

BEST PRACTICES FOR APPROPRIATE USE OF LOGGER.

With Serguei Esquivel

Session agenda

1. Why EPS impact performance?
2. Understanding storage.
3. Backup and upgrade.
4. Certificate Management.
5. Login Methods.
6. Q&A.



Why EPS impact performance

What is an event?

9223372036854775808,-9223372036854775808,"",-9223372036854775808,-2147483648,-
2147483648,OA9S-jgBABCAJ6RNIm8-nQ==vianney-pc.americas.hpqcorp.net,275238529,-
9223372036854775808,-9223372036854775808,""/All Zones/ArcSight System/Public Address
Space Zones/Digital Equipment
Corporation,"" ,"", "5.2.4.0.0,America/Los_Angeles,3sM1R-jgBABCAAqRNIm8-
nQ==,aixauditpr_filevianney-PC,2130706433,-9223372036854775808,-
9223372036854775808,""/All Zones/ArcSight System/Private Address Space Zones/Local Network
Zones/RFC5735: IANA - Loopback (127.0.0.0-
127.255.255.255),"", "5.2.4.0.0,America/Los_Angeles,"",ArcSight,ArcSight,"",
Security
Mangement,"", ""/home/vianney/Code/Perforce/vianney-
uPC/feature/typhoon/agent/vboncorps/test/gate/data/agent/aixauditpr_file/test/aix-audit-
log.txt,"", ",-9223372036854775808,-9223372036854775808,-
9223372036854775808,"", ""

StreamHeaderTypeCounts,1SecurityEvent,614,-128,"",Operating System: [Linux 2.4.18 -
2.4.20],"",0,1113005083000,1113005083000,-9223372036854775808,"",,,,,,-
9223372036854775808,-2147483648,-2147483648,"",,,,,,-2147483648,-2147483648,-
2147483648,-2147483648,-2147483648,0,1113599506843,"",,,,,,1113005083000,"",,,,,,-
2147483648,0,1,"",,,,,,-9223372036854775808,-9223372036854775808,-
9223372036854775808,-9223372036854775808,-9223372036854775808,"",,,,,,-
9223372036854775808,-9223372036854775808,"",-9223372036854775808,-2147483648,-2147483648,m-
mzRwMBABCAClvX01HtFw==gmanlaptop,3232256026,-9223372036854775808,-9223372036854775808,"",/All
Zones/System Zones/Private Address Space/RFC1918: 192.168.0.0-
192.168.255.255,"",,,,,,3.1.0.0.0,America/Los_Angeles,3gqqzRwMBABC5vjDRib-
FqQ==,ncircle_scanner",-9223372036854775808,-9223372036854775808,-
9223372036854775808,"",,,,,,America/Los_Angeles,"",nCircle,Vulnerability
Scanner,"",,,,,,/scanner/device/uri,"",,,,,,/Site Asset Categories/Operating
System/Linux/2.4.18 - 2.4.20,"",,,,,-9223372036854775808,-9223372036854775808,-
9223372036854775808,"",,,,,doucemere.sv.arcsight.com,3232240673,-9223372036854775808,-
9223372036854775808,"",,/All Zones/System Zones/Private Address Space/RFC1918: 192.168.0.0-
192.168.255.255,"",,,,,,-2147483648,-2147483648,"",,,,,

StreamHeaderTypeCounts,1SecurityEvent,61,,,,,-128,,,,Agent [ibm_nsa584116062202] type [ibm_nsa]
started,,,,,0,1140655329093,1140655329093,1140655329175,,,,,InternalAlertSender[31CtflAkBABCs8iD
yfTk-2w==],,,,,-9223372036854775808,-2147483648,-2147483648,,,,,,-2147483648,-
2147483648,-2147483648,-2147483648,-
2147483648,1,1140655329220,/Agent/Started,Warning,,,,,1140655329093,agent:030,,,,,-
2147483648,0,1,,,,,\LResource ID="31CtflAkBABCs8iDyfTk-2w=="\G,,,,,-9223372036854775808,-
9223372036854775808,-9223372036854775808,-9223372036854775808,-
9223372036854775808,,,,,-9223372036854775808,-9223372036854775808,,,,,-
9223372036854775808,-2147483648,-2147483648,xA9blAkBABCCTpbdQMUPQ==cheddar.qa.arcsight.com,-
9223372036854775808,-9223372036854775808,-
9223372036854775808,,,,,3.5.1.3800.0,America/Los_Angeles,31CtflAkBABCs8iDyfTk-
2w==,ibm_nsacheddar.qa.arcsight.com,2130706433,-9223372036854775808,-9223372036854775808,,,,,/All
Zones/System
Zones/RFC1700,,,,,3.5.1.3800.0,America/Los_Angeles,,,,,ArcSight,ArcSight,,,,,

-
- Microsoft event: 20MB ~ 200MB
 - Cisco event: ~ 600B

Questions?



