

# PC and the Cloud Ecosystem

CHOOSE THE RIGHT PC AND THE CLOUD ECOSYSTEM FOR YOUR BUSINESS

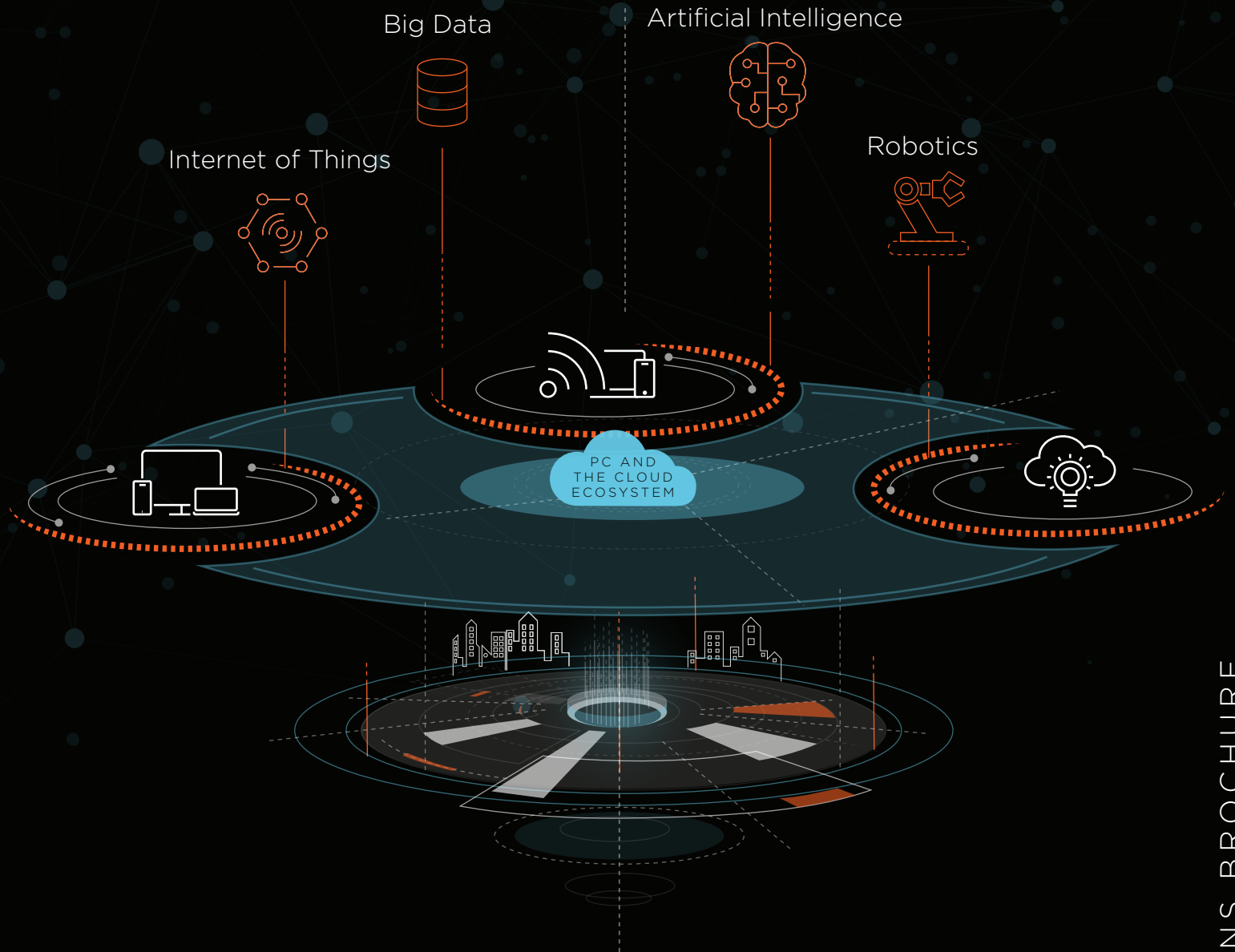
Lenovo™

Big Data

Artificial Intelligence

Internet of Things

Robotics



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[www.lenovo.com](http://www.lenovo.com)

SOLUTIONS BROCHURE

# TABLE OF CONTENT

30

Effective Device Management and Security

14

Effective Endpoint Devices

08

Right Cloud Solution

06

The Three Aspects of a Good PC and Cloud Ecosystem

04

Why Choose Lenovo for Your Cloud Solutions

02

Build a Future-ready Business with Cloud



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# Build a Future-ready Business with Cloud

As small and medium businesses gear up for the future, their technological capabilities also need to keep pace with their growth. And Cloud adoption will help them do just that. Cloud lays down the foundation for accelerated digital transformation with technologies like:



Internet of Things



Big Data



Artificial Intelligence



Robotics

Not just that, Cloud also enables seamless collaboration, easier IT management, automation of tasks without extra expenses, and provides the flexibility for a smoother work experience.

To reap benefits from Cloud, businesses need to deploy the right PC and Cloud Ecosystem. And Lenovo solutions gives businesses exactly what they need.



# Why Choose Lenovo for Your Cloud Solutions

## The World's Only Phone + PC + Datacentre Company

Lenovo is the world's only company with expertise in PCs, smartphones, and enterprise equipment; our know-how can help to empower your business.



