

ifadm – Vortrag IUG 2015

ifadm Studio und ifadm Forms

- ifadm Studio
 - Werkzeug zur Administration der Informix Datenbankserver und Datenbanken
 - Ressourcenüberwachung
 - Ereignisüberwachung (Alerts)
 - Failback-Technologie
- ifadm Forms
 - Maskenverwaltung analog zu ISQL

ifadm Studio und Forms

The screenshot displays the ifadm Studio web interface in a browser window. The address bar shows 'localhost/ifadm.html'. The interface includes a navigation menu on the left with categories like Databases, Storage, Sessions, Virtual Processors, Memory Pools, Logs, SqlTrace, Reports, E/R Diagrams, and Agent. The main content area shows the configuration for the 'weidi8_soc' Informix Server. The 'General' tab is active, displaying connection details and server status.

weidi8_soc
Informix Server

General Profile Logical Logs ONCONFIG Message Log Segments License Info

Connection

Server:	weidi8_soc
Host:	*:15260
Version:	IBM Informix Dynamic Server Version 11.70.FC4
Machine:	x86_64
OS:	Darwin Kernel Version 12.5.0

Server Status

Server Type:	IBM Informix Dynamic Server
Boot Time:	2015-10-18 10:48:21
Reset Time:	2015-10-18 10:48:21
Up Time:	2 days 23 hours 1 min
Sessions:	2
Max Users:	35
OS Total Memory:	8.00GB
OS Free Memory:	160.89MB
IDS Total Memory:	1.04GB
IDS Free Memory:	434.82MB
# of CPUs:	8
Agent:	Stopped

Administration DB-Server

- Verwaltung von DB-Spaces und Chunks
 - Anlegen, Ändern, Löschen
 - DB-Objektanzeige
- Logical Logs
 - Anlegen, Ändern, Löschen
- Storage-Pool Verwaltung

Logical Log Übersicht

The screenshot shows the ifadm Studio interface for an Informix Server named 'weidi8_soc'. The 'Logical Logs' tab is selected, displaying a table of log entries. The table includes columns for log ID, fill time, unique ID, chunk, offset, size, used space, DBSpace, percentage used, and status. The status column contains green checkmarks and a trash icon. The interface also features a sidebar with navigation options like Databases, Storage, Sessions, and Logs, and a top navigation bar with tabs for General, Profile, Logical Logs, ONCONFIG, Message Log, Segments, and License Info.

weidi8_soc
Informix Server

General Profile Logical Logs ONCONFIG Message Log Segments License Info

Refresh Add Switch

#	Fill Time	Unique Id	Chunk	Offset	Size	Used	DBSpace	%Used	Used	Current	BackedUp	New	Archived	Temp	Dropped
1	07-10 14:00	1119	1	12763	2500	2500	rootdbs	100	✓		✓				
9	01-01 01:00	1120	9	3420	50000	31373	rootdbs	62.75	✓	✓					
2	06-10 08:50	1112	1	15263	2500	2500	rootdbs	100	✓		✓				
3	06-12 19:05	1113	1	17763	2500	2500	rootdbs	100	✓		✓				
4	06-16 15:10	1114	1	20263	2500	2500	rootdbs	100	✓		✓				
5	06-25 13:01	1115	1	22763	2500	2500	rootdbs	100	✓		✓				
6	07-05 12:02	1116	1	25263	2500	2500	rootdbs	100	✓		✓				
7	07-07 14:03	1117	1	27763	2500	2500	rootdbs	100	✓		✓				
8	07-07 19:03	1118	1	30263	2500	2500	rootdbs	100	✓		✓				

<< < 1 > >> Go to page: 1 Row count: 10 Showing 1-9 of 9

Storage Verwaltung

ifadm Studio

localhost/ifadm.html

Admin

weidi8_soc

Storage Information

General Monitoring Fragmentation

Name	Size	Free	Pg Size	Space	Used	Chunk 1st#	Create Sz	Extend Sz	Mirrored
rootdbs	2.19GB - 575000pg	417184pg	4kb	Regular	27.44%	1/2	10	10000	
s0	976.56MB - 233425pg	173074pg	4kb	SmartBlob	25.85%	2/1	10	0	
dbs1	1.9GB - 500000pg	446296pg	4kb	Regular	10.74%	3/1	10	10000	
dbsgross	312.5MB - 20000pg	19889pg	16kb	Regular	0.55%	4/1	10	10000	
tempdbs1	1.9GB - 500000pg	499939pg	4kb	Temp	0.01%	5/1	10	10000	
blobsp1	390.62MB - 12500pg	12496pg	32kb	Blob	0.03%	6/1	10	0	
tempdbs2	488.28MB - 62500pg	62447pg	8kb	Temp	0.08%	7/1	10	10000	
dbsg	195.31MB - 25000pg	24365pg	8kb	Regular	2.54%	8/1	10	10000	

