CCS DCSS spring 2016

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DIRECTOR – CCS (COLLABORATIVE COMPUTING SOLUTIONS)

20140417 REV1

Agenda

VDWS^2

Cloud brokerage

CCS Open source
◦ Existing
◦ New

Exchange update
◦ Email rate limiting
◦ Mailbox quota

Humorous picture #1

VDWS^2

All new guests will automatically be HA (highly available) in the future
◦ Existing non-HA guests will get one year grandfathered pricing (starting 7/1/16)

Migrating from SCVMM portal to new SC App Controller
◦ This will allow you to manage both local VMs and those in MS Azure cloud!

New options being developed for guests requiring higher levels of compliance requirements
◦ HIPAA (available now)
◦ ITAR/DFAR
◦ CUI NIST 800-171

New options being developed for guests that need administration of OS
◦ Flex administration (yearly charge per guest)

VDWS^2 ready by end of summer
◦ Existing guests will be contacted to schedule maintenance for migration efforts

Humorous picture #2

Cloud brokerage

Weather ahead!

Technical Advocacy
- Internal & External Customer Base

Service Options / Rightsizing
- Public In-cloud
  - Amazon, Azure, Google, ...
- Private On-prem
  - OpenStack, KVM, Xen, VMware, Hyper-V
    - UAS, CCS, HPC, departmental

Security/Compliance
- Regulation
- Interface with ITSO

Cost modeling
- Cost engineering
  - CapX vs. OpX
- Spend optimization

Licensing/Contracting
- Interface with ITA

Education/Training
- Service Catalog, Comm. group, Marketing
- Interface with ITE[2]

Humorous picture #3

CCS Open source (existing)

Existing CCS open source for your security needs

◦ Check them out
- ◦ https://virginiatech.sharepoint.com/sites/it/ccs/tools/Pages/default.aspx
- ◦ Tinyurl: **http://tinyurl.com/ze9nt9n**
- ◦ **Requires VT O365 license to access SPO**

◦ AD Password Filter
- ◦ "Adds additional password complexity constraints when users attempt to change passwords in a Windows environment."

◦ System Security Check
- ◦ "This application scans your local Windows system and provides feedback on how to resolve potential security issues."

CCS Open source (new)

PeepHole beta

◦ "A highly configurable 'distributed honeypot system' Windows Service. The user runs an installation script that asks for a list of port to be listened on by PeepHole. When a connection is made, the service drops the connection and logs the information; after a (also user-defined) number of attempts, the service blocks that IP address from the host machine for a period of time."

◦ For example, TCP 3389 (Default RDP port)

  ◦ If I brick up my front door but somebody still tries to enter through it, wouldn't you like to know?

◦ Looking for IT staff who'd like to help test the distributed components of the system

  ◦ Kick the wheels, determine lumps and bumps

  ◦ Needs basic knowledge of IPsec, TCP/IP, Netsh

  ◦ Assist ITSO identify compromised campus systems

 ◦ Email CCS to get into the beta (ccs-feedback-g@vt.edu)
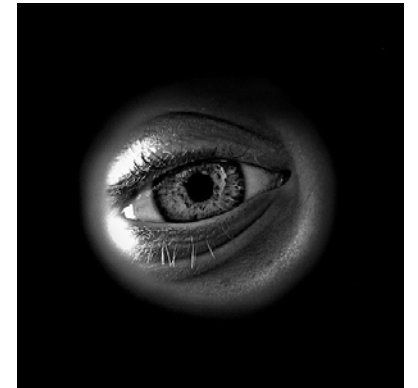
Humorous picture #4

Exchange (rate limiting)

Response to recent "blocklisting" event where VT was added to RBLs for quite a while

Since 3/23/2016
- Rate limit to 30 emails per minutes
  - Emails are queued on Exchange server side!
- Total send limit of 10k recipients per day