In Server Reliability\*  
(Source: per ITIC Server Reliability 2016-2017)



Awards at the CES 2018



Awards at Design Awards 2018



In Business Laptop Reliability\*  
(Source: per TBR PC Reliability study 2011)

*Lenovo has created a viable modular system that will fit IT hearts with joy - and one of the most nicest, sanest, all-in-ones on the market.*

- PCWorld



**ThinkPad X1 Carbon**  
Best Business Laptop by Laptop Mag and Techaeris



**ThinkPad X1 Yoga**  
Best Laptop by Slashgear



**ThinkPad X1 Tablet**  
Best of CES Excellence Awards by Notebooks.com

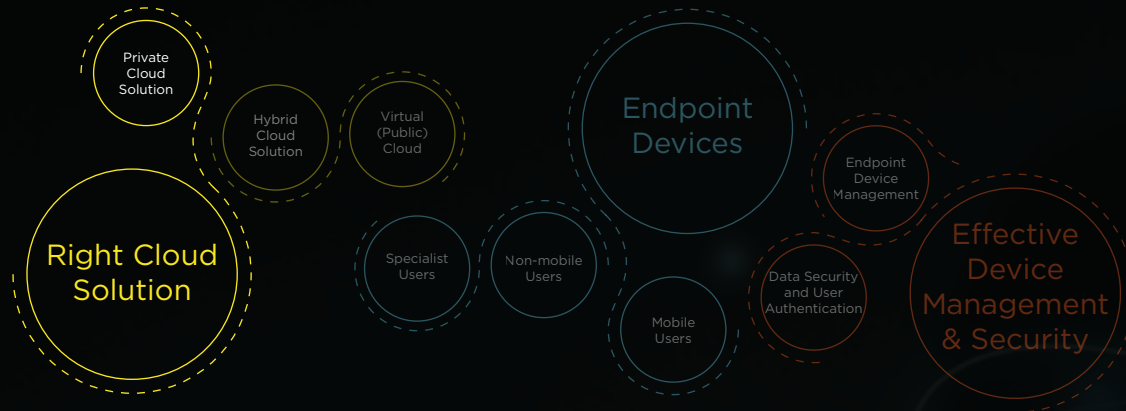


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# The Three Aspects of a Good PC and the Cloud Ecosystem



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## Right Cloud Solutions

Procure and deploy from private, hybrid, or virtual Cloud solution that suit your business.

## Private Cloud Solution

For strict security, latency, regulatory, and data privacy levels.

### Best-in-class Infrastructure Hardware to Build a Robust Cloud Platform

#### ThinkSystem SR Series

Engineered to deliver high performance, the ThinkSystem SR 630 provides a solid foundation for:

- Transforming physical resources into services, using validated designs for hybrid Cloud
- Performing analytics on streaming data, using validated designs for Big Data
- Increasing productivity of virtualized transactional systems, using validated designs for OLTP databases



ThinkSystem SR 630

#### ThinkSystem ST Series

Optimized for office environments, with physical security and whisper-quiet operation, the Lenovo ThinkSystem ST 550 is:

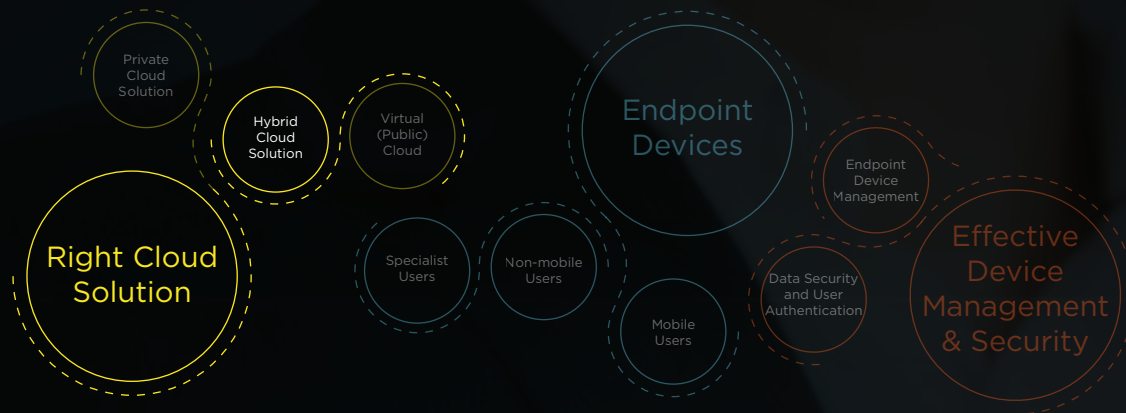
- Powered by **Intel® Xeon® Processor**
- Scalable 4U tower server
- Ideal for email/file/print and web serving, IT infrastructure, virtualization, VDI, and private Cloud



ThinkSystem ST 550



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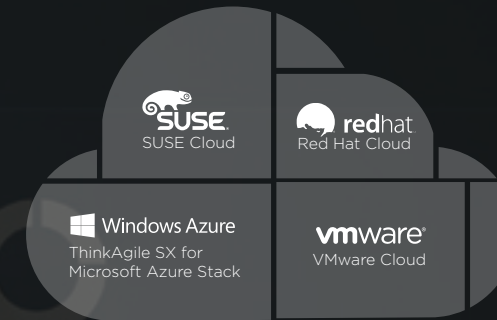
## Hybrid Cloud Solutions

For greater operational flexibility and scalability.

## Virtual (Public) Cloud

For data storage, archival, application hosting, on demand hosting for microsite and applications.

## Validated Reference Architectures: For Multiple Ecosystems



Lenovo Cloud solutions can improve resource utilization to help you make your business processes more efficient. With validated reference architectures for most of the core platforms.