Pathname	Number	DbSpace	Total Size	Total pg	Free pg	%Usage	Online
/Users/informix/chunks/chunk1	1	rootdbs	292.96MB	75000	1818	97.57%	✓
/Users/informix/chunks/chunk2	2	s0	976.56MB	233425	173074	25.85%	✓
/Users/informix/chunks/chunk3	3	dbs1	1.9GB	500000	446296	10.74%	✓
/Users/informix/chunks/chunk4	4	dbsgross	312.5MB	20000	19889	0.55%	✓
/Users/informix/chunks/chunk5	5	tempdbs1	1.9GB	500000	499939	0.01%	✓
/Users/informix/chunks/chunk6	6	blobsp1	390.62MB	12500	12496	0.03%	✓
/Users/informix/chunks/chunk7	7	tempdbs2	488.28MB	62500	62447	0.08%	✓
/Users/informix/chunks/chunk8	8	dbsg	195.31MB	25000	24365	2.54%	✓
/Users/informix/chunks/chunk9	9	rootdbs	1.9GB	500000	415366	16.92%	✓

<< < 1 > >> Go to page: 1 Row count: 25 Showing 1-9 of 9

localhost/ifadm.html#Z030

Storage Verwaltung

The screenshot shows the ifadm Studio interface for managing the 'weidi8_soc' database. The left sidebar displays a tree view of the database structure, including 'Databases', 'Storage', 'Spaces', 'Chunks', 'Storage Pool', 'Recovery Logs', 'Sessions', 'Virtual Processors', 'Memory Pools', 'Logs', 'SqlTrace', 'Reports', 'E/R Diagrams', and 'Agent'. The 'Spaces' folder is expanded, and a context menu is open over it, showing options like 'Properties', 'New', 'Filter', 'Visualize DBSpaces', and 'Refresh'. The main area displays a table of database objects with columns for 'Object', 'Size', 'Extents', and 'Type'. The table lists various objects, including tables and indexes, with their respective sizes and extent counts.

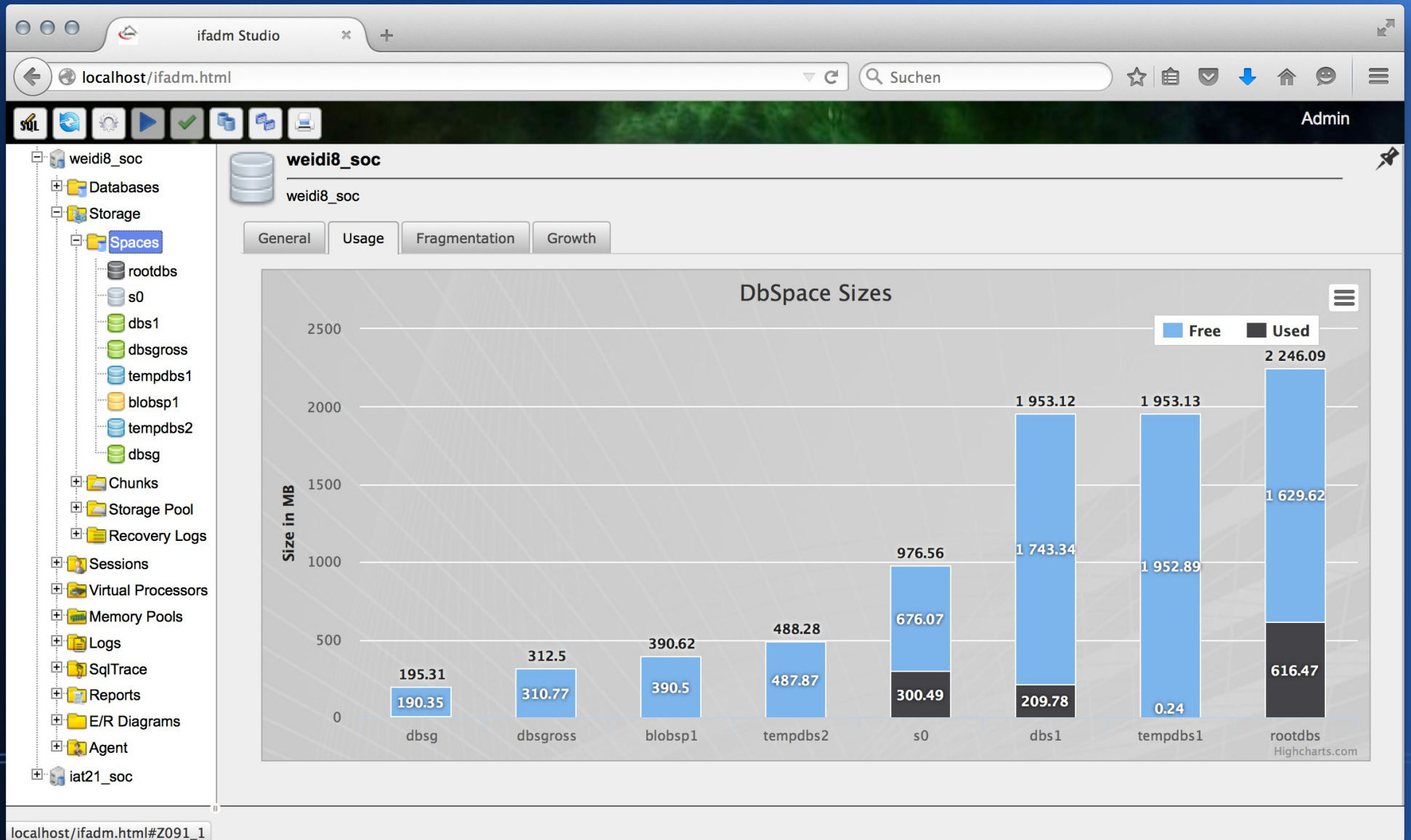
Object	Size	Extents	Type
th_overflow_0xffffffffffff	88	11	Table
ad_idx01	4	1	Index
ad_idx02	4	1	Index
ad_idx03	4	1	Index
ad_idx04	4	1	Index
ad_idx05	4	1	Index
ar_idx01	4	1	Index
ar_idx02	4	1	Index
ar_idx03	7	1	Index
au_idx01	4	1	Index
au_idx02	5	1	Index
au_idx03	4	1	Index
au_idx04	4	1	Index
aup_idx01	5	1	Index
aup_idx02	6	1	Index
aup_idx03	4	1	Index
erwin	8	1	Table
g1	8	1	Table
i_artikelkonto_2	4	1	Index
i_artikelkonto_3	4	1	Index

