HOME LAB 101 JAMES GAMBLE - JAMES@JAMESGAMBLE.NET

WHAT IS A HOME LAB?

IT professionals, amateurs, and people who just really like computers use home labs for experimentation. They are sandbox environments where one can safely tinker with professional IT systems/applications for the purposes of education and general geekery.

USE CASES

- Blocking Ads/DNS Management
- Document Management
- File Server
- Home Automation
- Intranet
- Keeping Your Office Warm
- Learning
- Media Management/Sharing
- Network Services (Authentication, DHCP, DNS, FTP, NTP, Patch Management, Printer, SFTP)

HARDWARE

- CyberPower Surge Protectors, UPS', etc.
- Raspberry Pi Low-cost entry level home lab hardware.
- Synology Home lab in a box.
- Ubiquiti Like Meraki.... But not.

CLOUD SERVICES WITH A FREE TIER

- Action 1 Remotely manage your assets.
- Atlassian Document your crap.
- Cloudflare A WAF for the 99%.
- ImprovMX E-mail forwarding for your domain.
- NextDNS What OpenDNS should have been.
- No-IP Like DynDNS, with less greed.
- SMTP2Go Send e-mail like a boss.
- Spiceworks Inventory and Connectivity Management/Monitoring
- SpryCloud (Hosted NextCloud) Less creepy Google Docs.
- UptimeRobot Do you like alerts?

FREE(MIUM) AND OPEN SOURCE APPLICATIONS

- KDE Neon My favorite Linux distro.
- mRemoteNG Connect to all your stuff in one place.
- pfSense Secure your perimeter, with more typing...
- PRTG Monitor your home lab infrastructure. Lots of charts and graphs.
- Sophos XG Firewall Home Edition Secure your perimeter, with less typing...
- Veeam Community Edition Backups foreverrrrr...

SPECIAL PROGRAMS

- Microsoft ActionPak \$550/Year (Must be a Microsoft Partner)
- VMware VMug Advantage \$200/Year

TIPS AND TRICKS

- Browse /r/homelabs on Reddit.
- Focus on what you want to learn.
- If learning focused, spend time on industry standards (more beneficial to career).
- You don't have to spend a lot of money.
- You will fail. Rebuilding helps with confidence.