## Lenovo ThinkAgile Integrated Solutions

Built with powerful and highly reliable Lenovo servers — #1 in reliability, these appliances include industry-leading capabilities from partners like Nutanix, VMware, Cloudian, DataCore, and Nexenta.

### ThinkAgile SX for Microsoft Azure Stack

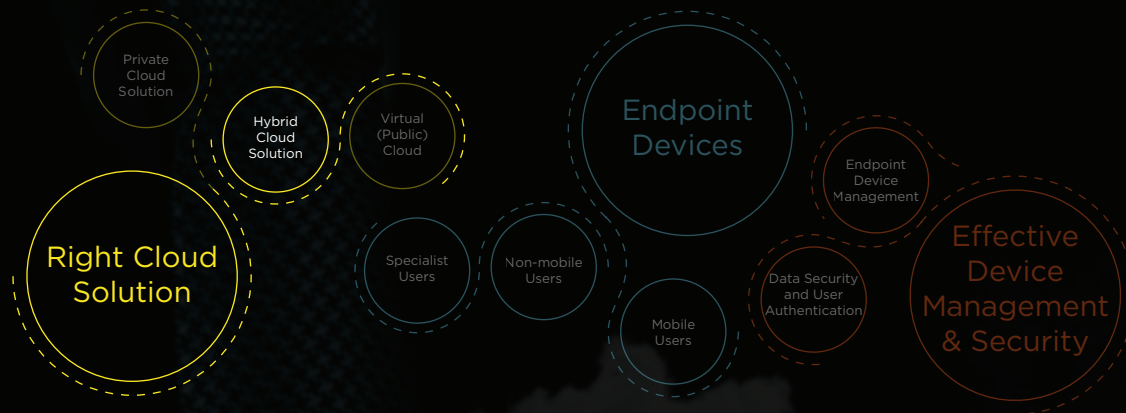
Lenovo ThinkAgile SX for Microsoft Azure Stack is a turnkey, rackscale solution optimized with a resilient, high-performing, and secure software-defined infrastructure.

It's the perfect platform to:

- Deliver Azure Cloud services from the security of your own data center
- Enable rapid development and iteration of applications with on-premises deployment tools to help transform your organization
- Unify application development across your entire hybrid Cloud environment
- Easily move applications and data across private and public Cloud



ThinkAgile SXMS Azure Stack



### Simple to Manage, Easy to Deploy: Lenovo Cloud Networking Operating System

The Lenovo Cloud Network Operating System provides a simple, open, and programmable network infrastructure designed to scale for your business needs.

### Enabling Maximum Reliability and Availability with Lenovo XClarity™

Lenovo XClarity Administrator is a centralized resource management solution that is aimed at reducing complexity, speeding response, and enhancing the availability of Lenovo server systems and solutions. Lenovo XClarity includes features like firmware management, configuration management, OS provisioning, and hardware monitoring and management.

ThinkSystem SR 530



### Business Processes Made Easy: Lenovo Deployment Services

Simplify installation of new technologies, accelerate time to productivity, and free your IT staff to concentrate on business priorities.

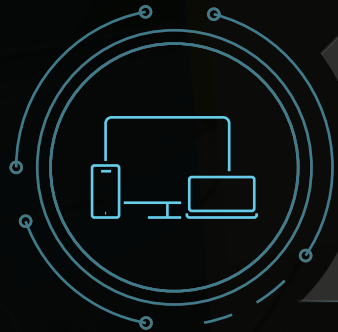
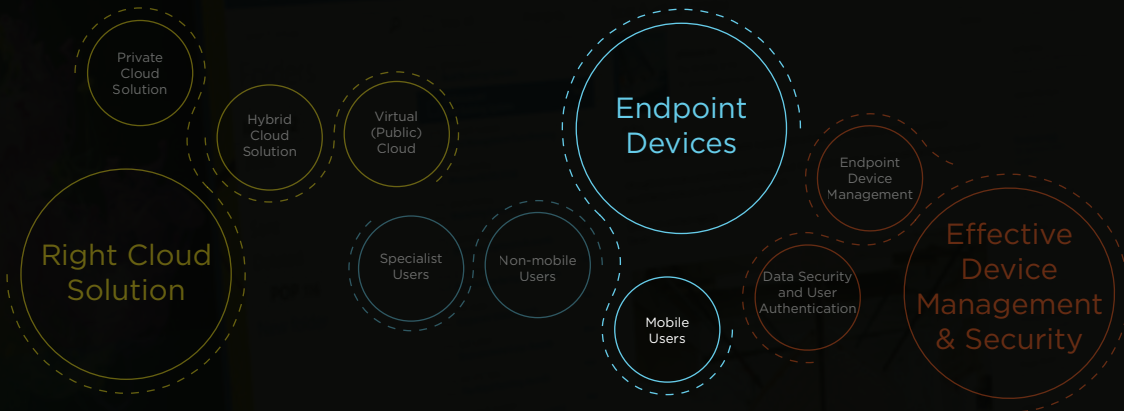
### Enable IT to Focus on Business Priorities: Lenovo Managed Services

With Lenovo Managed Services businesses can rely on experts for continuous system monitoring and problem resolution for both hardware and software.



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## Effective Endpoint Devices

Choose endpoint devices that suit different users and foster work flexibility in the Cloud; with the right security and connectivity features.

### Mobile Users

#### ThinkPad X1 Series

The ThinkPad X1 Series comes with premium integrated security features powered by **Intel® Authenticate** that keep your data safe in the Cloud everywhere you go. Windows 10 Pro adds an additional layer of security from advanced malware and hacking threats.

