

# Claws & Effect Veterinary Hospital

Proposal to work

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# Introduction

Claws & Effect veterinary office currently uses paper and filing cabinets to keep track of their patients. This has hindered efficiency and organization. Because of this they are unable to treat as many animals as they'd like, and often lose files and have to start over with return patients. They'd like to upgrade to a new digital system complete with a central server and all-in-one office machine, as well as workstations in every examination room, office, and other room in the building. This will help them maximize their office space and will improve organization and efficiency.

# Narrative

We will develop a network that effectively and efficiently provides intranet and internet to all workstations and offices in the building. Each workstation will have a computer, and there will be a central all in one office machine as well as dedicated scanners, printers, or both for those who require them. We will also install Wi-Fi in the lobby for the guests to use.

# Specs

## Computers

- Intel Core i5 7th Gen 7400 (3.00 GHz)
- 8 GB DDR4
- 1 TB HDD
- Windows 10 Home 64-Bit
- Intel HD Graphics 630

## Monitors

- 23", 1920x1080, 1ms
- ASUS EyeCare technology
- Built In 1.5W x 2 Stereo RMS
- 2 x HDMI, D-Sub

## Scanners

- Document scanner
- Duplex
- 8.5 in x 14 in
- 600 dpi x 600 dpi
- up to 80 ppm (mono) / up to 80 ppm (color)
- ADF (80 sheets)
- up to 6000 scans per day

## Laser Printers

- Printer
- color
- Duplex
- laser
- A3/Ledger
- 1200 x 1200 dpi
- up to 45 ppm (mono) / up to 45 ppm (color)

## InkJet Printers

- Printer
- color
- Duplex
- page wide array
- A3/Ledger

- 1200 x 1200 dpi
- up to 75 ppm (mono) / up to 75 ppm (color)