Understanding storage.

Receivers

- There is no limitation on the number or type of receivers, or its maximum throughput.
- However, adding more than 40 to 50 receivers may affect performance. A high incoming event
- rate and large event size can affect the performance of a receiver. The recommended
- maximum total events per second (EPS) incoming rate is 15K. The connectors that send events
- to the Logger may have limits on their throughput.

Events timeline

1 bar = 1 hour



Search Results

Displaying 72,978 events (Scanned: 72,978 events, 00:00:03.954)

Fields Summary	⌵	#	Event Time	globalEventId	Device	Logger	deviceVendor	deviceProduct	deviceVersion	deviceEventClassId	name	agentSeverity	baseEventCount	destinationAc
	>	1	2022/03/08 14:45:05 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	ntp:100	NTP Synchronization	1	1	127.0.0.1
	>	2	2022/03/08 14:45:05 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	ntp:100	NTP Synchronization	1	1	127.0.0.1
	>	3	2022/03/08 14:45:05 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	disk:103	Disk bytes written	1	1	127.0.0.1
	>	4	2022/03/08 14:45:05 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	disk:102	Disk bytes read	1	1	127.0.0.1
	>	5	2022/03/08 14:45:05 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	disk:103	Disk bytes written	1	1	127.0.0.1
	>	6	2022/03/08 14:45:05 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	disk:102	Disk bytes read	1	1	127.0.0.1
	>	7	2022/03/08 14:45:05 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	network:200	Number of Apache Connections	1	1	127.0.0.1
	>	8	2022/03/08 14:45:04 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	hardware:121	Battery OK	1	1	127.0.0.1
	>	9	2022/03/08 14:45:04 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	hardware:151	Temperature OK	1	1	127.0.0.1
	>	10	2022/03/08 14:45:04 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	hardware:151	Temperature OK	1	1	127.0.0.1
	>	11	2022/03/08 14:45:04 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	hardware:151	Temperature OK	1	1	127.0.0.1
	>	12	2022/03/08 14:45:04 PST	0	Logger	Local	ArcSight	Logger	7.2.0.8372.0	hardware:151	Temperature OK	1	1	127.0.0.1

```
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_10
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_11
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_12
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_13
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_14
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_15
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_16
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_17
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_18
```

Best Practices

- Set Storage Volume
- Set Storage Group
- Set Storage Rules

Questions?



Backup and Upgrade

What is a backup?

Archives / Backup Configuration

```
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_10
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_11
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_12
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_13
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_14
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_15
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_16
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_17
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_18
```

Archives:

- NFS
- SMB/CIFS

```
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_10
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_11
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_12
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_13
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_14
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_15
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_16
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_17
-rw-----. 1 arcsight arcsight 0 Mar 7 09:22 Arcsight_Data_18
```

Questions?



Certificate Management



Folder Follower receivers automatically created for receiving Logger logs are in disabled state. To start receiving these logs, enable those receivers on the [Receivers page](#).

