Full PC Build Checklist

Category	Item	Purpose / Notes
Core Components	CPU (Processor)	Main computing unit (e.g., Intel i5, Ryzen 3+)
	CPU Cooler	Cools the CPU; often comes with the CPU
	Motherboard	Must match CPU socket; ATX or Micro-ATX size
	RAM (Memory)	8GB minimum (DDR3 or DDR4 depending on board)
	Storage (SSD/HDD)	SSD for OS (120GB+), optional HDD for data
	Power Supply (PSU)	400-600W; 80+ certified recommended
	PC Case (Chassis)	Holds everything; must fit motherboard size
Cables (Included or Needed)	Power Cable (for PSU)	Connects PSU to wall socket
	24-Pin ATX Power Cable	Powers motherboard; included with PSU
	4/8-Pin CPU Power Cable	Powers CPU; included with PSU
	SATA Power Cables	Powers storage drives; from PSU
	SATA Data Cables	Connect SSD/HDD to motherboard; usually included with mothe
	Front Panel Connectors	Comes pre-installed in case (power/reset/LEDs)
	Case Fan Cables	Connects fans to motherboard or PSU
	GPU Power Cable (6/8-pin)	Only needed if using a dedicated GPU
	(Optional) Molex/SATA Extensions	For longer reach if needed
Accessories / Tools	Thermal Paste	If not pre-applied on cooler, apply manually
	Mounting Screws	For motherboard, drives, and PSU; included with case/mobo
	Standoffs	Prevent motherboard shorting; included with case
	Phillips Screwdriver (#2)	Needed for all assembly
	Zip Ties / Velcro Straps	For cable management
	Anti-Static Wrist Strap (optional)	Prevents electrostatic damage while building
Peripherals (Setup)	Monitor	For initial setup and troubleshooting
	Keyboard & Mouse	Required for OS installation/config
	Bootable USB Drive	Use to install OS (create with Rufus)
	Ethernet Cable	For reliable network connection to router
Networking (Optional)	USB Wi-Fi Adapter / PCIe Wi-Fi Card	If Ethernet not available
	USB-to-Ethernet Adapter	If onboard Ethernet is broken or missing
	KVM Switch (optional)	Useful if managing multiple PCs with one monitor/mouse/keybo
Advanced (Optional)	GPU (Graphics Card)	Needed for gaming, video encoding, or GPU compute tasks

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	UPS (Uninterruptible Power Supply)	Keeps server running during power loss