Computer Know How Series

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Cloud Services – Thursday October 13th 2016 @ 2pm

http://www.aehost.net/morpd or http://www.morpd.com

- 1) What is the Cloud?
 - a. Where is the Cloud? The Internet
 - b. What makes up the Cloud? Vendors, Hardware, Software, Services, Protocols, Security
 - c. What does the Cloud do for me? More than you think! Many everyday activities.
 - d. Are you using the Cloud? Most likely, you are using the Cloud every day.
- 2) What is a Cloud Service? A Cloud Service is any resource that is provided over the Internet.
 - Email, Web Hosting, Storage, Calendar, Apps, Streaming/VoIP (Video over Internet Protocol), Backups, VoIP (Voice over Internet Protocol), Collaboration Tools (meeting and document sharing), etc
 - b. Most anything you can run from a web browser (Edge, Internet Explorer, Chrome, Safari, Firefox).
- 3) The Basics of a Cloud Services
 - a. Devices & Network Connections Physical (wired/wireless), Protocols, Applications/Services
 - b. Vendor/Account Providers (Microsoft, Apple, Google, Yahoo, Amazon, DropBox, etc)
 - c. Provided Services (see Section 2a above)
 - d. Access & Communication Security App, Browser, etc & SSL (Secure Socket Layer) over HTTPS (HyperText Transfer Protocol Secure)
 - e. Credentials/Login (Username [email address], Password & Domain [if applicable])
 - i. Do not confuse email address login with the Account Provider and services provided.
- 4) Examples/Demos
 - a. How does Email work?
 - i. Apps (Web and Local) Webmail, Outlook, Mail (Windows or Apple), etc
 - ii. Providers/Networks of Servers Server host names and domain names
 - iii. Protocols POP3 (Post Office Protocol), IMAP4 (Internet Message Access Protocol), SMTP (Simple Mail Transfer Protocol), MAPI (Messaging Application Programming Interface), EAS (Exchange Active Sync)
 - iv. Security Username (email address), Password, Protocols over SSL (different ports)
 - b. How does a Website work?
 - i. Domain name (domain & extension) aehost.net, applicationsetc.com, google.com
 - ii. IP address (public or private) 69.62.245.158, 192.168.1.1
 - iii. Web Hosting personal/home, or commercial subscription/service
 - iv. Protocols & Access HTTP/HTTPS (HyperText Transfer Protocol Secure), FTP (File Transfer Protocol) & Web Browser and Web Editing Applications (Dreamweaver, etc)
 - c. How does Cloud Storage work? (MS Onedrive, iCloud Drive, Google Drive, Personal NAS)
 - i. Access App to view and/or sync data (website, local app)
 - ii. Hosting (personal/commercial) Server(s), Protocols (HTTP/HTTPS)
 - iii. Synchronization Each device (Desktop, Laptop, Tablet, Mobile) that is connected to a service can synchronize/access all or part of the data stored.
 - iv. Offline Access If data is synchronized to device(s) then access to that data is available when offline (not connected to the Internet).

5) Links

- a. Definition http://www.webopedia.com/TERM/C/cloud_services.html
- b. Cloud Computing https://en.wikipedia.org/wiki/Cloud computing
- c. Cloud Storage <u>www.onedrive.com</u>, <u>www.icloud.com</u>, <u>drive.google.com</u>, <u>www.dropbox.com</u>, <u>www.cubby.com</u>
- d. Backup www.mozy.com