Event:Z09 UI: 0.

Administration DB-Server

- Ressourcenübersicht
 - Storage
 - Sessions
 - Sperren
 - Temporäre Objekte
 - Memory Pools
 - Virtuelle Prozessoren
 - Logical Logs

Db-Space Usage



Memory Usage

The screenshot shows the ifadm Studio interface for monitoring the memory usage of the 'weidi8_soc' instance. The browser address bar shows 'localhost/ifadm.html'. The main panel displays the following summary:

Memory Usage
Total Free Size: 0.38GB | Total Used Size: 0.66GB | Total Memory: 1.04GB

Memory Pools

Name	Class	Used Blocks	Free Blocks	Session	Connected since
resident	Resident	53263616	4864	0	
res-buff0	Resident	409619712	4864	0	
res-buff1	Resident	40979712	4864	0	
res-buff3	Resident	81939712	4864	0	
global	Virtual	21124896	8493280	0	
env_vars	Virtual	57792	3648	0	
afpool	Virtual	4016	8272	0	
mt	Virtual	3728056	101704	0	
proxyWrite	Virtual	46296	2856	0	
smartblob	Virtual	9880	6504	0	
sbtlist	Virtual	13280	7200	0	
sb_delq	Virtual	40400	8752	0	
sb_delundoq	Virtual	40400	8752	0	
sb_loheader	Virtual	276096	6528	0	
sb_arcspace	Virtual	6440	1752	0	
rsam	Virtual	16713032	27320	0	
aio	Virtual	2295856	128976	0	
compr cache	Virtual	4184	4008	0	

Chunk Usage

The screenshot shows the ifadm Studio interface. On the left is a tree view of the database structure for 'weidi8_soc', with 'Chunks' expanded to show nine individual chunks. The main panel displays 'weidi8_soc' and 'Chunk #1'. Below this are tabs for 'General', 'DB-Objects', and 'Logical Logs'. The 'General' tab is active, showing 'Extent Detail' selected. A table lists the usage of various tables and indexes across the chunks.

Table/Index	Database	Chunk	Offset	Size	Partnum	Type
TBLSpace	rootdbs	1	13	250	1048577	Partition Table
sysdatabases	sysmaster	1	32763	4	1048578	Index
syslicenseinfo	system	1	32767	16	1048579	Table
systables	sysmaster	1	32783	8	1048580	System Table
syscolumns	sysmaster	1	32791	16	1048581	System Table
sysindices	sysmaster	1	32807	64	1048582	System Table
systabauth	sysmaster	1	32871	8	1048583	System Table
syscolauth	sysmaster	1	32879	8	1048584	System Table
sysviews	sysmaster	1	32887	8	1048585	System Table
sysusers	sysmaster	1	32895	8	1048586	System Table
sysdepend	sysmaster	1	32903	8	1048587	System Table
sysssynonyms	sysmaster	1	32911	8	1048588	System Table
sysssyntable	sysmaster	1	32919	8	1048589	System Table
sysconstraints	sysmaster	1	32927	8	1048590	System Table
sysreferences	sysmaster	1	32935	8	1048591	System Table
syschecks	sysmaster	1	32943	8	1048592	System Table
sysdefaults	sysmaster	1	32951	8	1048593	System Table
syscoldepend	sysmaster	1	32959	8	1048594	System Table

