



ThinManager

Licensing

Agenda

- Three License Types
- Concepts for ThinManager Licensing
- License Activation Demo

Three Licenses

- ACP ThinManager
 - Allows terminal to boot
- Microsoft
 - Allows terminals to start sessions
- Application
 - Allows applications to run

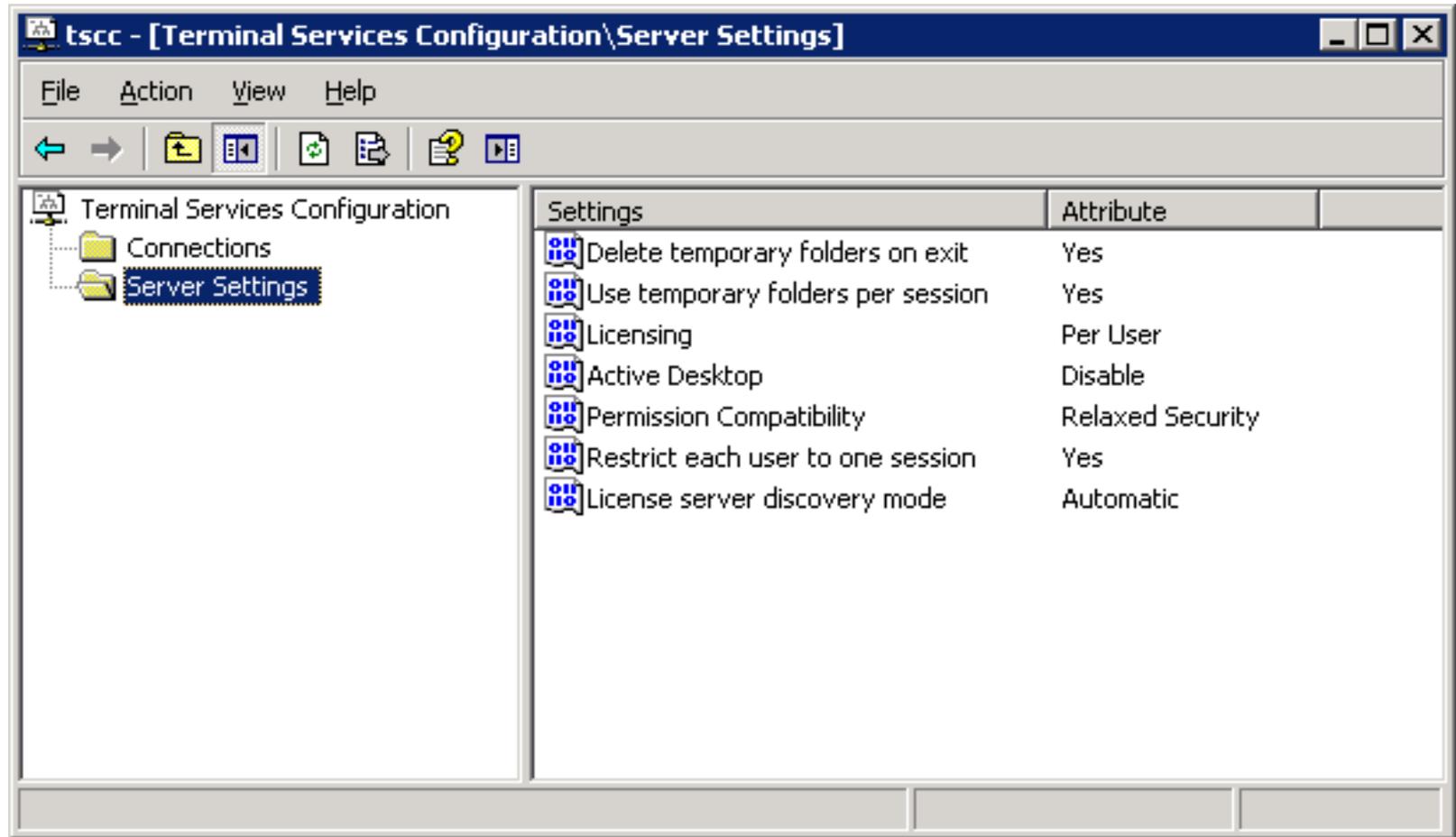
Microsoft Licenses

- Terminal Services Client Access License
 - TS CAL
 - Required for connection to terminal servers
 - Available as “Per Device” or “Per User”
- Remote Desktop Services CAL
 - RDS CAL
 - Name change in Server 2008 R2
- License Server is the repository for licenses
 - Application role, not specific hardware device