- Facial recognition with Windows Hello and ThinkPad Glance\*  
\*Only on devices with IR camera
- Go from 0% to 80% in 60 minutes with the RapidCharge Technology
- Maximum uptime with Intelligent sensing and cooling technology
- Uninterrupted Connectivity with Gold Plated WiFi antennas



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ThinkPad X1 Yoga

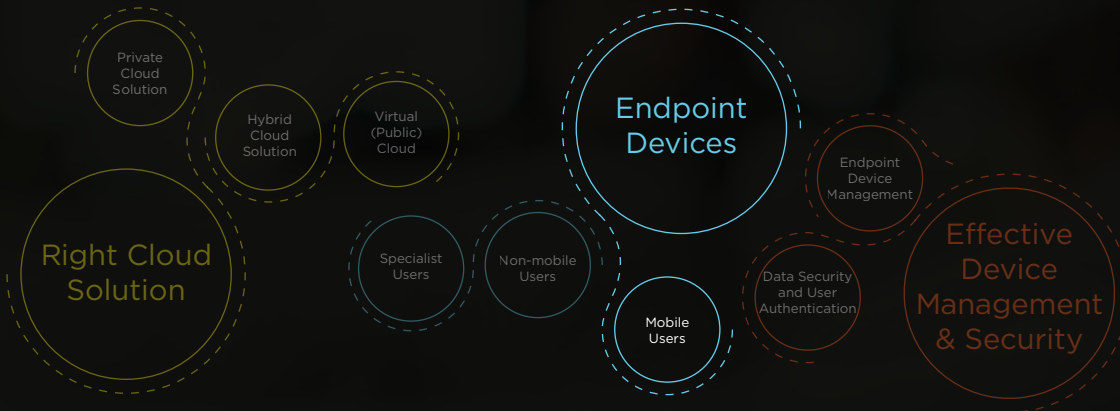


ThinkPad X1 Carbon



ThinkPad X1 Tablet





## Mobile Users

### Lenovo V Series

The Lenovo V series laptops are optimized for security, reliability, and flexibility. These devices come with Cloud powered and data-driven Windows 10 Pro that help you stay up to date\* with the latest security and control from Microsoft — built-in.

\*for the supported lifetime of the device.

- Powerful performance with **8<sup>th</sup> Generation Intel® Core™ vPro™ Processors**
- Connect to multiple monitors and multitask with USB-C ports
- Skype certified dual array mic and speakers allow crystal clear audio conferencing\*.  
\*Available on V330
- Data security with optional TPM chip, touch fingerprint reader, and Windows 10 Pro with Bitlocker

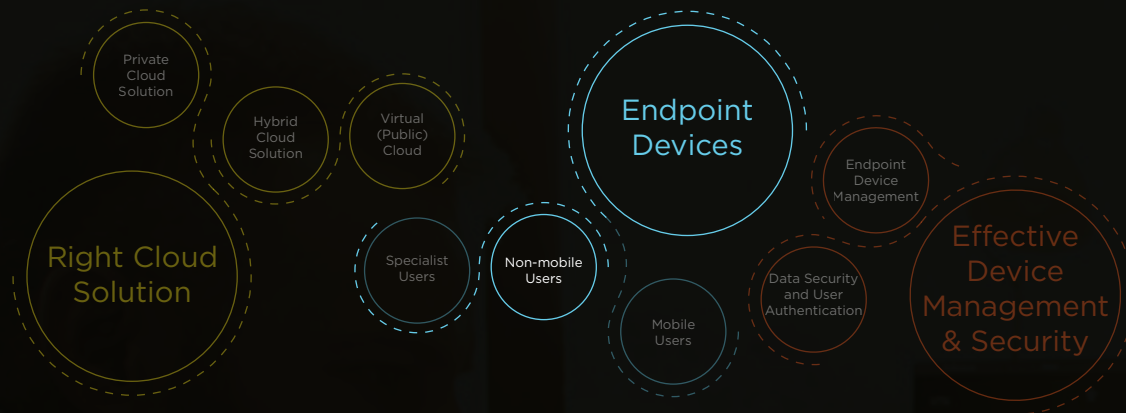


Lenovo V730



Lenovo V330





## Non-mobile Users

### ThinkCentre Series

ThinkCentre desktops with Windows 10 Pro dramatically improve your IT management experience and simplify deployment, helping reduce user interruptions and support costs. Powered by **8<sup>th</sup> Generation Intel® Core™ vPro™ Processors** and DDR4 memory, the ThinkCentre Small Form Factor desktops boost efficiency, productivity, and grow in line with your business. Likewise, the ThinkCentre Tiny packs a punch while being compact — giving you the same performance as a regular desktop.

- Intel® Optane™ technology ready for an additional performance boost
- BIOS-based USB Smart Protection to allow secure data transfer through ports
- Customizable desktop components such as CPU, memory, HDD, and graphics card (only for SFF)
- Tiny-in-one Compatibility, create your own all-in-one PC