Administration Datenbanken

- Verwaltung von DB-Objekten
- Regelung der Benutzerrechte
- Erstellung von Update Statistics
- DB-Diff
- Generierung von Testdaten
- Kopieren von DB-Objekten

Verwaltung von DB-Objekten

- Erstellen, Ändern und Löschen von
 - Datenbanken
 - Tabellen und Indizes
 - Sequences
 - Views
- Visualisierung der Objekte

Verwaltung von Datenbanken

The screenshot shows the ifadm Studio web interface. The browser address bar displays 'localhost/ifadm.html'. The interface includes a navigation menu on the left with icons for SQL, Home, Settings, Run, Check, Copy, and Print. The main content area is divided into two sections: a tree view on the left and a details panel on the right.

Tree View (Left):

- weidi8_soc
 - Databases
 - abc
 - Routines (SPL)
 - fx_s_ck_zi_zispread(char,decimal)
 - Routines (External)
 - Tables
 - System Tables
 - External Tables
 - Indexes
 - Constraints
 - Views
 - Triggers
 - Datatypes
 - Synonyms
 - Sequences
 - Failbacks
 - Security
 - E/R Diagrams
 - baan4
 - berta
 - f1
 - f2
 - gruppenrechte
 - quenter

Details Panel (Right):

weidi8_soc
abc@weidi8_soc

General | Statistics

Database

Database:	abc
Owner:	informix
Created:	17.02.2014
Logging:	with log
NLS:	No
Case sensitive:	No
Used Size:	4.98MB
Allocated Size:	3.03MB

25 table(s) retrieved

Verwaltung von Tabellen

The screenshot shows the ifadm Studio interface. On the left, a tree view shows the database structure: weidi8_soc > Databases > abc > Tables > erwin. The main panel displays the configuration for the 'erwin' table.

erwin
Database abc@weidi8_soc

General | Design | Storage | SQL | Data | Permissions | Dependencies

Table Profile

Name:	erwin	Indexes:	0	Type:	T	Row Size:	34	Created:	2015-05-06
Owner:	stefanweideneder	Columns:	3	Size:	2pg - 8KB	# of rows:	1	Stats Updated:	2015-10-18

Storage Summary

		Size:		%	
		Allocated:			
DBSpace:	dbs1	8pg-32KB		100.00	
	First:	Next:	Total:	Used:	
				2pg-8KB	75.00
Extents:	32	32	1	Free:	6pg-24KB
					25.00

0 constraints(s) retrieved

Regelung der Benutzerrechte

- Anzeige aller User, Roles, Mapped User
- Anzeige der explizit vergebenen und implizit geerbten Rechte
- Anlage neuer User und Roles
- Generierung der zugehörigen SQL-Befehle

Regelung der Benutzerrechte

The screenshot shows the ifadm Studio interface. The browser address bar displays 'localhost/ifadm.html'. The top right corner shows the user 'Admin'. The left sidebar contains a tree view of database objects, with 'Security' expanded to show 'Users'. The main area displays the user 'weidi8_soc' for 'pool_02' and a table of user permissions.

User	Database Permission	Default Role
a000110	CONNECT	dmspfcfachadmin
a000112	CONNECT	dmsfachadmin
a000132	CONNECT	dmsrechinfo
a000202	CONNECT	dmszahlwpinfo
a000299	CONNECT	
a000311	CONNECT	dmsriskfach
a000350	CONNECT	
a000397	CONNECT	dmsfachadmin
a000443	CONNECT	dmsriskfach
a000445	CONNECT	
a000611	CONNECT	dmsrechinfo
a000849	CONNECT	
a000872	CONNECT	dmspfcfach
a000886	CONNECT	dmskredfach
a001077	CONNECT	
a001270	CONNECT	
a001426	CONNECT	dmspfcfach
a001511	CONNECT	dmszahlwpinfo
a001589	CONNECT	dmszahlabwinfo
a001692	CONNECT	dmsfachadmin
a001728	CONNECT	dmsfachadmin

Regelung der Benutzerrechte

The screenshot shows the ifadm Studio interface. The browser address bar displays 'localhost/ifadm.html'. The main window title is 'weidi8_soc' with a subtitle 'Database: pool_02 User: a000110'. The 'General' tab is active, showing a table of permissions for the user 'a000110'. The table columns are Name, Owner, Insert, Update, Select, Alter, Delete, Index, Execute, Grantable, and Special. The 'Display' dropdown is set to 'Inherited', 'Permissions for' is 'Any', 'User Permission level' is 'Connect', and 'Default role' is 'dmspfachadmin'. The table lists various database objects like 'bbk_dt_200', 'beispiel1', 'beispiel2', and a series of 'bsp_st' objects, with their respective owners and permissions.

