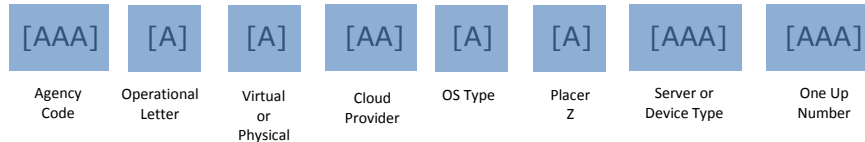# Recommendation

VITA recommends the following for a naming convention:

Character length = 15 maximum

[AAA] [A] [A] [AA] [A] [A] [AAA] [AAA]   Character field sets.

[AAA]	[A]	[A]	[AA]	[A]	[A]	[AAA]	[AAA]
Agency Code	Operational Letter	Virtual or Physical	Cloud Provider	OS Type	Placer Z	Server or Device Type	One Up Number

[156] [P] [V] [VC] [W] [Z] [APP] [026]   Sample input in set format.

156pvvcwzapp026.vita.virginia.gov   Actual sample name.

[260] [U] [P] [OT] [L] [Z] [ORC] [007]   Sample input in set format.

260upotlzorc007.vita.virginia.gov   Actual sample name.

1. Agency/Vendor Identification – Three Characters
   - Use the <u>numeric</u> agency identification code as identified in the List of Virginia State Agencies, which is kept updated. https://solutions.virginia.gov/pbreports/rdPage.aspx?rdReport=COA_Agency&ShowWebLink=True .

2. Operational Identification – Single Character
   - p   = Prod = Production
   - s   = Stage
   - u   = UAT = User Acceptance Testing
   - d   = Dev = Development
   - t   = Test
   - x   = Sandbox
   - q   = Quality Assurance

3. Physical or Virtual Identification – Single Character
   - v   = Virtual
   - p   = Physical

4. Cloud Provider – Two Characters

- aw   = AWS = Amazon Web Services
- az   = Azure = Microsoft Windows Azure
- bm   = Bare-Metal Cloud
- do   = DigitalOcean
- fc   = Force.com
- gc   = Google Cloud Platform
- ot   = Other Non-cloud
- ou   = Other Cloud (Not currently defined in the available selections.)
- oc   = Oracle Cloud
- op   = OpenStack
- sl (L)   = SoftLayer = IBM SoftLayer
- vm   = VMware vCloud Air
- vc   = VITA Private Cloud

5. Operating System Identification – Single Character
   - a   = Cisco ASA
   - b   = Mobile iOS
   - c   = Mobile Android
   - d   = Dell Storage Center
   - e   = Equalizer OS
   - f   = Embedded Firmware
   - i   = Cisco IOS
   - l   = Linux
   - m = VMWare
   - n   = Brocade Network OS
   - o   = OnTap (NetApp)
   - r   = Other (Not defined in currently available selections)
   - s   = Dell FluidFS
   - u   = Unix
   - v   = VNXe
   - w = Windows
   - x   = Force 10

6. Placer – Floating Single Character
   - z   = A generic placer letter until this character field is needed. For instance:
     - An agency may need an additional ending number because they have more than 999 servers so they would drop this Z placer, and add the additional number they need to make 1000 on up to 9999.

o An agency uses four characters in their identification instead of the predominant three characters so they would drop the Z and add the additional character to their agency identification at the front.
  ▪ This has yet to occur, but may in the future. https://solutions.virginia.gov/pbreports/rdPage.aspx?rdReport=COA_Agency&ShowWebLink=True
o Once the Z is dropped then this would inform the awareness of staff that this name is different from the majority of named servers following the standard naming convention.

7. Device Type – Three Characters
   - Act   = Active Directory Server
   - app   = Application Server
   - apl (APL) = Appliance Server
   - bck   = Backup Server
   - bls (BLS) = Blade Enclosure
   - cat   = Catalog Server
   - dab   = Database Server General
   - dir   = Directory Server (eg. Active Directory)
   - fwl   = Firewall
   - ftp   = FTP Server
   - hpv   = Hypervisor
   - irc   = IRC Server
   - lap   = Laptop
   - lin   = Linux Server General
   - mda   = Media Server (AV, Audio, Visual)
   - mob   = Mobile Server
   - mta   = Mail Server (Mail, SMTP, POP, Exchange, Transfer Agent, etc.)
   - nas   = NAS File Server
   - opn   = Open Source Server
   - orc   = Oracle Database
   - pdu   = Power Distribution Unit
   - prt   = Print Server
   - prx   = Proxy Server
   - rps   = Redundant Power Supply
   - san   = SAN Appliance
   - sql (SQL) = SQL Database Server
   - uuu   = Other Device Type (Not defined in currently available selections)
   - ble (BLE) = Blade Enclosure Switch
   - sss   = SAN specific switch

- sns   = Server/Network Switch
- unx   = Unix Server General
- ups   = Uninterruptable Power Supply
- vir   = Virtualization Server (Specifically supports virtual servers)
- win   = Windows Server General
- web   = Web Server

8. One up number – Three Characters
   a. Starting at 001 and continuing through 999.
   b. Continue the one up schema even if a prior server number is available until the number 999 is reached, then start over at any available number closest to 001 and continue back up to 999 again.

VITA does not recommend changing a server name due to this naming convention guideline alone. VITA recommends changing a server name using this guideline when the server is replaced, rebuilt/reinstalled, repurposed, or some significant change is occurring with the server.

For comments, questions, or concerns, please contact us at: EA@vita.virginia.gov