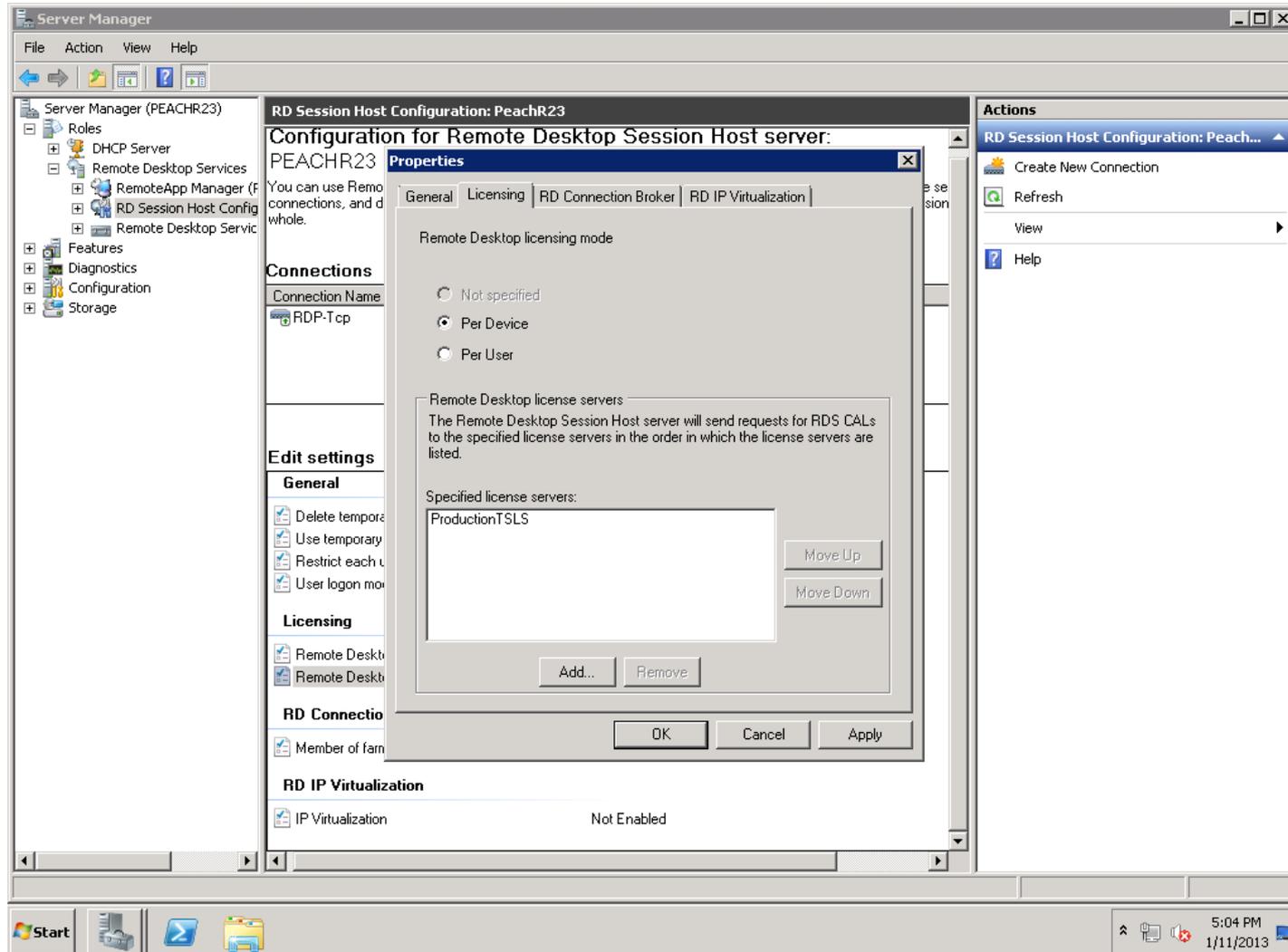
Terminal Services Configuration

- Sets Licensing Mode
 - Per Device
 - Per User
- Specifies License Server
 - Automatic discovery
 - Specific server

Server 2003



Server 2008 R2



Application Licenses

- Usually per active session
- Methods depend on the vendor
- See application vendor for details

Concepts for ThinManager

- Failover versus Redundancy
- Standard versus Enterprise License
- License Activation

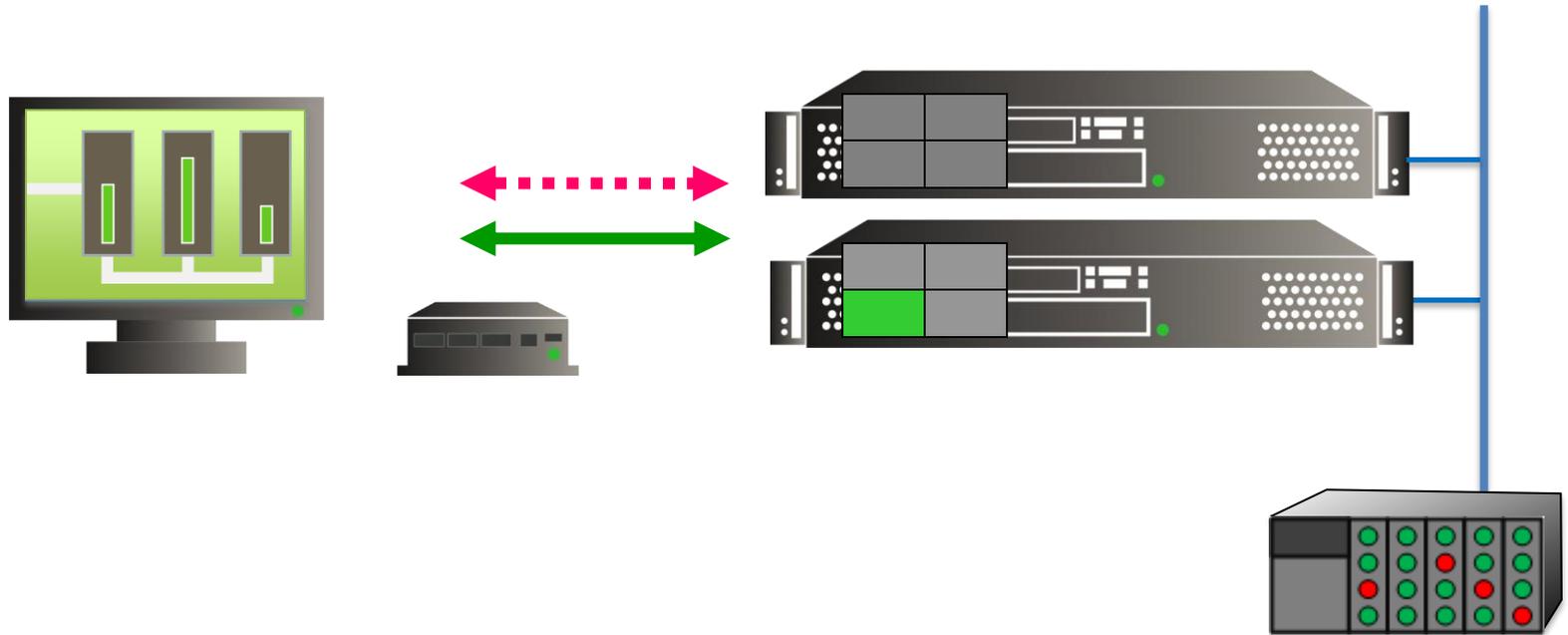


Redundancy vs. Failover

- Redundancy = Two ThinManager Servers
 - Used when starting thin clients
- Failover = Two Terminal Servers
 - Used while running sessions and applications