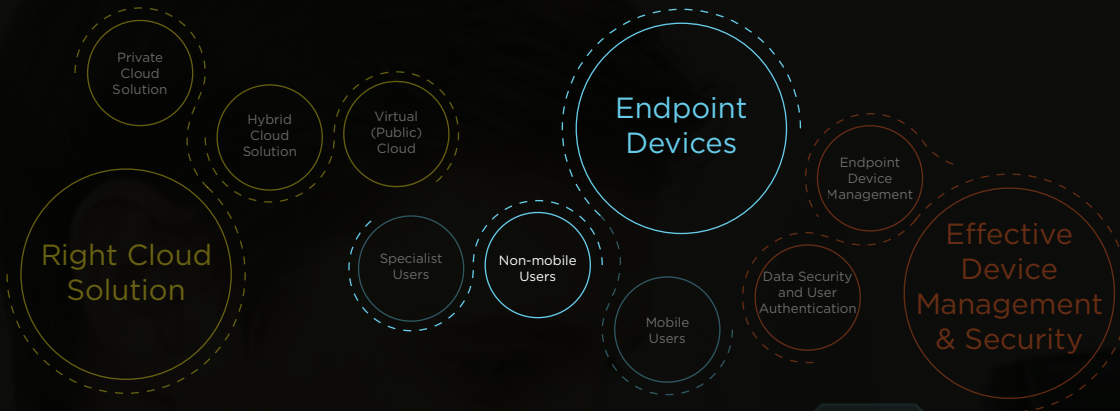
ThinkCentre M910 Tiny



ThinkCentre M910 SFF



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## Non-mobile Users

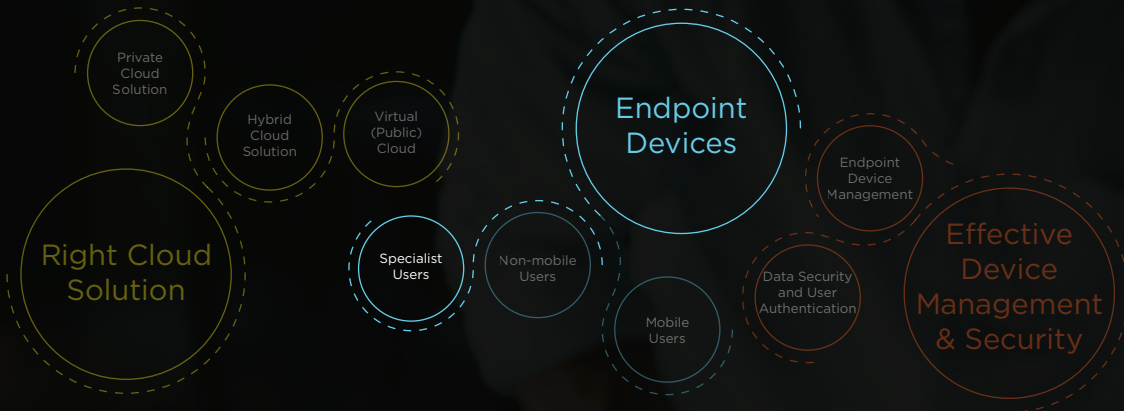
### ThinkCentre Thin Client

Lower your IT footprint by deploying Thin Clients in a virtualized environment for jobs that deal with highly sensitive data and repetitive tasks.

- Compact and Versatile, deployable anywhere
- Certified to run industry-leading desktop and app virtualization software
- Trusted Platform Module for data encryption
- Lenovo Thin Client Manager to remotely manage Thin Clients



ThinkCentre M700 Thin Client



## Specialist Users

### ThinkPad T Series

Designed for serious business, the ThinkPad T Series comes with **8th Generation Intel® core™ vPro™ Processors** and DDR4 memory for powerful performance. Windows Information Protection\* (WIP) helps prevent accidental data leaks by restricting user and app access to data based on policies you define. Your business data is protected no matter where it lives on your devices — without affecting your user experience.

- Transfer data up to 8x times faster with **Intel® Thunderbolt™ 3 technology**
- Built-in global LTE-A keeps you connected always (not available in all countries)
- Change batteries without shutting down device with Power Bridge technology
- Windows Hello and ThinkPad Glance\* for Privacy  
\*(only for models with IR camera)

\* WIP requires either Mobile Device Management (MDM) or System Center Configuration Manager to manage settings. These products sold separately. Active Directory makes management easier, but is not required.



ThinkPad T580



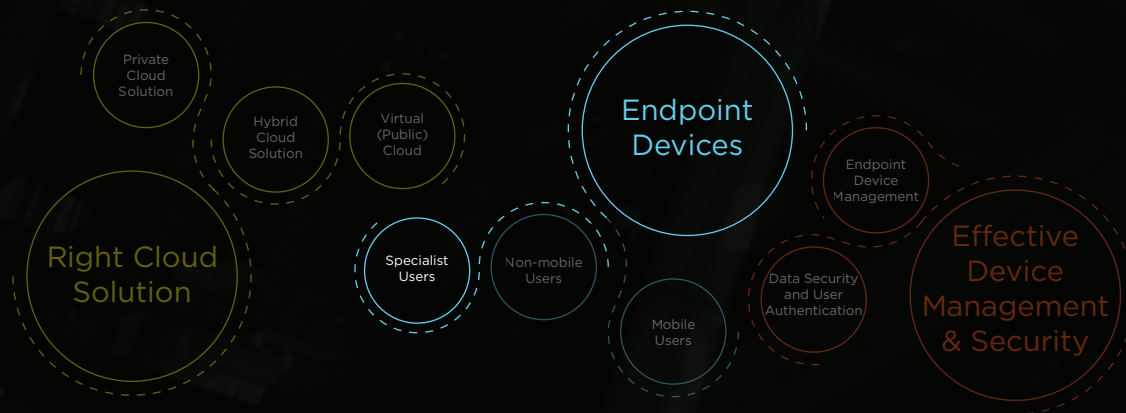
ThinkPad T480



ThinkPad T480s



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## Specialist Users

### ThinkPad P Series

The portability of ThinkPad combined with the power of a workstation brings the ThinkPad P Series mobile workstations. These mobile workstations redefine PC performance with powerful **Intel® Xeon™ Processors\***, ISV-certified applications and NVIDIA QUADRO graphics. With Windows 10 Pro for Workstations, you can power through advanced, compute-intensive workloads with server-grade data protection and performance.

