

ALCHEMY MOBILE APPS

PROPOSAL

Description

This plan outlines how to set up the necessary hardware and software for Alchemy Mobile Apps within a \$15,000 budget.

We aim to create a secure and efficient workspace for developing Android apps, and animations, and handling daily business tasks while working within leasing restrictions.





Objectives

- Set up a dedicated server for accounting software and shared files with secure backups.
- Build an efficient wireless office network to meet collaboration and work requirements.
- Procure software for animation, app development, and website management
- Incorporate an office printer for administrative tasks.
- Ensure the infrastructure supports Android mobile app development.

HP Z2 G9 Tower Workstation

Operating system: Windows 11 Pro

Processor: Intel® Core™ i5-12500 Processor
(3.0 GHz, up to 4.6 GHz w/Boost, 18 MB
cache, 6 core, 65W) ECC + Intel® UHD
Graphics 770

Memory: 16 GB (1 x 16 GB) DDR5-4800
UDIMM Memory

Internal M.2 storage: (2) 512 GB PCIe 4x4
2280 Value M.2 SSD

Graphics card NVIDIA®: T400 (4 GB
GDDR6, 3 x Mini DisplayPort) Graphics

Real-time data backup: RAID 1 Mirrored
Array Configuration

Wireless LAN: Intel® Wi-Fi 6 AX211 +
Bluetooth® 5.2



HP V22v G5 FHD Monitor + Wireless Mouse and Keyboard Bundle



Monitor

Display Type: VA; LCD.

Native Resolution: FHD (1920 x 1080)[1,2].

Dimensions: 19.85 x 2 x 11.93 in.

Keyboard and Mouse

Connection Type: 2.4 GHz wireless connection.

Battery: 2 x AAA (keyboard); 1 x AA (mouse).

Battery life: Up to 16 months (keyboard); Up to 12 months (mouse)

HP Smart Tank 7301 All-in-One Printer



Print up to 8,000 color/6,000 black pages with ink bottles included in the box

Functions: Print, Scan, Copy, ADF, Duplex, Wireless

Monthly duty cycle: Up to 5,000 pages

Connectivity, standard: 1 Wi-Fi Direct; 2 Hi-Speed USB 2.0 (device); 1 Ethernet

Print Speed - Black: Up to 15 ppm

Replacement cartridges:

HP 32XL 135-ml Black bottle (~6000 pages),
HP 31 70-ml Cyan bottle (~8000 pages),
HP 31 70-ml Magenta bottle (~8000 pages),
HP 31 70-ml Yellow bottle (~8000 pages);



PowerEdge T150 Tower Server

Operating System: Windows Server 2022 Essentials, 10CORE, FI, No Med, No CAL, Multi Language

Processor: Intel® Pentium G6505 4.2GHz, 4M Cache, 2C/4T, No Turbo (58W), 2666 MT/s

Memory Capacity: 16GB UDIMM, 3200MT/s, ECC

Hard Drives: (3) 1TB Hard Drive SATA 6Gbps 7.2K 512n 3.5in Cabled

RAID Configuration: C23 Software RAID 5 for S150 Embedded SATA

Trusted Platform Module: Trusted Platform Module 2.0 V3

Chassis Configuration: 3.5" Chassis with up to 4 Hard Drives and Software RAID



Dell Connected Smart-UPS



Input Voltage Range (Adjustable): AC 75 - 154 V

Output Voltage: AC 120 V ± 5% - 50/60 Hz

Power Capacity: 1 kW / 1440 VA

Efficiency: 98.4% at 75% Load, 97.2% at 25% Load, 98.2% at 50% Load, 98.4% at 100% Load

Recharge Time: 3 hours

Features: Audible alarm, LCD display, Automatic Voltage Regulation (AVR), LED indicators, cold-start function, automatic self-test, hot-swappable batteries, energy meter

Run Time (Up To):

7 min at full load

23 min at 500 Watts

17 min at 600 Watts

12 min at 700 Watts

10 min at 800 Watts

8 min at 900 Watts

Software



Android Studios and Blender Animation and App Development

Android Studio (Free): For Android app development; the industry standard for mobile apps

Blender (Free): Powerful 3D animation and modeling software for creating animations.

Microsoft Office Suite Accounting Software

A collection of productivity tools including Word (documents), Excel (spreadsheets/accounting), and PowerPoint (presentations).

It's professional, easy to use, and works across devices.

The lifetime license for \$40 is cost-effective for our single-user accounting needs

Microsoft 365 Business Standard Collaboration and Office Tools

(\$12.50/user/month): Includes Word, Excel, PowerPoint, Outlook, Teams, and 1TB OneDrive storage—essential for productivity and collaboration.

Bluehost Shared Hosting and Visual Studio Website Hosting and Development

Bluehost Shared Hosting (\$75/year): Affordable and reliable hosting for a business website.

Visual Studio Code (Free): A versatile integrated development environment for coding and debugging a website's backend and frontend.