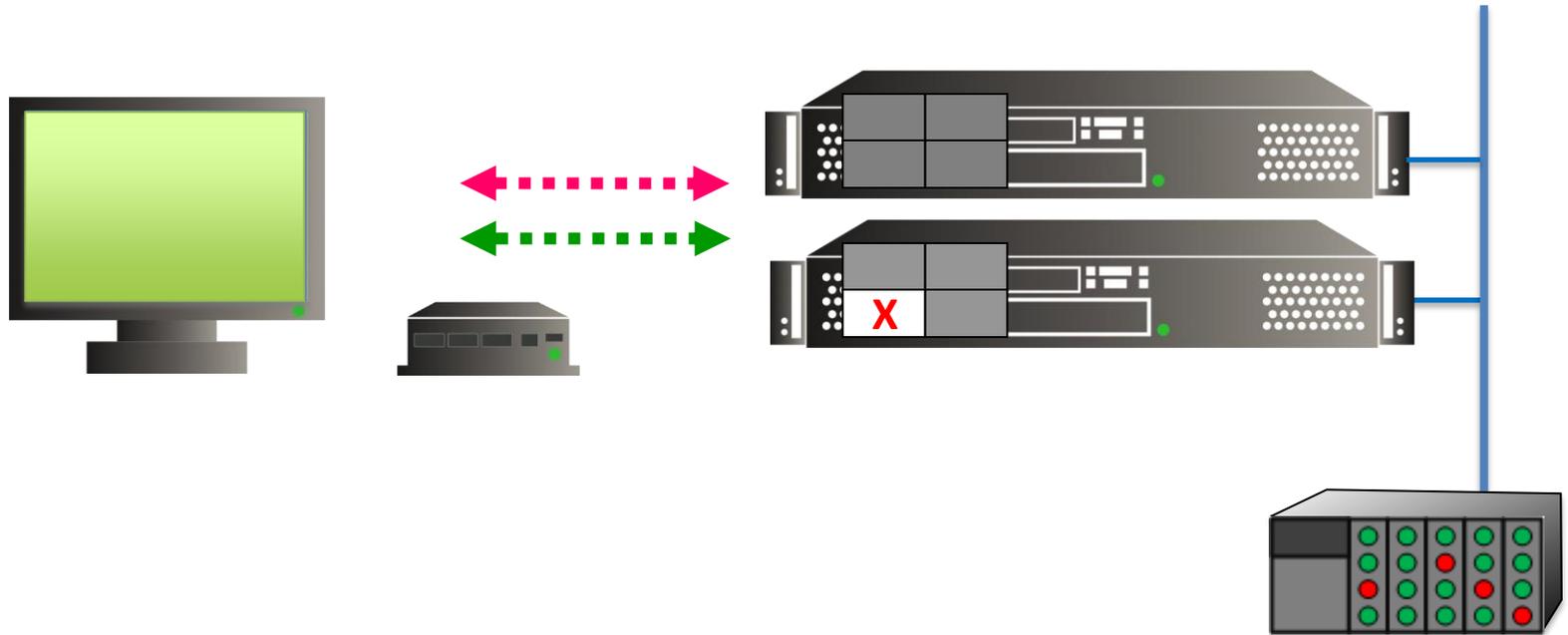
Failover

- Assign Terminal to two Terminal Servers



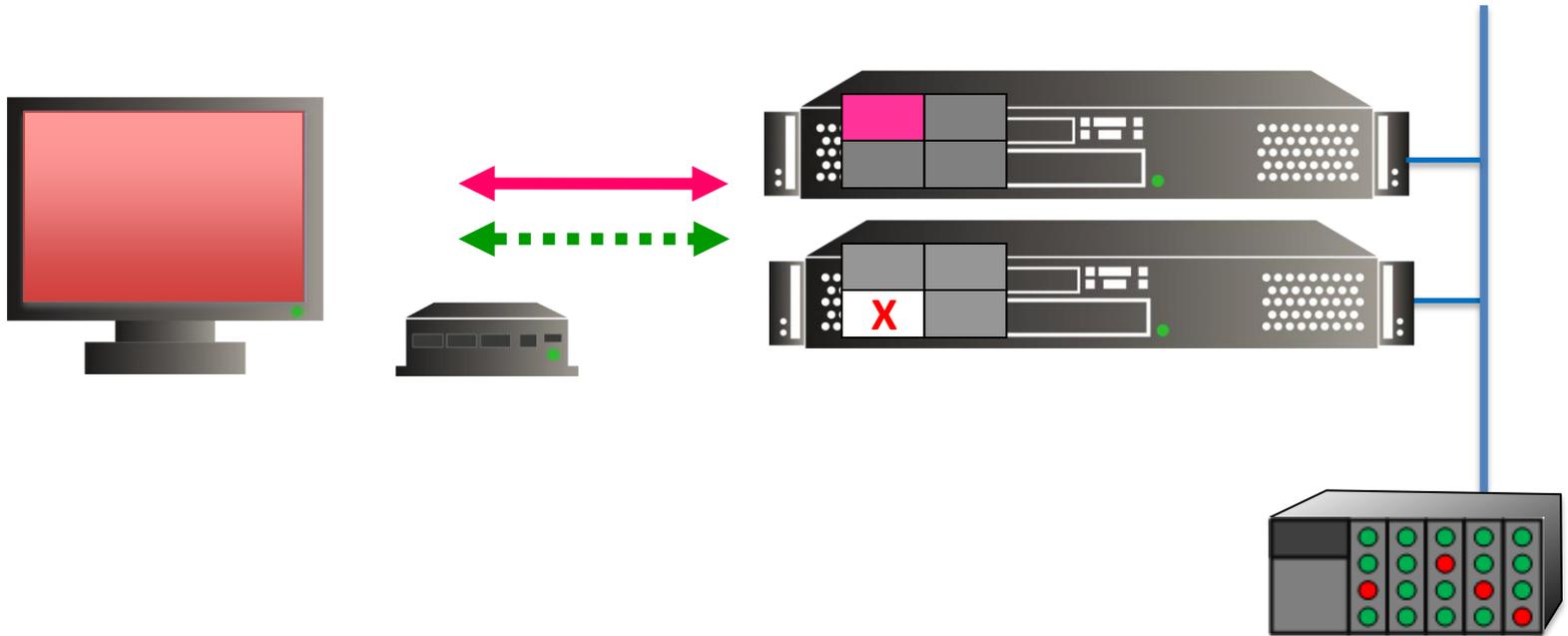
Failover

- Primary Server Failure...