Certificates

Add

Certificate Alias	Type	Version	Subject	Expires On	Serial Number	
actalisauthenticationrootca [jdk]	X.509	3	CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358...	Sun Sep 22 04:22:02 PDT 2030	6271844772424770508	∞ ✕
addtrustclass1ca	X.509	3	CN=AddTrust Class 1 CA Root,OU=AddTrust TTP Network...	Sat May 30 03:38:31 PDT 2020	1	∞ ✕
addtrustexternalca	X.509	3	CN=AddTrust External CA Root,OU=AddTrust External TTP...	Sat May 30 03:48:38 PDT 2020	1	∞ ✕
addtrustqualifiedca	X.509	3	CN=AddTrust Qualified CA Root,OU=AddTrust TTP Netwo...	Sat May 30 03:44:50 PDT 2020	1	∞ ✕
affirmtrustcommercialca [jdk]	X.509	3	CN=AffirmTrust Commercial,O=AffirmTrust,C=US	Tue Dec 31 06:06:06 PST 2030	8608355977964138876	∞ ✕
affirmtrustnetworkingca [jdk]	X.509	3	CN=AffirmTrust Networking,O=AffirmTrust,C=US	Tue Dec 31 06:08:24 PST 2030	8957382827206547757	∞ ✕
affirmtrustpremiumca [jdk]	X.509	3	CN=AffirmTrust Premium,O=AffirmTrust,C=US	Mon Dec 31 06:10:36 PST 2040	7893706540734352110	∞ ✕
affirmtrustpremiumeccca [jdk]	X.509	3	CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US	Mon Dec 31 06:20:24 PST 2040	8401224907861490260	∞ ✕
amazonrootca1 [jdk]	X.509	3	CN=Amazon Root CA 1,O=Amazon,C=US	Sat Jan 16 16:00:00 PST 2038	143266978916655856878034712317230054538369994	∞ ✕
amazonrootca2 [jdk]	X.509	3	CN=Amazon Root CA 2,O=Amazon,C=US	Fri May 25 17:00:00 PDT 2040	143266982885963551818349160658925006970653239	∞ ✕
amazonrootca3 [jdk]	X.509	3	CN=Amazon Root CA 3,O=Amazon,C=US	Fri May 25 17:00:00 PDT 2040	143266986699090766294700635381230934788665930	∞ ✕
amazonrootca4 [jdk]	X.509	3	CN=Amazon Root CA 4,O=Amazon,C=US	Fri May 25 17:00:00 PDT 2040	143266989758080763974105200630763877849284878	∞ ✕
baltimorecodesigningca	X.509	3	CN=Baltimore CyberTrust Code Signing Root,OU=CyberTr...	Sat May 17 16:59:00 PDT 2025	33554623	∞ ✕
baltimorecybertrustca [jdk]	X.509	3	CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimo...	Mon May 12 16:59:00 PDT 2025	33554617	∞ ✕
buypassclass2ca [jdk]	X.509	3	CN=Buypass Class 2 Root CA,O=Buypass AS-983163327...	Fri Oct 26 01:38:03 PDT 2040	2	∞ ✕
buypassclass3ca [jdk]	X.509	3	CN=Buypass Class 3 Root CA,O=Buypass AS-983163327...	Fri Oct 26 01:28:58 PDT 2040	2	∞ ✕
camerfirmachambersca [jdk]	X.509	3	CN=Chambers of Commerce Root - 2008,O=AC Camerfirma...	Sat Jul 31 05:29:50 PDT 2038	11806822484801597146	∞ ✕
camerfirmachamberscommerceca [jdk]	X.509	3	CN=Chambers of Commerce Root,OU=http://www.chamber...	Wed Sep 30 09:13:44 PDT 2037	0	∞ ✕
camerfirmachambersignca [jdk]	X.509	3	CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A...	Sat Jul 31 05:31:40 PDT 2038	14541511773111788494	∞ ✕
cert_100_hellenic_academic_and_research_institutions_roo...	X.509	3	CN=Hellenic Academic and Research Institutions RootCA 2...	Sat Jun 30 03:11:21 PDT 2040	0	∞ ✕
cert_101_hellenic_academic_and_research_institutions_ec...	X.509	3	CN=Hellenic Academic and Research Institutions ECC Roo...	Sat Jun 30 03:37:12 PDT 2040	0	∞ ✕
cert_103_ac_raiz_fnmt_rcm103	X.509	3	OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES	Mon Dec 31 16:00:00 PST 2029	485876308206448804701554682760554759	∞ ✕
cert_108_tubitak_kamu_sm_ssl_kok_sertifikasi__surum_...	X.509	3	CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU...	Sun Oct 25 01:25:55 PDT 2043	1	∞ ✕
cert_109_gdca_trustauth_r5_root109	X.509	3	CN=GDCA TrustAUTH R5 ROOT,O=GUANG DONG CE...	Mon Dec 31 07:59:59 PST 2040	9009899650740120186	∞ ✕
cert_110_trustcor_rootcert_ca_1110	X.509	3	CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Auth...	Mon Dec 31 09:23:16 PST 2029	15752444095811006489	∞ ✕

- System
 - System Locale
 - System Reboot
 - Network
 - SMTP
 - Roles
 - License & Update
 - Process Status
 - SSH
 - SNMP
- Logs
 - Audit Logs
 - Audit Forwarding
- Storage
 - Remote File Systems
 - RAID Controller
- Security
 - SSL Server Certificate
 - SSL Client Authentication
 - FIPS 140-2
- Users/Groups
 - Authentication
 - Login Banner
 - User Management
 - Change Password

SSL Settings

- Trusted Certificates
- Certificate Revocation List

Upload Certificate

The certificate file needs to be in the PEM format.

Upload File

Browse...

Upload

Certificates in Repository

Certificate Name	Start date	Expiration Date

Delete

Questions?



Login Methods

-
- Local Password
 - LDAP/LDAPS
 - RADIUS

Questions?



Q&A