Security Software

Microsoft Defender for Business is available at \$3 per user/month as part of the Microsoft 365 Business Premium plan. This plan includes advanced threat protection, device management, and security features specifically designed for small to medium-sized businesses. It's easy to use and offers automatic updates for ongoing protection.



Extra Security



Multi-Factor Authentication (MFA)

Adds an extra layer of security by requiring a second verification step, such as a mobile code or biometric scan.

Best for protecting sensitive data, email accounts, and logins to your accounting and development software.

Free for basic versions (ex: through Microsoft 365)

Server Rack

Protects physical servers and network equipment from unauthorized access or damage.

Approximately \$120 through Amazon

Verizon 1Gig Internet Plan

Fios Business Internet



- Ultra-fast, fiber-optic internet with 99.99% network reliability and high bandwidth for speedy performance
- Full-service, zero-effort and fast setup.
- \$99 Per month. Plus taxes, fees and equipment charges.

Fios Verizon Router

Function: Acts as both a modem and router for Verizon Fios.

Technology: Designed for fiber-optic internet, no separate modem required

Coverage: Provides Wi-Fi for the office and supports high-speed connections (1 Gbps).

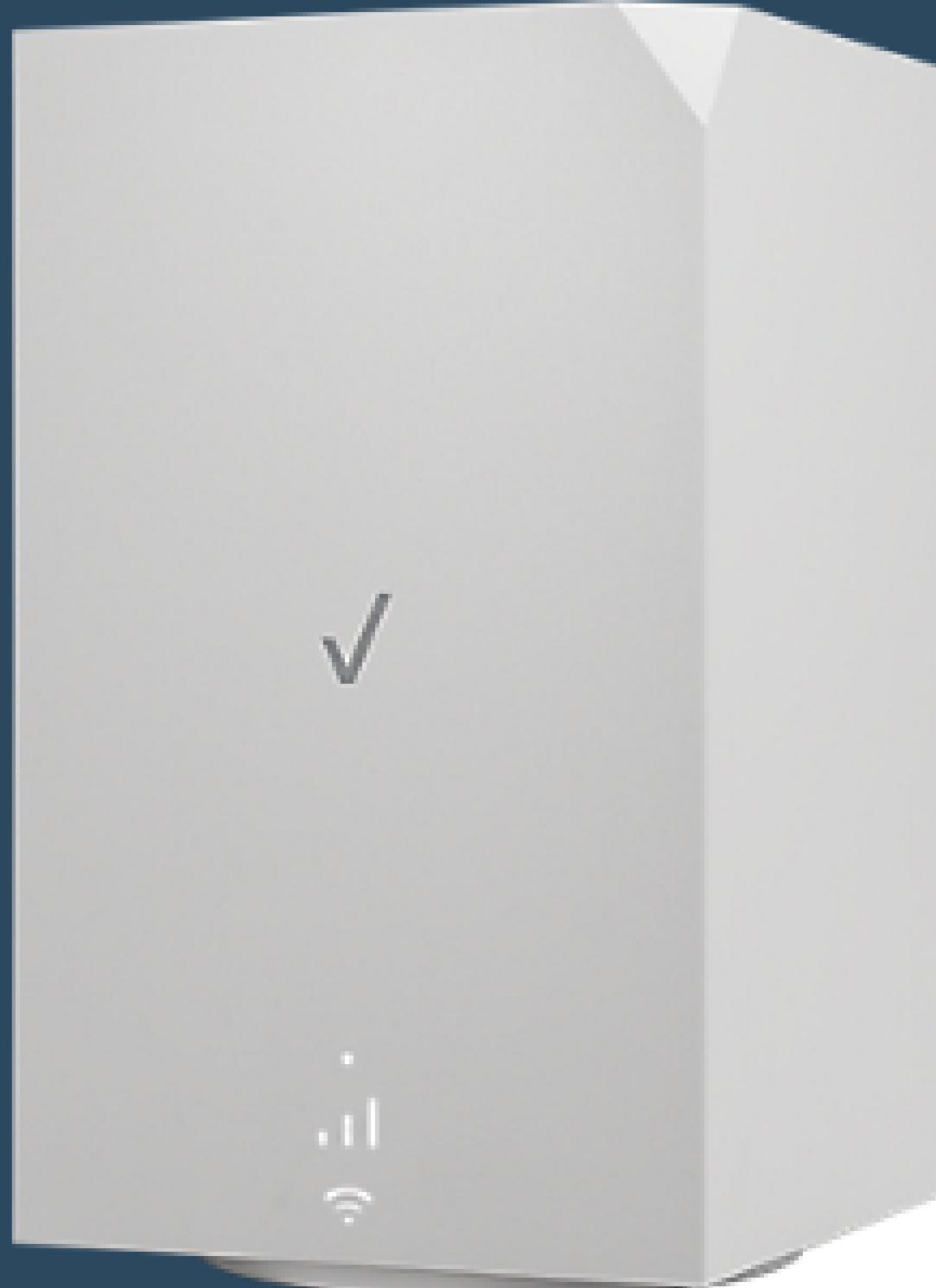
Setup: Connects to Verizon's ONT (installed by Verizon) for internet access.