\*only in P70 and P71

- Transfer data up to 8x times faster with **Intel® Thunderbolt™ technology**
- Change batteries without shutting down device with Power Bridge technology
- Optional ThinkShutter for device security  
\*available in ThinkPad P52s
- Maximum uptime and reliability with dual cooling solution

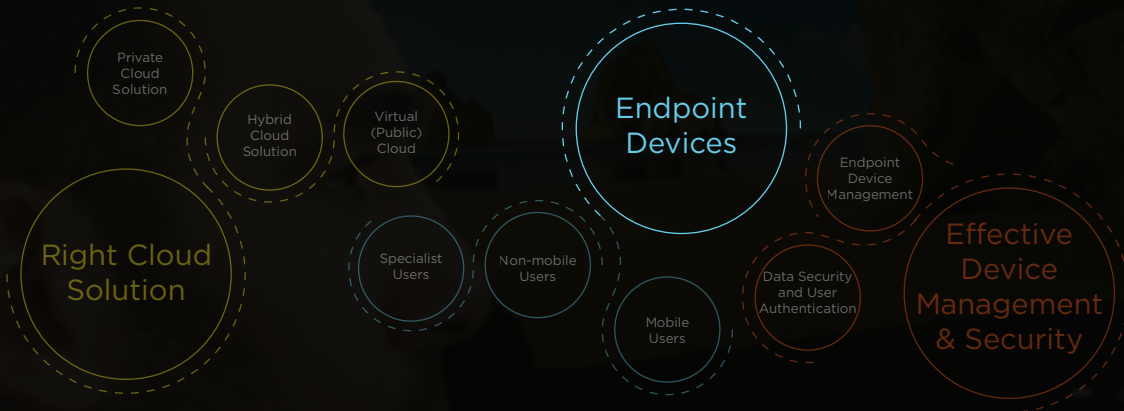
ThinkPad P71



ThinkPad P52s



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## Added Security for Think PCs

### Go-Trust: Additional Layer of Security

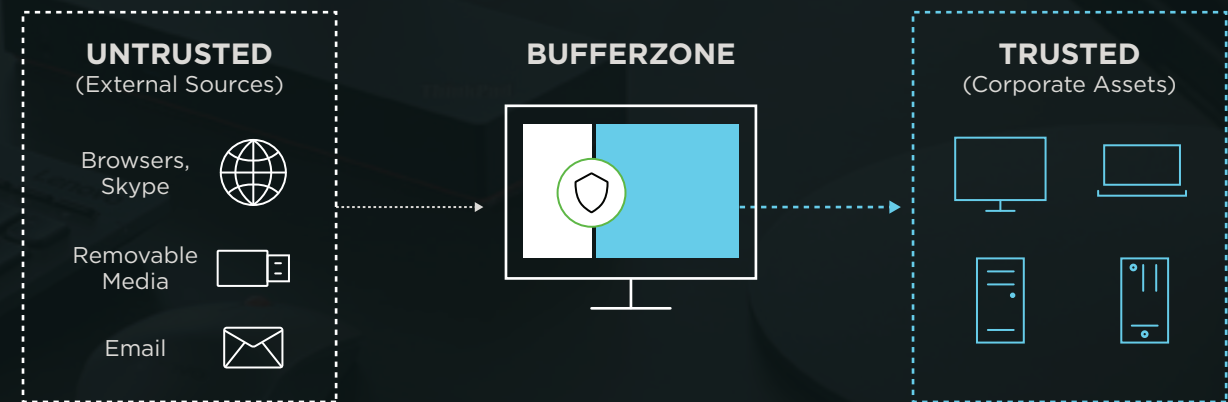
Multifactor authentication enabled Cloud apps. Your fingerprint and phone will be your digital key to open all your computers and Cloud accounts. Go-Trust Authenticator, will supersede all your current authentication from Computer login to Office 365, Google Work (G Suite) plus email signing and end-to-end data encryption. Also, have the option to privately access user information through Sparsa servers than public servers. This service is for the multifactor authentication of hardware drives.

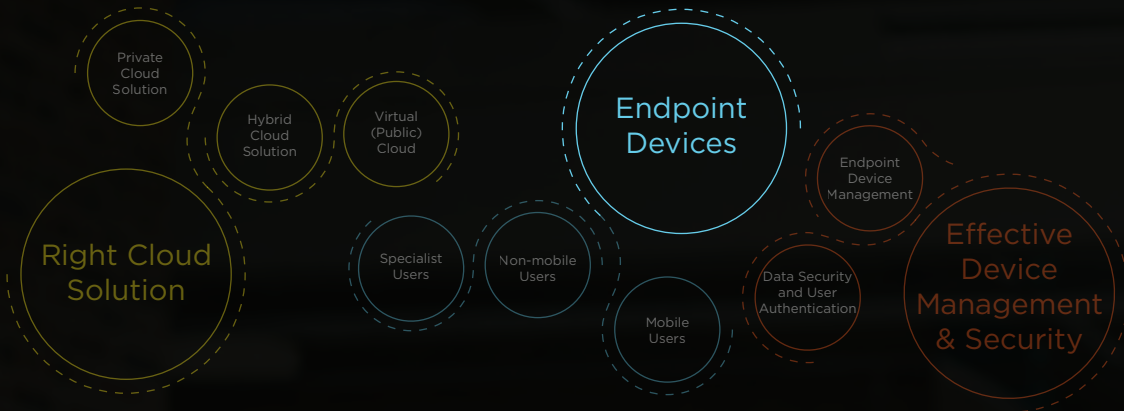
### Coronet: Effortlessly Secure Cloud Operations

True Cloud security must ensure users are authenticated, that the device used is not compromised, that the network used is safe, and that the user behavior is allowed. Coronet eliminates the need for multiple platforms needed to ensure this, with the first fully autonomous platform for Cloud security. It requires no installation and ensures that only trusted devices, networks and Cloud services can access your data.