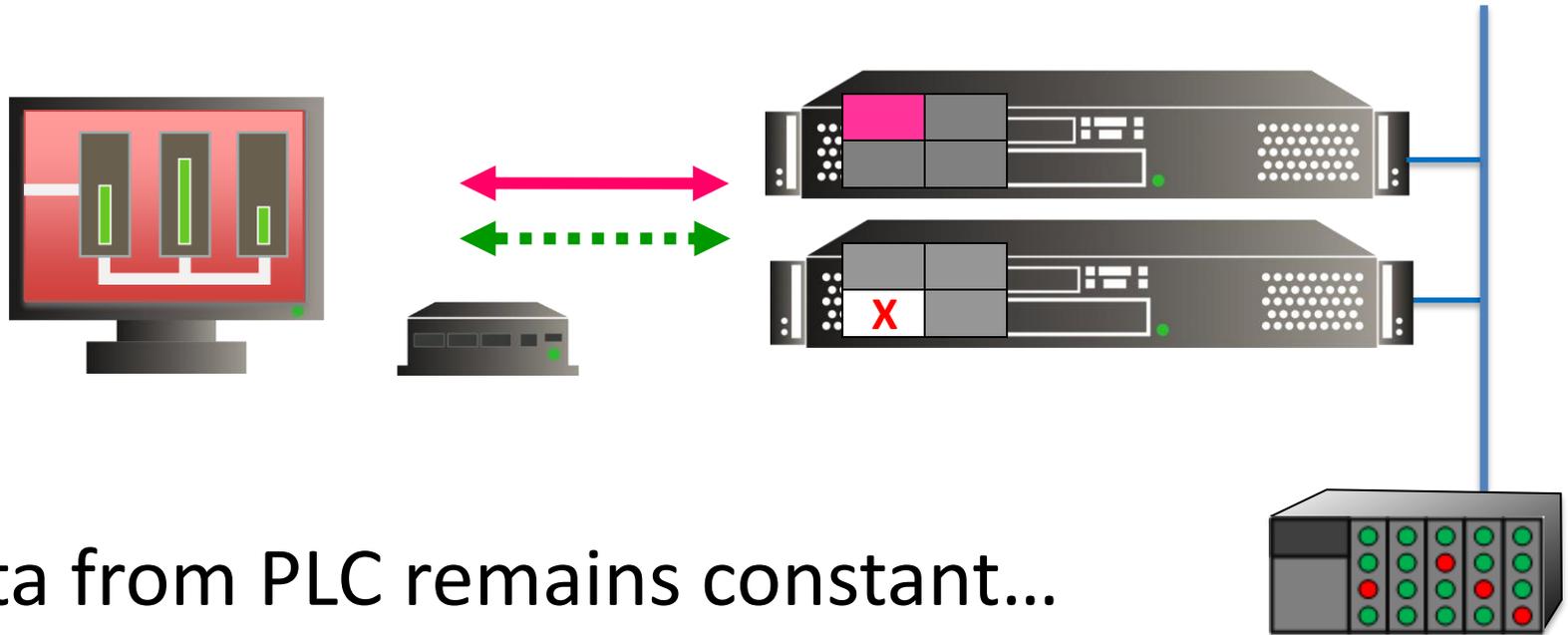
Failover

- Switches to Backup



Failover

- Terminal Starts Application on Backup



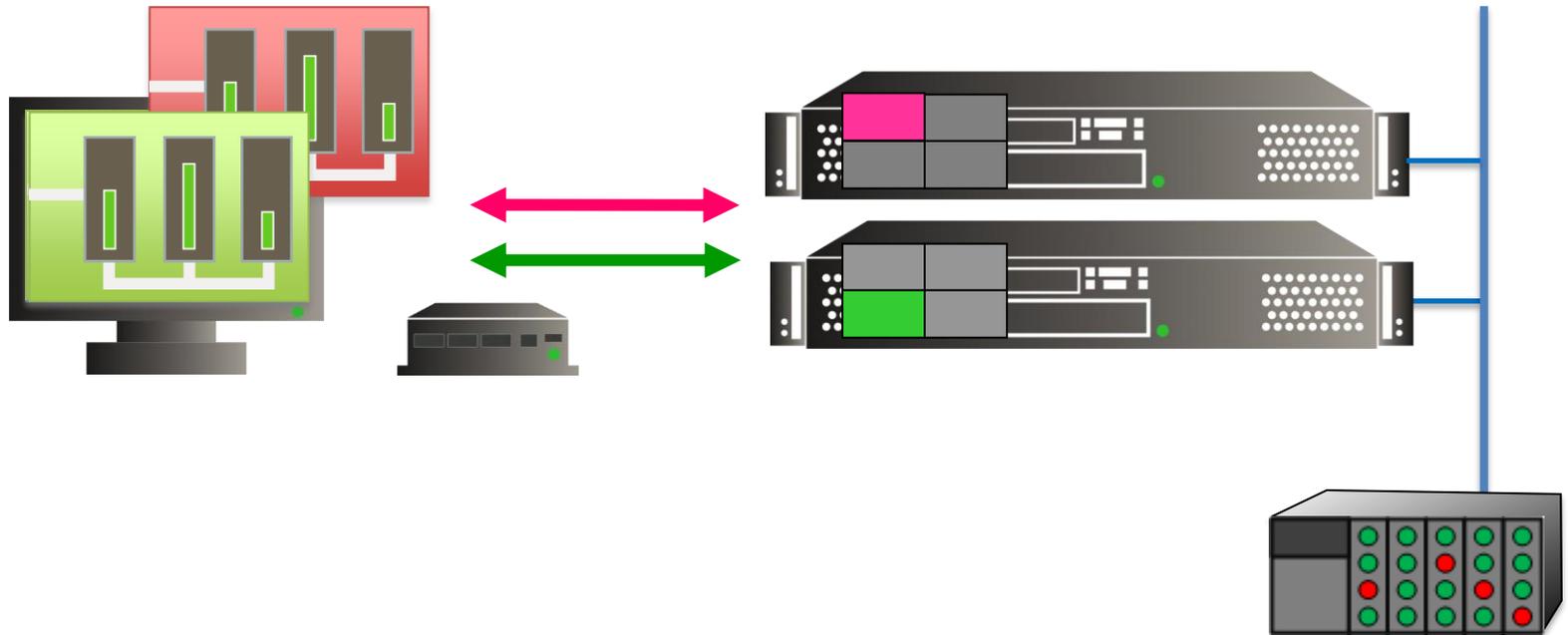
- Data from PLC remains constant...

Not Fast Enough?