Wi-Fi Standard: Wi-Fi 6 (802.11ax)

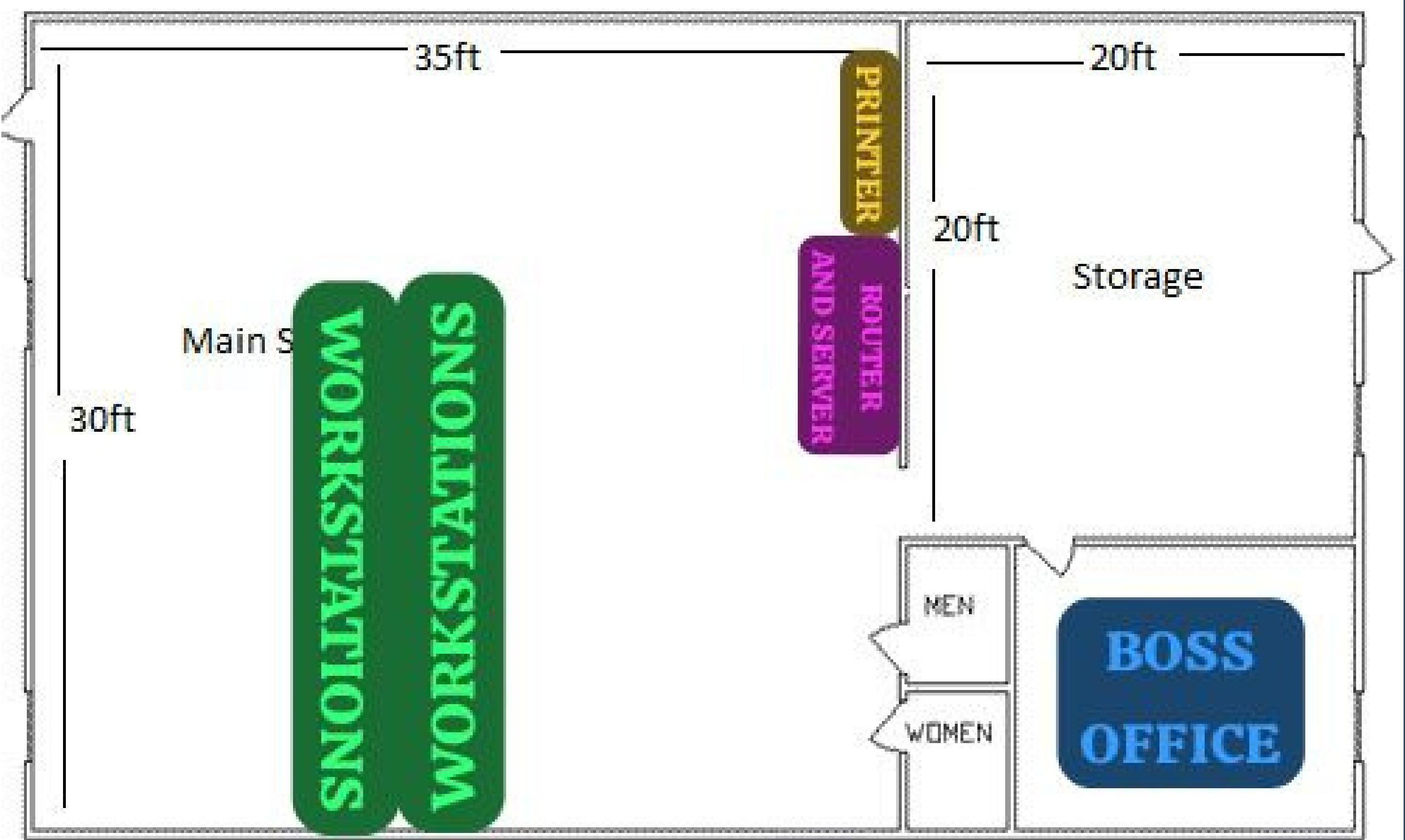
Security: Advanced encryption standards, including WPA3 for secure wireless connections, along with automatic security updates.

Dual-Band:

- 2.4 GHz for broader coverage and compatibility with older devices.
- 5 GHz for faster speeds and less interference, ideal for high-bandwidth devices



Office Plan



Estimated Prices

7 Workstations

\$8,800

7 Monitor + Wireless Keyboard and Mouse

\$700

All-in-One Printer

\$280

Tower Server with UPS

\$1,900

Accounting Software

\$40

Website Hosting

\$75/year

Collaboration and Office Tools

\$12.50/user/month

Security Software

\$3/user/month

Server Rack

\$120

Internet Plan

\$100/month

Fios Verizon Router

\$400

Labor Cost

\$1500

**Estimated Total
(Considering 7 employees)**

\$14,025