1 database privilege retrieved

Erstellung von Update Statistics

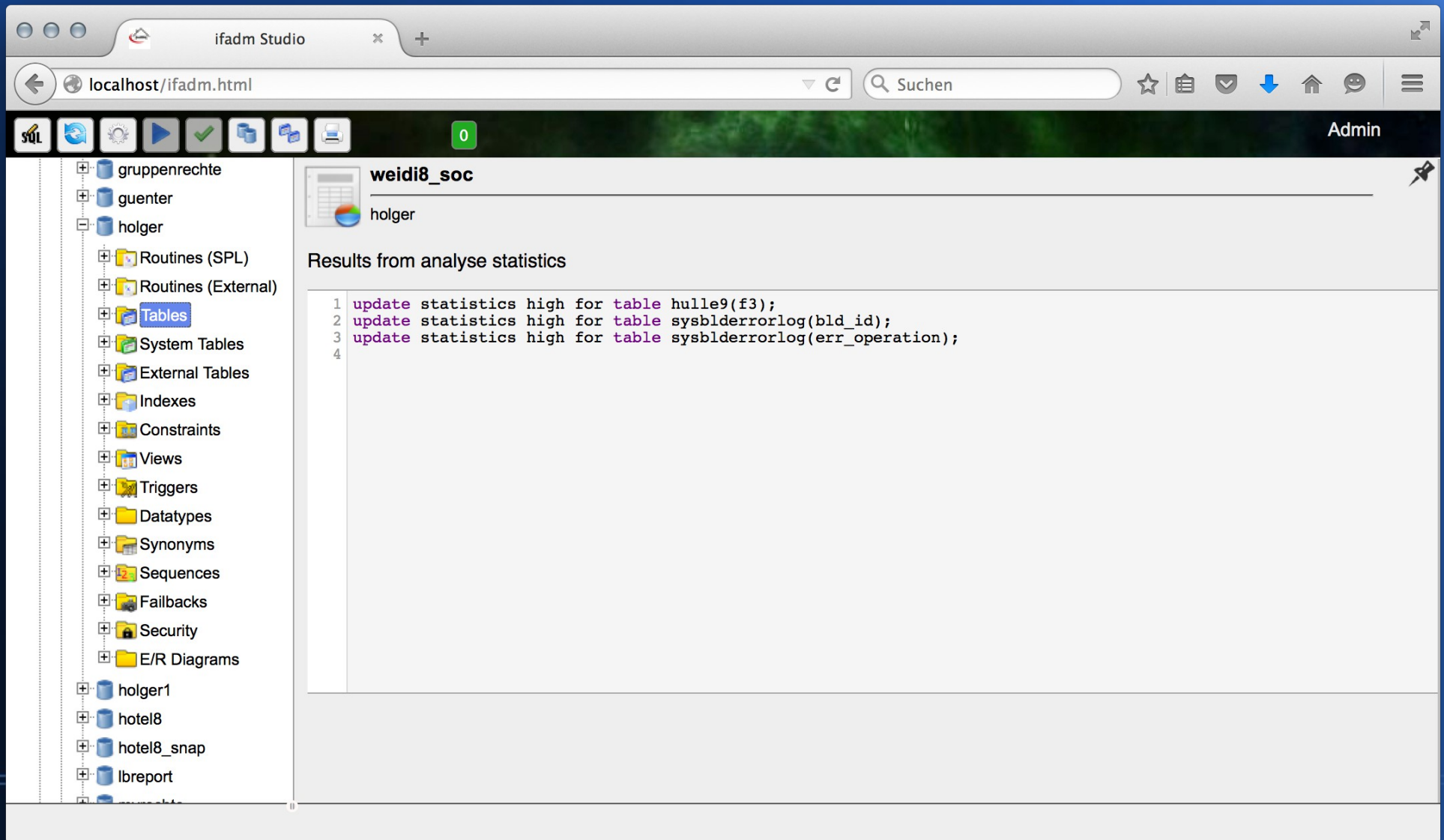
- Erstellen einfacher Low Statistics
- Nachfahren vorhandener Distributions
- Vorschläge entsprechend der tatsächlichen Werteverteilung