- Switch takes 20 seconds
- Application may take 1 – 3 minutes to load

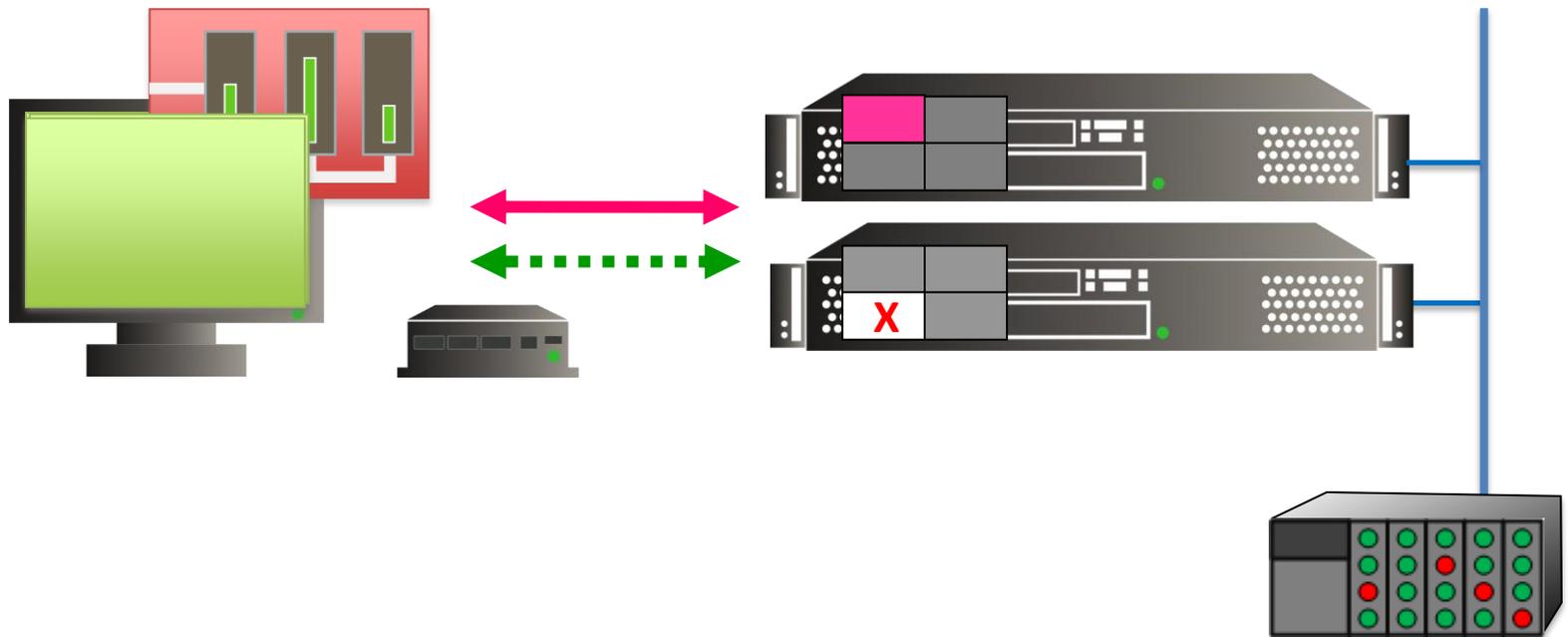
Instant Failover

- Load two sessions at once
- No need to wait for application to load



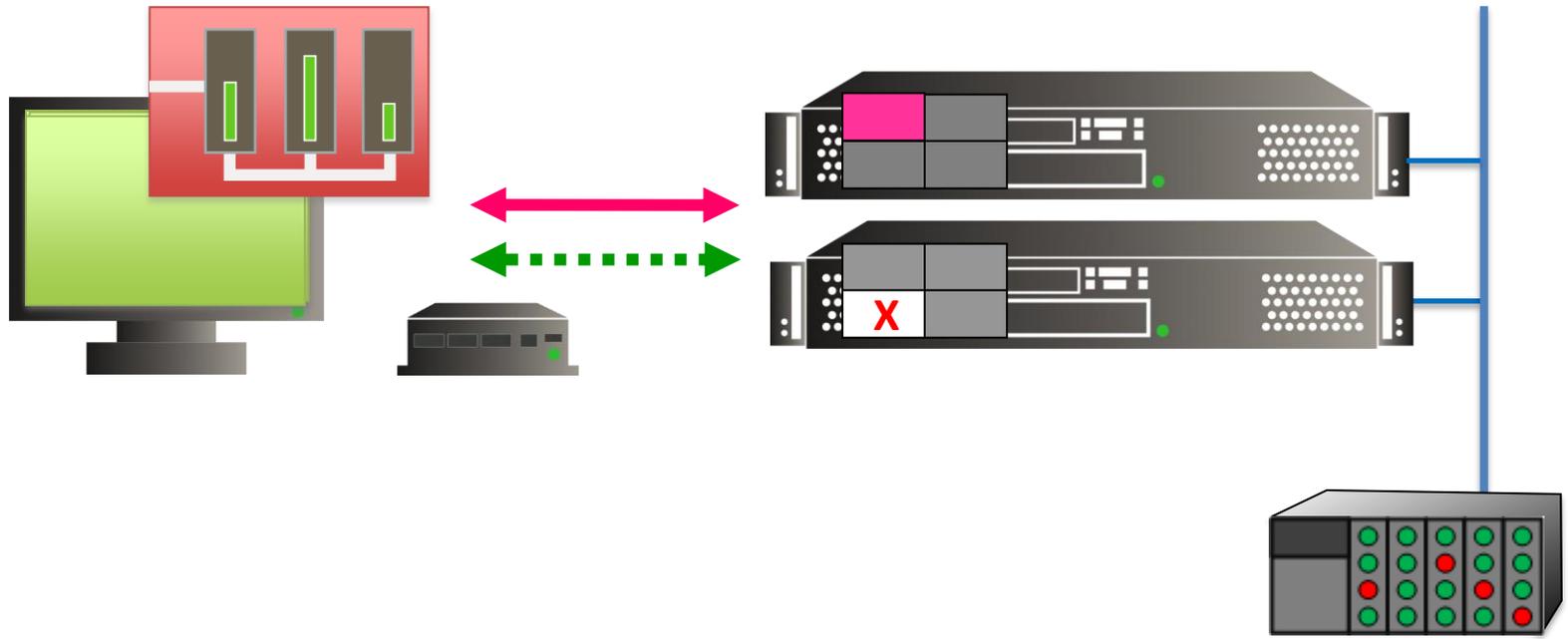
Instant Failover

- Primary Server Failure...