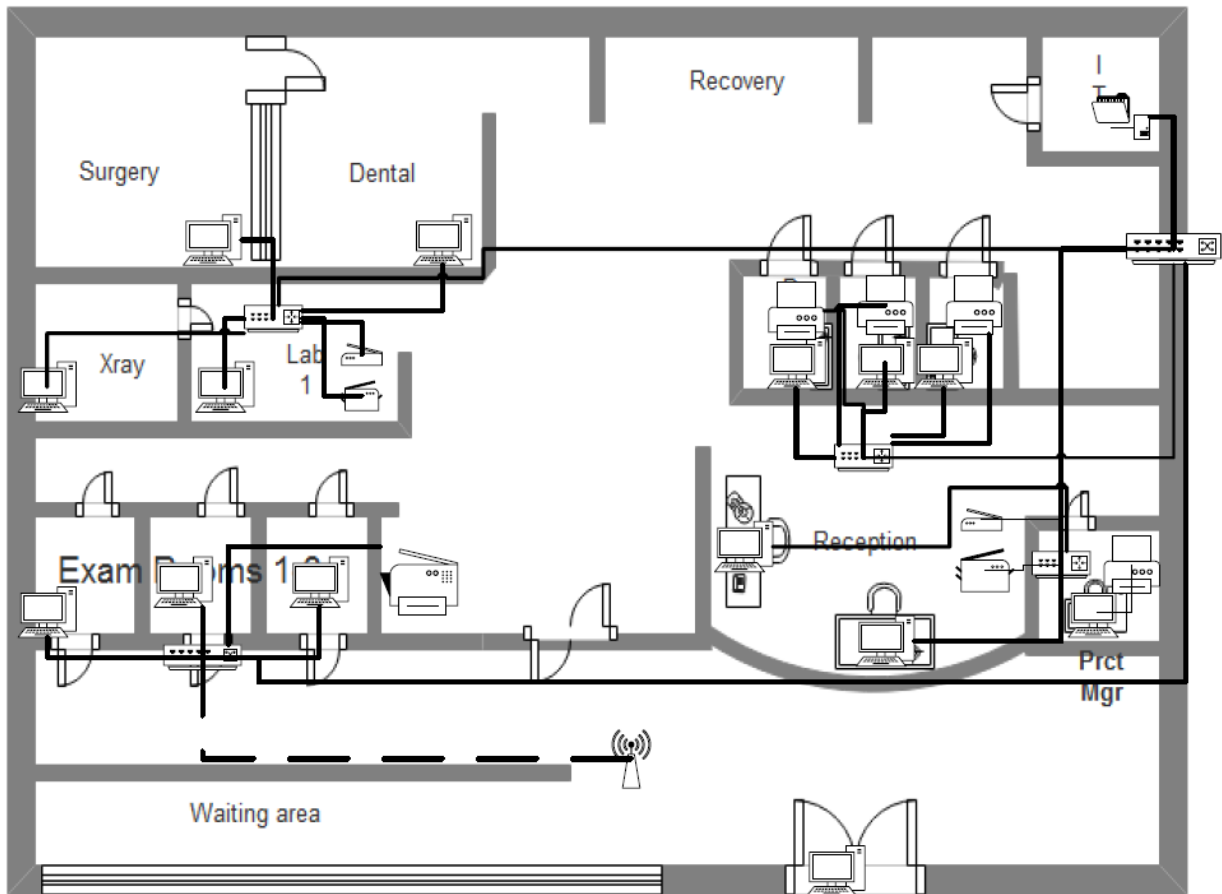
#### Office Machine

- Multifunction printer
- color
- LED
- 8.5 in x 14 in (original)
- A4/Legal (media)
- up to 55 ppm (copying)
- up to 55 ppm (printing)

#### Server

- 1 Year Warranty On Computer
- 2TB HDD w/ 3 Year Warranty From Manufacturer
- 1GB Nvidia Quadro 600
- 8-Core Intel Xeon E5-2689
- New Install of Windows 10 Pro 64-bit

# Physical Topology



# Quote

Item	Supplier	Unit Price	Quantity	Total Price
Computer	Newegg	\$ 529	13	\$ 6,877
Monitor	Newegg	\$ 140	14	\$ 1,960
Scanner	CDW-G	\$ 1,602	2	\$ 3,204
Color Inkjet Printer	CDW-G	\$ 3,799	2	\$ 7,598
Laser Printer	CDW-G	\$ 3,699	4	\$ 14,796
All-In-One Machine	CDW-G	\$ 4,554	1	\$ 4,554
Server	Newegg	\$ 1,579	1	\$ 1,579
Cat 5e Cable	Graybar	\$ 170	1	\$ 170
Switch	Staples	\$ 48	4	\$ 192
Wi-Fi Router	Best Buy	\$ 160	1	\$ 160
Misc. (Tools/Keystones/ Faceplates)	Graybar	\$ 500	1	\$ 500
Labor (Hr.)	Team	\$ 65	120	\$ 7,800
<b>Total</b>				<b>\$ 49,390</b>

# References

## Computer

- <https://www.newegg.com/Product/Product.aspx?Item=9SIADRF6BJ7389>

## Monitor

- <https://www.newegg.com/Product/Product.aspx?item=N82E16824236305>

## Scanner

- <https://www.cdwg.com/product/Fujitsu-fi-7180-Wired-USB-Document-Scanner/3205506?pfm=srh>

## Inkjet Printer

- <https://www.cdwg.com/product/HP-PageWide-Enterprise-Color-765dn-printer-color-page-wide-array/4850516?pfm=srh>

## Laser Printer

- <https://www.cdwg.com/product/HP-LaserJet-Enterprise-M855dn-46-ppm-Color-Laser-Printer/3166212?>

## All-In-One Machine

- <https://www.cdwg.com/product/Xerox-VersaLink-C605-XPM-multifunction-printer-color/4725917?pfm=srh>

## Server

- <https://www.newegg.com/Product/Product.aspx?Item=9SIA65E5BT2520&ignorebbr=1>

## Switch

- [https://www.staples.com/NETGEAR-ProSAFE-8-Port-Gigabit-Ethernet-Desktop-Switch-GS108NA/product\\_676705](https://www.staples.com/NETGEAR-ProSAFE-8-Port-Gigabit-Ethernet-Desktop-Switch-GS108NA/product_676705)

## Wi-Fi Router

- <https://www.bestbuy.com/site/netgear-nighthawk-ac1900-dual-band-wi-fi-router-black/1754208.p?skuId=1754208&cmp=RMX&ref=212&loc=1>

## Cable

- <https://www.graybar.com/store/en/gb/5e-lan-comm-data-premise-cable-5e-non-plenum-blue-99510659#{Color:Blue}&{Jacket%20Materials:PVC}&{No.%20of%20Pairs:4}&{Package:1000%20Foot%20Box}>