Erstellung von Update Statistics

The screenshot shows the ifadm Studio interface. The browser address bar displays 'localhost/ifadm.html'. The top right corner shows 'Admin' and a search bar with 'Suchen'. The left sidebar contains a tree view of database objects, including 'gruppenrechte', 'guenter', 'holger', 'Routines (SPL)', 'Routines (External)', 'Tables', 'System', 'External', 'Index', 'Constraints', 'Views', 'Triggers', 'Data', 'Synonyms', 'Sequences', 'Failures', 'Security', and 'E/R Diagrams'. The main area displays the 'weidi8_soc' database with user 'holger@weidi8_soc'. A table list is shown with columns: Tablename, Owner, UpdStat., Rowsize, Cols, Idx, Locktype, Rows, Extents, UsedPg, TotalPg, Created, and Fragments. A context menu is open over the table list, with 'Update Statistics' selected. The 'Update Statistics' menu has three sub-options: 'Low', 'Distributions', and 'Evaluate'. The table list contains the following data:

Tablename	Owner	UpdStat.	Rowsize	Cols	Idx	Locktype	Rows	Extents	UsedPg	TotalPg	Created	Fragments
freigabe_anforderungen	stefanweideneder	2015-08-19 11:03	156	3	0	R	10	1	2	8	16.04.2015	1
hhh	stefanweideneder	2015-07-20 11:09	2000	1	0	R	1710	1	856	896	16.04.2015	1
	stefanweideneder	2015-07-20 11:09	40	2	1	R	119279	1	1298	1408	16.04.2015	1
	stefanweideneder	2015-07-20 11:09	61	3	0	R	4599	1	43	64	16.04.2015	1
	stefanweideneder	2015-07-20 11:09	28	3	0	R	0	0	0	0	23.04.2015	1
	stefanweideneder	2015-07-20 11:09	12	3	1	R	8070	1	33	64	09.07.2015	1
log	informix	2015-07-20 11:09	4240	6	0	R	209	1	29	32	16.04.2015	1
cts	informix	2015-07-20 11:09	32626	19	0	R	0	1	1	497	16.04.2015	1
	stefanweideneder	2015-07-20 11:09	64	1	1	R	0	1	1	8	16.04.2015	1
	stefanweideneder	2015-07-20 11:09	5270	30	0	R	0	1	1	8	16.04.2015	1
	stefanweideneder	2015-07-20 11:09	4	1	0	R	0	1	1	8	16.04.2015	1
	root	2015-07-20 11:09	24	2	0	R	83	1	2	8	16.04.2015	1
	root	2015-07-20 11:09	4	1	0	R	0	1	1	8	16.04.2015	1
	stefanweideneder	2015-07-20 11:09	4	1	0	R	0	3	3	24	09.07.2015	3
xtz	stefanweideneder	2015-07-20 11:09	4	1	0	R	0	0	0	0	22.04.2015	1

Erstellung von Update Statistics



The screenshot shows the ifadm Studio web interface. The browser address bar displays 'localhost/ifadm.html'. The user is logged in as 'Admin' and is viewing the 'weidi8_soc' database. The left sidebar shows a tree view of database objects, with 'Tables' selected. The main content area displays 'Results from analyse statistics' with the following SQL commands:

```
1 update statistics high for table hulle9(f3);
2 update statistics high for table sysblderrorlog(bld_id);
3 update statistics high for table sysblderrorlog(err_operation);
4
```

DB - Diff

- Anzeige der Differenzen zwischen den Schemata verschiedener DB-Objekte
- Erzeugen der Alter / Drop / Rename – Anweisungen zur Aufhebung der Deltas

Kopieren von DB-Objekten

- Kopieren ganzer Datenbanken oder einzelner Tabellen
- Implizite Reorganisation der DB-Objekte
- Selektive und parallele Datenübernahme
- Automatische Extent-Kalkulation
- User / DB-Space / Synonym Mapping
- Materialisierung von Views

Ressourcenüberwachung

- Je DB-Server Instanz läuft ein *ifadmagent* Service
- Sammelt Ressourcen Ist-Werte und speichert sie in der *sysifadm* Datenbank für Capacity Reports und administrative Auswertungen
- Initiiert jede Minute Systemüberwachungsfunktionen

Ressourcenüberwachung

localhost/ifadm.html

Admin

weidi8_soc
Informix Server

General Configuration Alerts Agent Log

Refresh Add

Name	Last Call	Procedure	avg(exectime)	Executions	Status	Action	Low	High
Alert: Check BlobSpaces	2015-09-22 15:06:00	checkblobspaces	0.001172sec	52104	OK	sendmail	0	0
Alert: Check DbSpaces	2015-09-22 15:06:00	checkdbspaces	0.001166sec	52104	OK	sendmail	20	10
Alert: Check Extents	2015-09-22 15:06:00	checkextents	0.004752sec	52104	OK	sendmail	40	80
Alert: Check TempSpaces	2015-09-22 15:06:00	checktempspaces	0.000791sec	52103	OK	sendmail	10	5
Alert: Check simultaneous locks	2015-09-22 15:06:00	checksimlocks	0.004776sec	52104	OK	sendmail	10000	1000000
Alert: Log Backup	2015-09-22 15:06:00	logbackup	0.000528sec	52103	OK	sendmail	3	6
Alert: Pages Fragment	2015-09-22 15:06:00	pageperfragment	0.112576sec	52103	OK	sendmail	0	0