- More info:
- https://vt4help.service-now.com/kb_view_customer.do?sysparm_article=KB0010838
- TinyUrl: **http://tinyurl.com/goq6fz4**
- Exchange Temporary Rate Limit Bypass form available
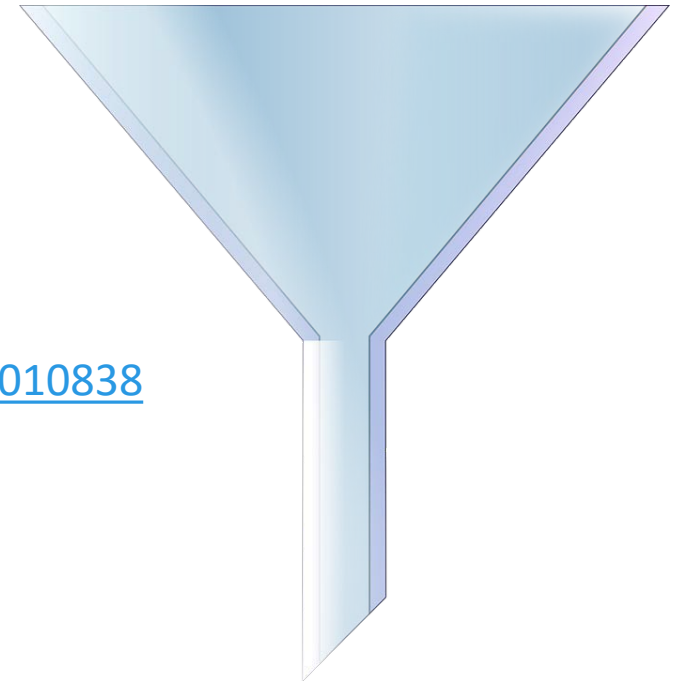
Exchange (mailbox quota)

Current default universal mailbox quota is 10 GB

Now piloting the ability for departments with managed Hokies OUs to increase this (up to 30 GB)

This applies to ALL Exchange mailboxes residing in the OU!

Pricing
- $0.06/GB/year
- Example: OU XYZ has 100 Exchange mailboxes. Upgrade from 10 to 30 GB
  - ((100 * 20) * .06) = $120 per fiscal year

How it works
- Submit query via 4help
- Identify Hokies OU and upgrade request (bump to 30 GB)
- CCS will return with a quota for the remaining fiscal year charge
- Submit ISR
- Next day – quotas increased!
- Exchange mailboxes #s in OU re-evaluated each FY
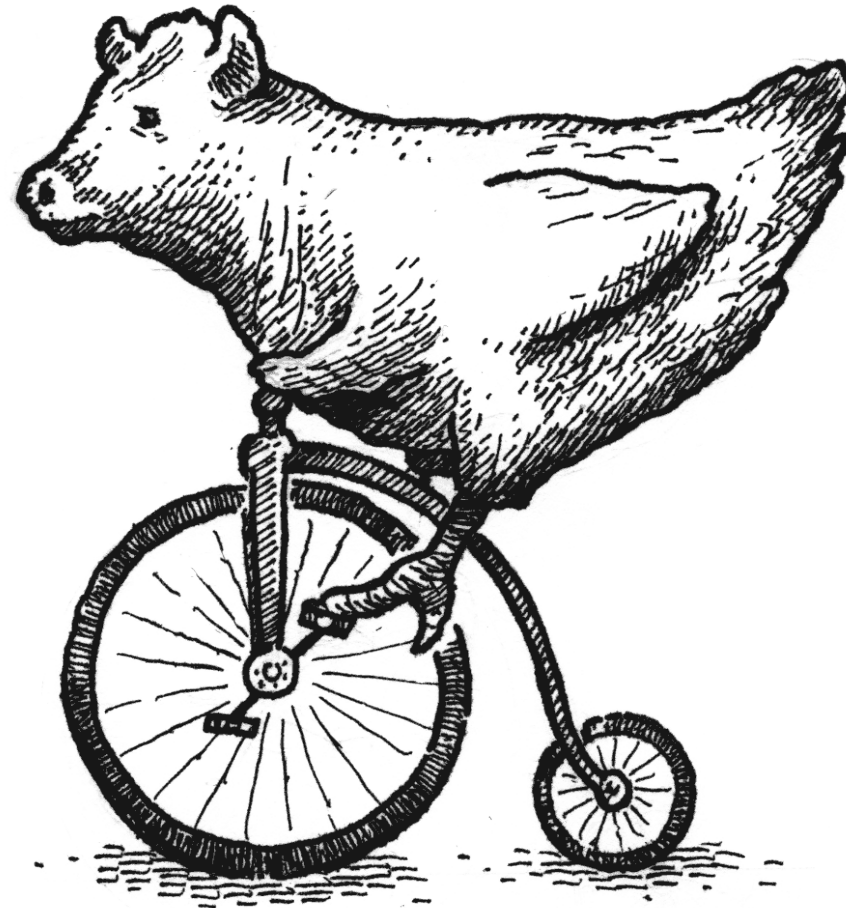
Humorous picture #5

Questions?

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