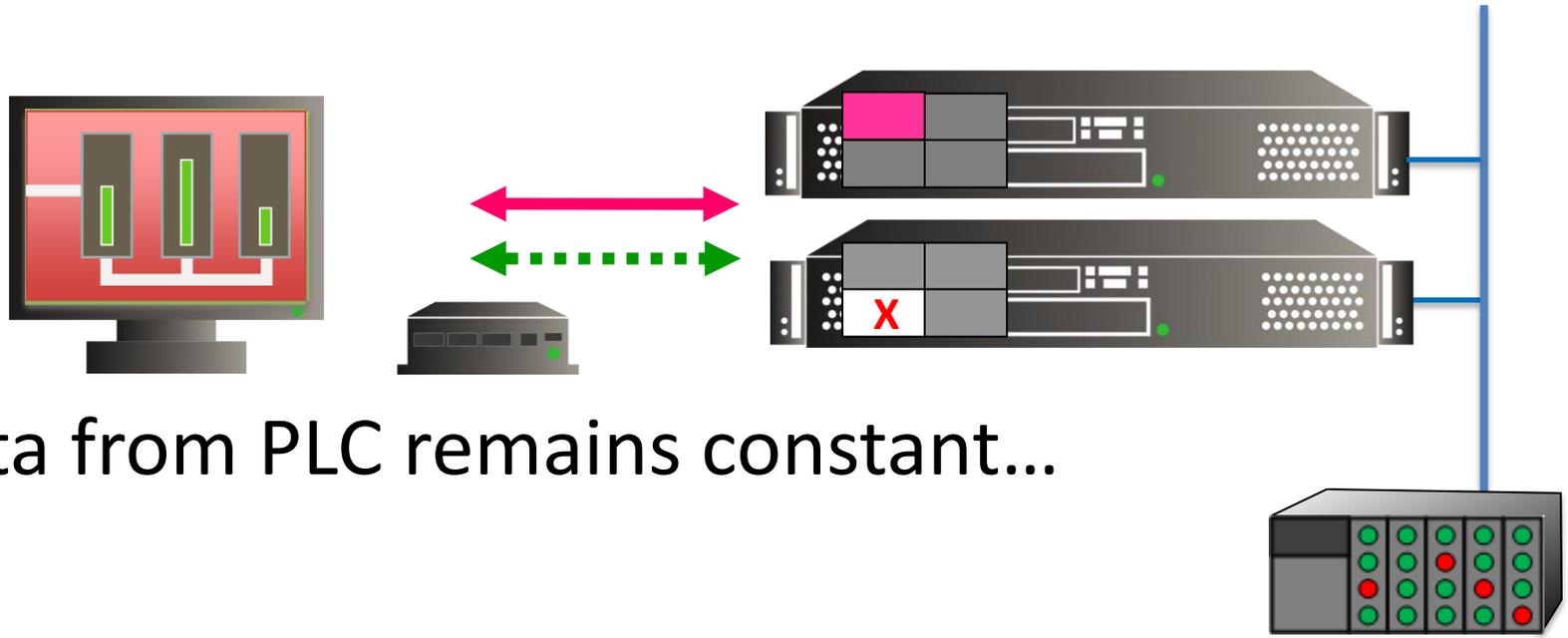
Instant Failover

- Secondary takes the focus...



Instant Failover

- Production continues uninterrupted...



- Data from PLC remains constant...

ThinManager Components

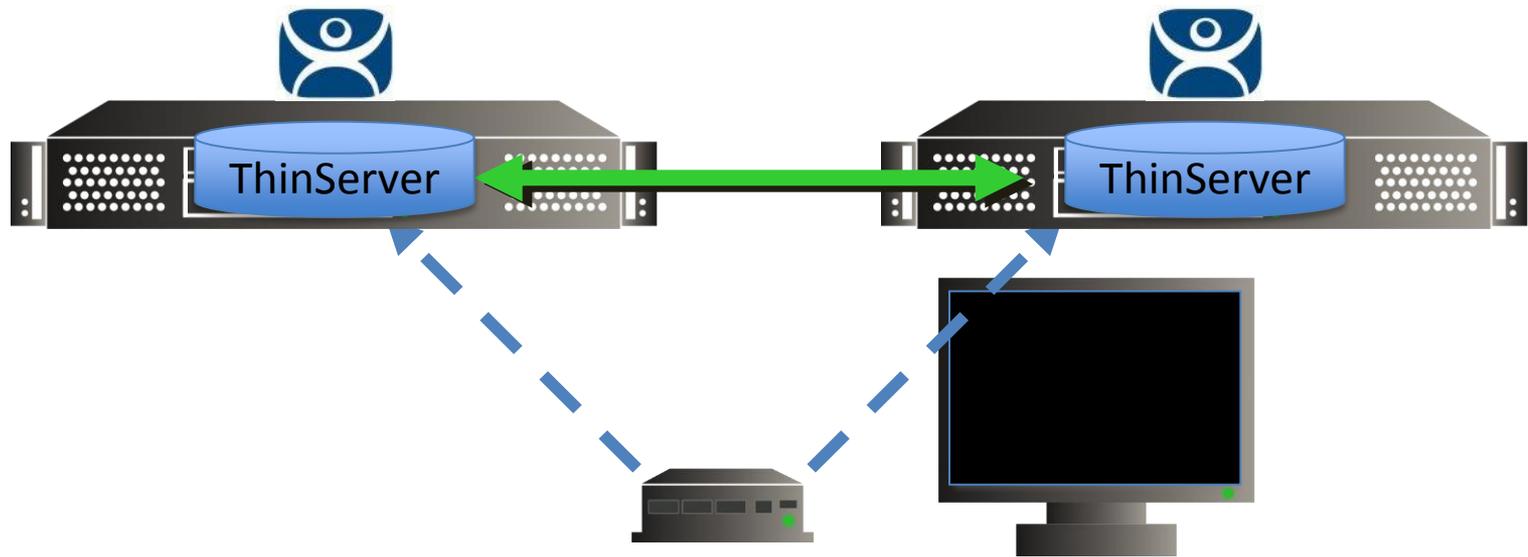
- ThinServer
 - Windows service
 - Database engine
 - Does the actual work
- ThinManager
 - User interface
 - Allows users to see and configure database
- Both components make a ThinManager Server

Redundancy

- Full Redundancy
 - Two Synchronized ThinServer engines
 - Two administrative ThinManager interfaces
- Mirrored Redundancy
 - Two Synchronized ThinServer engines
 - One administrative ThinManager interface
- Stand-alone
 - One ThinServer engine
 - One administrative ThinManager interface

Redundant ThinManagers

- Two ThinServers auto-synchronized
- Terminal can boot from either ThinServer
- Two ThinManager Interfaces