<< < 1 > >> Go to page: 1 Row count: 20 Showing 1-7 of 7

localhost/ifadm.html#Z082_1

Ereignisüberwachung

- Fest definierte Funktionen überwachen die freien Kapazitäten der DB-Spaces, Extents, Shared Memory, Logical Logs
- Weitere benutzerspezifische Funktionen frei definierbar
- Schwellenwerte für jede Funktion einstellbar
- Mail und / oder sms Warnung bei Überschreiten der Schwellenwerte

Failback-Technologie

- Erstellt einen DB-Snapshot
 - DB-Schema wird in *sysifadm* gesichert
 - Snapshot Datenbank wird erstellt
 - Delta Records werden mittels CDC API in Snapshot Datenbank gespeichert
 - Snapshot DB ist frei von Rechten
- Rücksicherung kompensiert Aufzeichnungen

Verfügbarkeit

- Das ifadm Studion wird ab Ende QT 4/2015 für die OS Systeme Solaris, AIX, Linux und MAC OS X verfügbar sein
- ifadm Studio läuft testweise auch auf Raspberry PI 2

ifadm Forms

- Besteht aus
 - Maskengenerator
 - Maskencompiler
 - ifadm Webservice
- Benötigt einen Webserver
- Maskenlayout entspricht ISQL-Masken

Erweiterungen gegenüber ISQL

- Mehrere Tabellen können gleichzeitig aktiv sein
- Detail Tables (Parent / Child)
- Einstieg mittels vordefiniertem Filter möglich
- Kein Zugriff über rowid wenn unique index vorhanden

Maskenerzeugung

- `iffrmbld -g -d dbname -t tab1 -t tab2 maske.per`
 - Erstellt die Maske in ASCII Code
- `iffrmbld -c maske.per`
 - Übersetzt die Maske in Binärform
 - Verifiziert Joins und prüft, ob Inserts möglich
- Maske kann manuell angepasst werden

Maskenerzeugung

- `iffrmbld -g -d dbname -t tab1 -t tab2 maske.per`
 - Erstellt die Maske in ASCII Code
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 - Übersetzt die Maske in Binärform
 - Verifiziert Joins und prüft, ob Inserts möglich
- Maske kann manuell angepasst werden

Maskenanpassung

```
database abc
screen size 16 by 132
{
  Auftragsnummer [f00002 ]      Kunde   [f00029   ]
  Auftragsdatum  [f00004 ]      Firma   [f00013   ]
  ]
  Lieferdatum    [f00005 ]      [f00014   ]
  Strasse        [f00015   ]
  Ort            [f02] [f00021] [f00027 ]
  Bearbeiter     [f00037 ]
  ]
  [f00038   ] Telefon [f001][f00023]/[f00033 ]
  [f00040   ] Kontakt [f00030 ] [f00031   ] [f00035 ]
  ]
  [f00009 ]
  Bestellung
  [f00007
  ]
}
tables
  auftraege
  ap = auftragspos
  adressen
  orte
  ortsdaten
  laender
  kunden
  mitarbeiter
  artikel
  company = adressen
attributes
f00002 = auftraege.au_nummer;
f00004 = auftraege.au_datum, datepicker, default = today;
f00005 = auftraege.au_lieferdatum, datepicker;
f00007 = detailtable
      allowing input
      select
          ap.aup_posnr "Pos",
          artikel.ar_nummer "ArtikelNr",
          artikel.ar_bezeichnung "Bezeichnung",
          ap.aup_menge "Menge",
          artikel.ar_einheit "Einheit",
          artikel.ar_preis "Einzelpreis"
      ;
f00013 = adressen.ad_name1;
f00014 = adressen.ad_name2;
"../forms/auftrag.per" 69L, 2426C
```

