MDT & **WDS**

WDS	- Windows Deployment Services (WDS) is a server based technology used for deploying Windows operating systems remotely and operates as a server role in a Windows Server. - WDS can handle automated deployment of Windows operating systems. - WDS is most useful for initiating network-boot WinPE sessions via PXE (Preboot Execution Environment). - It does not support the ability to deploy software or configuration changes during the deployment process.
MDT	- MDT, is an application that can facilitate the deployment of operating systems and software applications. It is a highly customized and automated deployment solutions. - MDT can operate independently or through a service such as WDS, which is most useful for initiating network-boot WinPE sessions via PXE MDT supports a wide variety of deployment methodologies: - Zero Touch Installation (ZTI) (Requires integrations with SCCM) - Lite Touch Installation (LTI) - User Driven Installation (UDI) MDT is a task based deployment process, and it offers unparalleled customization options during deployment. - Run custom scripts - Install software MDT and WDS process flow - Client/Server is powered on and F12 PXE boot is initiated. - IP address is supplied by the DHCP server to the client - Client broadcasts a PXE boot request - IP Helper Forwards the PXE broadcast to the WDS server - WDS presents boot image options and select appropriate Lite-Touch boot image. The image is sent down to device. - The WinPE boot image requests deployment information from the MDT Deployment Share. - Select the Task Sequence from MDT Task Sequence selection menu and initiates deployment from the MDT Deployment Share for the desired OS.