## BUFFERZONE®: Next Generation Endpoint Security

In the age of the Cloud, threats are moving targets that cannot possibly be detected with total accuracy. So BUFFERZONE takes a new approach, isolating browsers and applications that come into contact with the internet and other untrusted sources, in their own, virtual environment. Without restricting or inconveniencing employees, BUFFERZONE protects endpoints and trusted organizational resources from any kind of malware.





## Accessories



T24m-10 Monitor

### T24m-10 Monitor

Experience near-edgeless display with the 23.8" ThinkVision monitor. Featuring convenient One-Cable solution, USB Type-C, full-function ergonomic stand and TÜV certification to optimize user experience.



T22i-10 Monitor

### T22i-10 Monitor

Delivering an immersive, borderless Full-HD experience with the ThinkVision T22i-10 monitor. Also, plugging-in is easier with this series' available VGA, DisplayPort™, and HDMI™ ports.

ThinkPad Secure Hard Disk



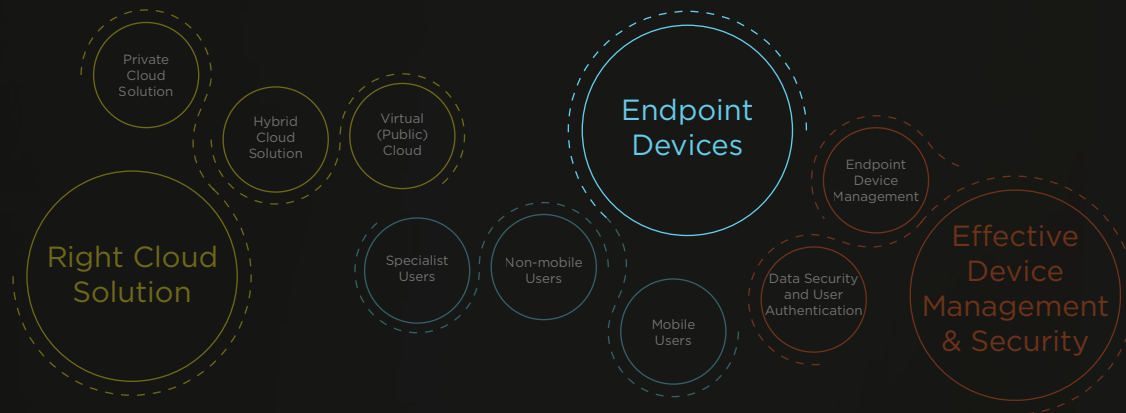
### ThinkPad Secure Hard Disk

Optimized for safeguarding essential data while on-the-go. The ThinkPad Secure Hard Disk offers high-level 256-bit Advanced Encryption Standard (AES) security within a slim, lightweight, self-powered easy-to-use design.



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## Services

### Premier Support: Effectiveness to Match ThinkPCs

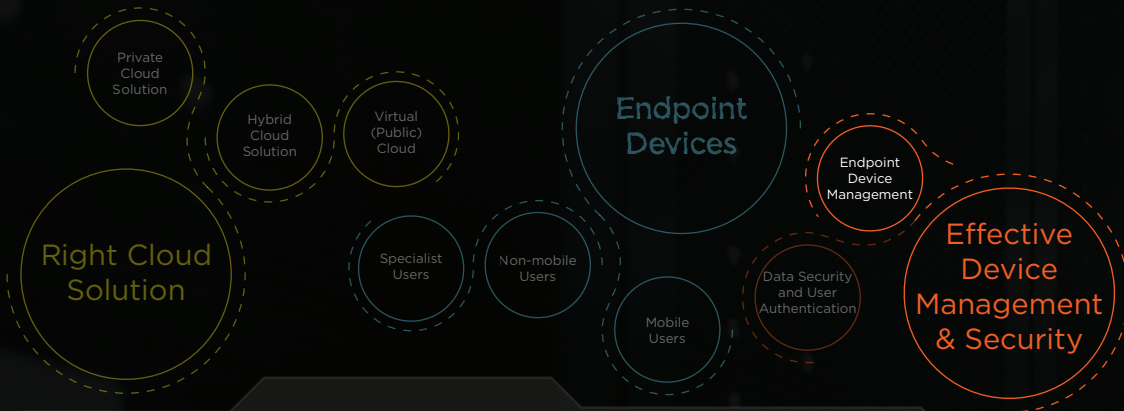
Premier Support is a service package designed for customers who want a single point of contact for hardware and software support, end-to-end case management. It's a direct line to advanced-level phone support and is designed to expedite problem resolution. This service improves efficiency of in-house IT for faster response while enabling resources to focus on mission-critical business activities.

### Accidental Damage Protection (ADP): Device Security in Cloud Computing

Access to Cloud is through the endpoint devices. Ensuring that the device is covered to address unexpected IT expenses associated with replacing damaged equipment is necessary. ADP offers convenient coverage in case of accidental damage for labor, parts, full system, and replacement in cases when repair is not possible.



