

Deployment Server Reunion Tour

PLA2018



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What's this About?

Review

- DS Basics
- Client handshake
- Deployment app best practices
- Scaling

Updated Guidance

- Apps / classes
- crossServerChecksum
- More scaling

Net New(s)

- Protect content
- DS Security
- Horizontal Scaling
- Forwarder management

What's This About?

Deployment Server and Associated Functionality

- Review
 - Deployment Server basics
 - Deployment Client handshake
 - Best Practices for Deployment Apps
 - Scaling
- Updated Guidance
 - Apps / classes
 - crossServerChecksum
 - Scaling!
 - Protect Content (new!)
- Net New Functionality
 - p4sk
 - Horizontal scaling
 - Forwarder Management
 - Securing DS

Review

Reunion Tour

.conf2014 Goes to Eleven!

- The Deployment Server / Client relationship is configuration *enforcement*
 - Clients don't write their config back to the DS
 - Applications are downloaded by clients and unpack there
 - Clients keep a record of which apps they are assigned; if one is removed from their server class, the client will remove it, too.

Reunion Tour — Cont.

.conf2014 Goes to Eleven!

- The client handshake takes several steps
 - If a load balancer is between a client and the Deployment Server, sticky sessions are required
 - The symptom is that it takes ages for your Deployment Clients to phone home

Reunion Tour — Cont.

.conf2014 Goes to Eleven!

- The recommendation for creating Deployment Apps is to keep them small, and non-overlapping
 - This aids in troubleshooting
 - This promotes reusable content
 - It keeps applications focused, typically with the functionality embedded in the name
 - `mycompany_linux_forwarder_input_props`

Reunion Tour — Cont.

.conf2014 Goes to Eleven!

- Scaling of a Deployment Server used to be a chore, involving one of these:
 - Turn down the phone home interval so that a single server could manage all clients
 - Employ `crossServerChecksum` and `rcp` / `scp` to “clone” DS horizontally
 - “Tier” the Deployment Servers with one acting as a Deployment Server to Deployment Servers
 - Icky!

Any Updates?

Updates — App Guidance

Managing app counts

- In environments with high complexity, the number of Deployment Apps can grow to problematic levels
 - Consider git workflows to combine like types (e.g. all props together)
 - The number of apps can trigger issues during Cloud migration (service limits)
 - Combining inputs apps is an OK step
 - Forwarders will ignore input paths that they don't have locally

Updates — crossServerChecksum

“Set it and forget it!”

- This option was introduced when the initial scaling attempts of a single Deployment Server weren't enough
 - This keeps checksums of app content the same from server to server
 - The client handshake depends upon the checksum of the application content to determine if an update is needed
 - Prior to this option, each Deployment Server calculated its own checksum
 - Result: Confused clients
- **Recommendation:** Set this once for all new Deployment Servers, regardless of the need for horizontal scaling

Updates — Scale

- Starting with Splunk 9.2, the Deployment Server has begun a process of renovation and renewal, with some exciting things on the roadmap.
 - Deployment Servers at this version store less state in memory (instead using *event-based* recording in new indexes), and are capable of more scale.
 - This new upgraded architecture also features prominently in a new feature, discussed in the next section.

What's the News?

New — Protect Content

- The Deployment Server talk at conf2014 would have told you that content is “all or nothing”
 - When a client downloads a new version of an application, the entirety of it is replaced!
- Meet protected content:
 - `serverclass.conf` setting declares which files should be protected at the client.
 - Commonly used for the local/ subdir, and lookup tables.

New — Securing DS

- Splunk 9.0 introduced a whole new focus on security, particularly in the defaults of the platform itself.
 - It added new options for compartmentalizing functionality and securing the platform.
 - pass4SymmKey, used prominently in Indexer Clustering, is now available for communications between Deployment Client and Server
 - Docs have been vastly improved to show how mutual TLS can be enabled between clients and the Deployment Server to ensure that only trusted content is delivered.

New — Scale Made Easy

- New Feature - Horizontal Scaling
 - Needs NFS share
 - Needs either Load Balancer or DNS aliasing
- Make sure you forward data
 - Queries that used to be in memory (REST) are now *event-based* searches
- Forwarder Management UI aggregates log events for easy review

New — Forwarder Management Made Easy

- The Forwarder Management UI has undergone a major upgrade
 - Instead of being REST based queries against memory state, these are now event-based searches
 - Coming soon is the ability to manage other types of agents (e.g. OTel collectors) as well as Universal Forwarders

Thank you