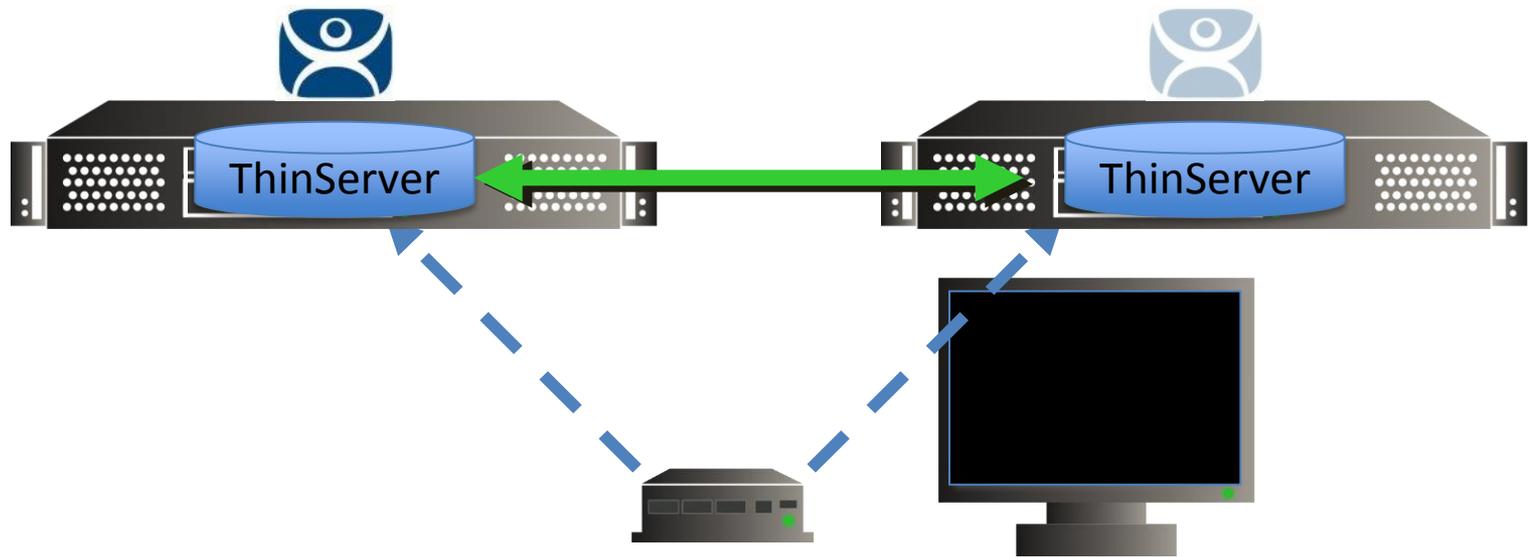


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- **Mirrored Redundancy**
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Mirrored ThinManagers

- Two ThinServers auto-synchronized
- Terminal can boot from either ThinServer
- ThinManager Interface on Primary only

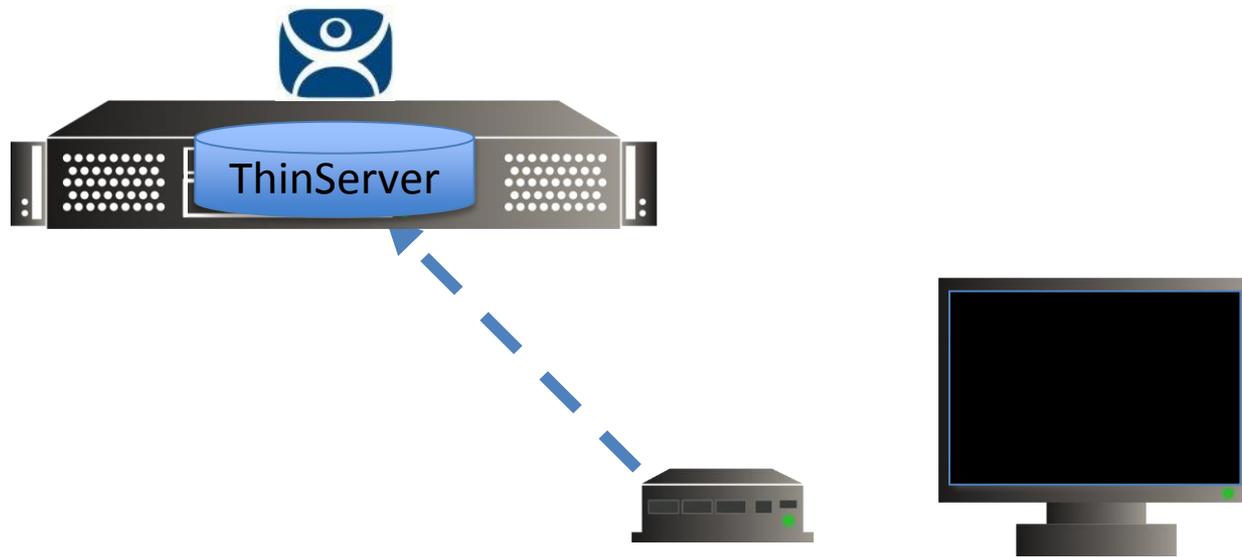


Redundancy

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 - One ThinServer engine
 - One administrative ThinManager interface

Stand-Alone ThinManager

- One ThinServer
- Terminal boots from single ThinServer
- One ThinManager Interface



Two License Modes

- Standard Licenses
 - 5, 10, 25-packs
 - Redundant, Mirrored, or Stand alone
- Enterprise
 - Unlimited terminal connections
 - Full Redundancy

