time monitoring
- Asset Management System

Prerequisite(s):

- SAN/ NAS Storage to store the centralized documentation

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