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## Effective Device Management and Security

Ensure complete visibility and control of the devices for higher uptime and better security.

### Endpoint Device Management

#### Hardware Enabled Management

In the event of an attack, new **8<sup>th</sup> Generation Intel® Core™ vPro™ Processor**-based computers with **Intel® Active Management Technology (Intel® AMT)** help you stay prepared for recovery. By installing **Intel® Manageability Commander (Intel® MC)** into your Microsoft SCCM\* console (System Center Configuration Manager), you can use **Intel® AMT** to remotely take a compromised device off the network so a virus doesn't spread. Even if the operating system is down, or the device is without power, the PC can be reimaged and brought back to a good state without costly desktide visits.

#### OS Enabled MDM

Windows 10 Pro provides a consistent set of configurations across device form factors through a common MDM layer. Manage Active Directory Domain-joined devices through MDM and migrate easily to a Cloud-based management service.

#### Preloaded Tools

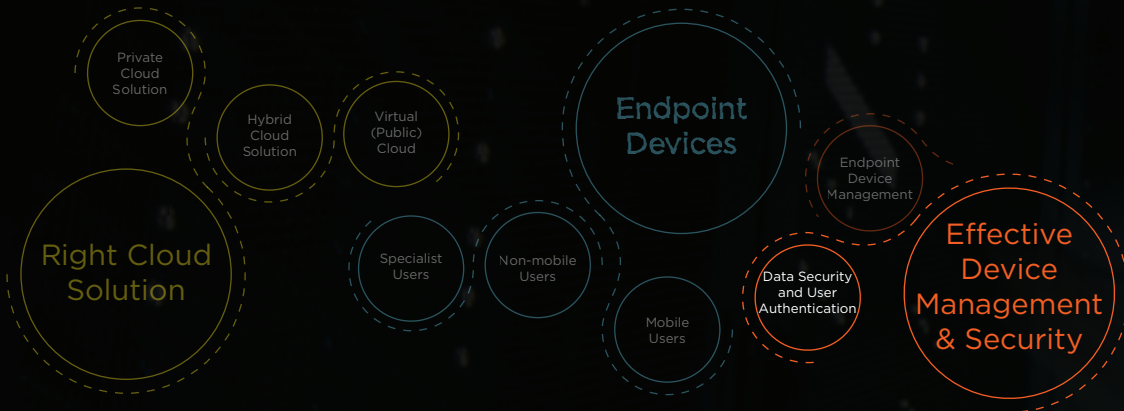
Lenovo Vantage unclutters the PC experience and makes it easier for businesses to get the most out of their Lenovo devices. It reduces the cost incurred inprocuring resources for system updates and upgrades to prevent any cost due to human error or unwanted attacks. It is the only Lenovo-branded preloaded application on systems running Windows 10.

#### Industry Leading EMM with MobileIron

The global strategic partnership of Lenovo and MobileIron EMM ensures secure provisioning and simplifies endpoint device management. It incorporates identity, context, and privacy enforcement to set the appropriate level of access to business data and services. MobileIron secures data-at-rest on the mobile device, in mobile apps, desktop and in Cloud storage. Additionally, the MobileIron EMM platform secures data-in-motion as it moves between the corporate network, devices, and various on-premise and Cloud storage repositories.



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## Data Security and User Authentication

### Fast Identity Online (FIDO) for Cutting Edge User Authentication

Many ThinkPads are FIDO enabled. FIDO authentication pertains to online credentials when users sign into internal and external websites or make payments online. This global solution creates better security for online services, reduces costs for organizations, and is simpler and safer for users. It ensures hardened authentication and wraps access information into three layers of security.

### Hardware Enhanced Multifactor Authentication

ThinkPad laptops are integrated with **Intel® Authenticate** solution that gives IT the flexibility to create and deploy customized hardened multifactor authentication policies to enforce user identity protection for access to the corporate domain, network, and VPN. **Intel® Authenticate** solution provides a simple self-service enrollment tool for end users to quickly get started, eliminating calls to IT.

### Lenovo Vantage for In-built WiFi Protection

Designed to monitor WiFi security in real-time, Lenovo Vantage can distinguish between legitimate networks and risky, possibly malicious networks. It can also detect threats or attacks that are present near the laptop and alert the IT to it, for further action.



### Absolute with Persistence Technology

ThinkPads have the Persistence agent from Absolute embedded into the firmware. Persistence is the only technology that keeps you in complete command with a self-healing, two-way connection to any endpoint or application — even if they are off the network.

### Online Data Backup (OLDB)

Lenovo's Online Data Backup is easy-to-use, automatic online backup and recovery software solution. With this tool, organizations and user groups can share a pool of storage without the administrator assigning storage to specific users.

- Requires no capital expenditures for hardware; low upfront investment with minimal maintenance overhead
- Relative to tape-based approaches, OLDB is more efficient, less intensive for the operator, and not as prone to human error



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## Conclusion

The future of technology is in the Cloud. So, businesses need to make a start by choosing the right Cloud solution. But it doesn't end at that, choosing the right endpoint devices to complement the PC and the Cloud Ecosystem is equally essential. Lenovo endpoint devices are built keeping the new age workforce and work environment in perspective. With security, connectivity, and flexibility at its core, the endpoint devices can effectively meet your employees' needs.



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# 5 reasons why Lenovo is a difference maker



Trusted around the world



Expertise across categories



Confidence in our products



Business-boosting technology



Flexible support network



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