Enterprise

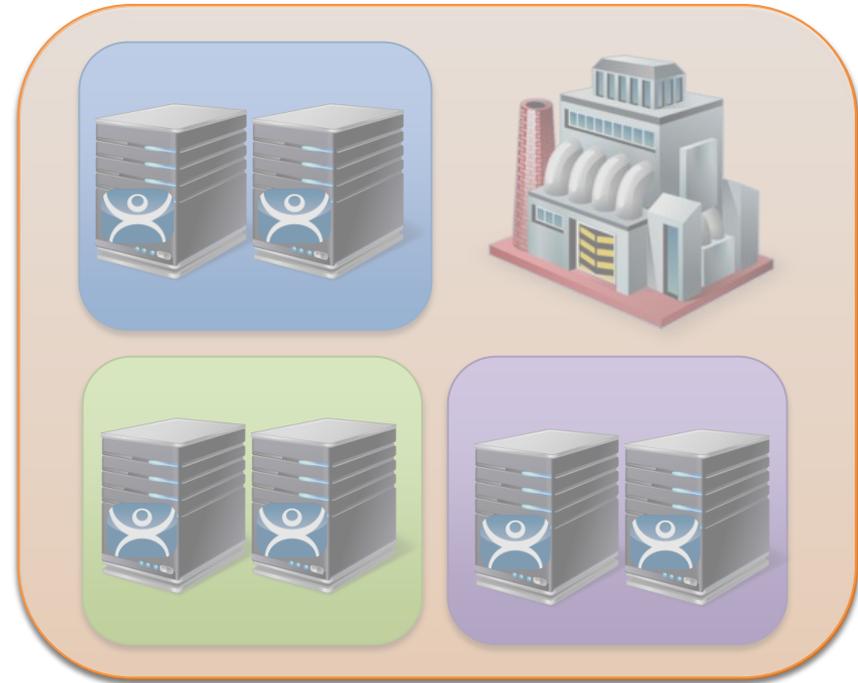
- **Server**

- Unlimited Terminal Connections
- Redundant pair of ThinManager
- One Location



- **Site**

- Unlimited Connections
- Unlimited ThinManagers
- One Site



Enterprise

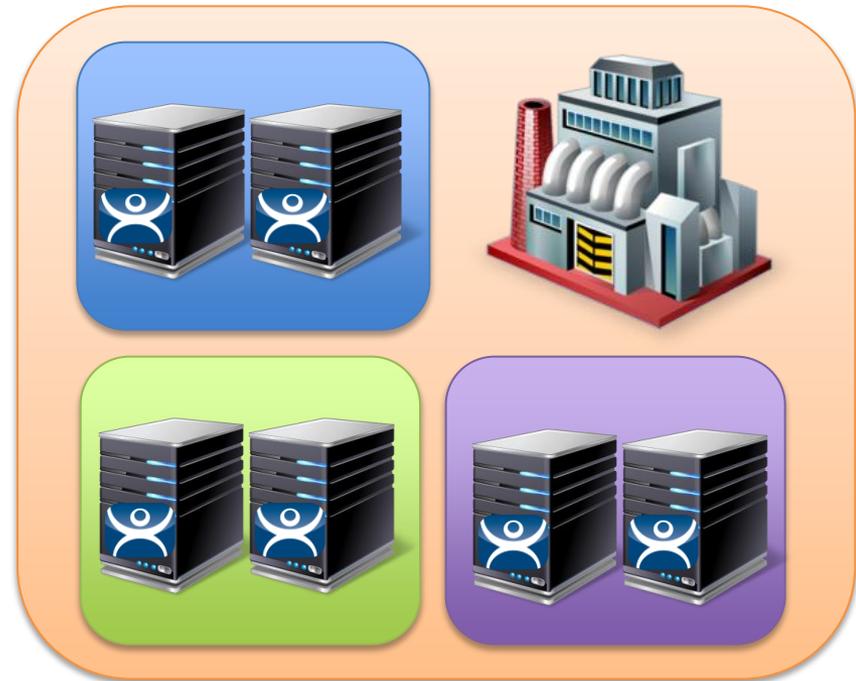
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- **Site**

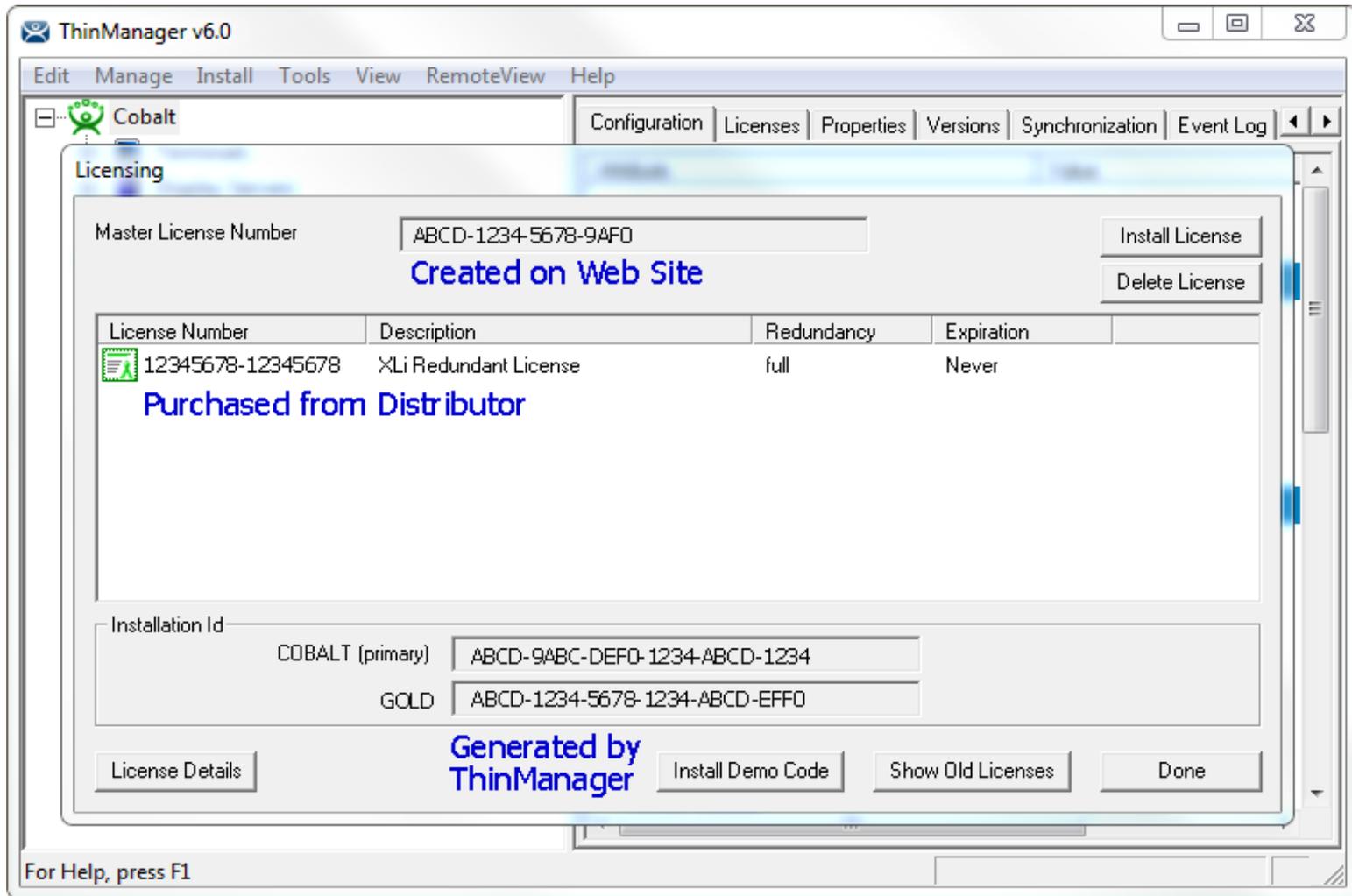
- Unlimited Connections
- Unlimited ThinManagers
- One Site



Licensing Steps

- Buy Product Licenses from VAR/distributor
- Go to License Site on Web
- Create a Master License
- Add Product Licenses
- Activate Master License with Install ID from ThinManager
- Apply Master License to ThinManager

Licensing Window in ThinManager





ThinManager

Thank You