

Jim Pickel, IBM

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2021 NA Dh2 Tech Conference r Culo Fit

New Announcement

DDZ AITOT Z/US -

Distributed Connection Control

Session #6322 z/OS

Agenda

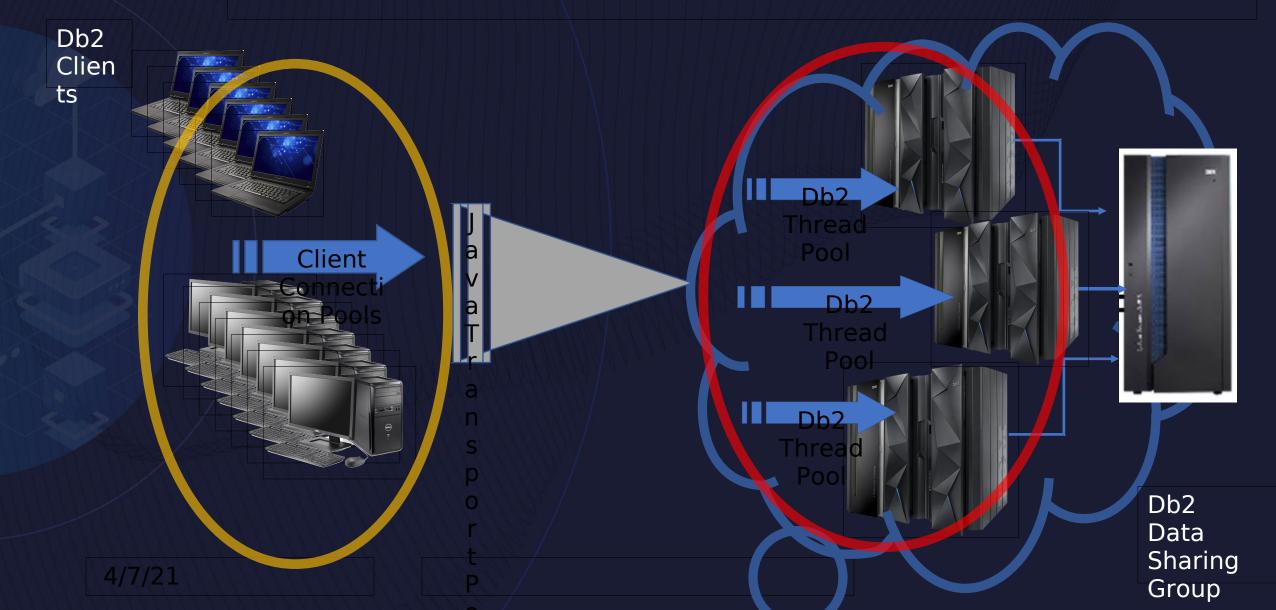
- Db2zAI "Distributed Connection Control" introduction
- Db2z connection and thread pooling strategy
- · Db2z monitoring of connections and threads
- · Db2zAI learning about distributed workloads
- · Db2zAI generating profiles to protect your system
- · Db2zAI "Distributed Connection Control" demo

Db2zAI "Distributed Connection Control" introduction

Help you allocate, monitor, and adjust connections and threads for inbound distributed connections across your Db2 groups and subsystems

- When connection or thread usage exceeds a defined threshold, Db2ZAI issues an alert and provides historical statistical data that helps you determine the correct course of action
- Db2ZAI regulates connection and thread requests when available resources are approaching maximum capacity
- · Capabilities drastically reduce the chance that a single

Db2z connection and thread pooling strategy



Db2z monitoring of connection and thread using profiles

The role of profiles

- Profiles enable you to monitor and control various aspects of your Db2 subsystems
- · Each set of profiles contain the criteria and thresholds that are used to monitor and control connection and thread usage per member:

MONITOR CONNECTIONS WARNING EXCEPTION

Db2zAl learning about your distributed workloads

- Db2 distributed location statistics are automatically collected when Db2ZAI is started.
- CONDBAT and MAXDBAT subsystem parameters are the input to the training process
 - During the training process, Db2ZAI analyzes this information and creates recommended profiles based on its workload analysis
 - To ensure that Db2ZAI can create the most accurate profiles possible, conduct training on all available statistics including your peak work times
- At the conclusion of the training process,
 Db2ZAI creates the following information for each IP address that it analyzes

Db2zAl learning about your distributed workloads

- · For each static IP address, a set of profiles are generated
 - Warning profile for connections and for threads which alerts you when an IP address consumes more connections than it did during the training period
 - Exception profile for connections and for threads that regulate the assignment of new connections and threads when other applications could be impacted due to the current MAXDBAT and CONDBAT limits
- · For dynamic IP addresses, a set of profiles are generated
 - · Warning profile for all connections and for all

Db2zAl Distributed Connection Control Alerts

- When a connection exceeds its warning threshold, an informational alert is generated.
 - This alert does not affect incoming work. When a connection exceeds its exception threshold, an alert is generated, and connections are rejected until connections fall below the threshold
- When a connection requests a thread to execute SQL that exceeds its warning threshold, an informational alert is generated.
 - · This alert does not affect incoming work.
- · When a request on a connection for a thread is received that

Db2zAI "Distributed Connection Control" demo

Demo

Speaker: Jim Pickel

Company: IBM

Email Address: pickel@us.ibm.com

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