Starten der Maske

- Erstellen einer HTML-Seite

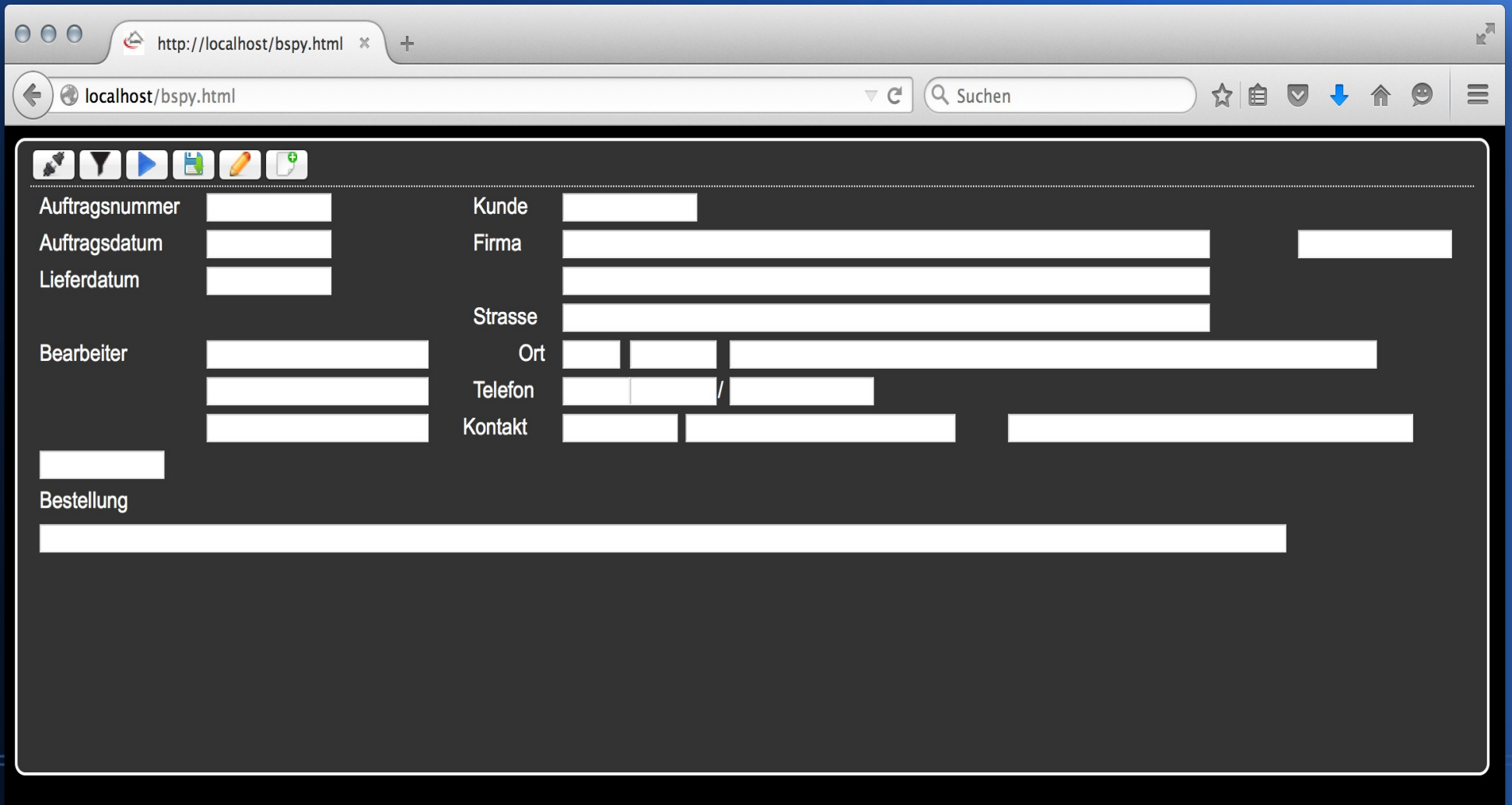
- Einbinden der ifadm .js und .css Bibliotheken
- Integration zweier Javascript Befehle

```
var handle = new isql( 'id' : 'id1', 'filter' : 'wherecondition');  
handle.open({ 'form' : maske, 'user' : name, 'password' : xx })
```

Integration in HTML Datei

```
Downloads — vim — 109x38
bash vim bash ...
<html>
  <head>
    <link rel="stylesheet" href="/ifadm/isql.css"/>
    <script src="/ifadm/js/jquery-1.11.3.js"></script>
    <script src="/ifadm/isql.js"></script>
    <style>
      #id1 {
        background-color: #333;
        color: white;
        border-radius: 8px;
        border: 2px solid;
      }
    </style>
    <script>
      function PgInit(){
        var con_handler = new isql({
          "id" : "id1",
          "api": "/ifadm/bin/ifadm.api",
          "filter" : "au_nr > 1",
          "timeout" : 5
        });
        con_handler.open({
          "form" : "auftrag",
          "user" : "stefanweideneder",
          "password" : "&nichtismaer",
          "database" : "abc",
          "server" : "weidi8_soc",
          "toolbox" : [ "connect", "query", "save", "run", "update", "new", "close" ]
        });
        isql_invisible( "f3" );
      }
    </script>
  </head>
  <body onload="PgInit();" bgcolor="black">
    <div id='id1'></div>
  </body>
```

Aufruf über Webbrowser



The image shows a web browser window with the address bar displaying "http://localhost/bspy.html". The browser's address bar also shows "localhost/bspy.html" and a search bar with the text "Suchen". The main content area of the browser displays a form with the following fields:

Auftragsnummer	<input type="text"/>	Kunde	<input type="text"/>
Auftragsdatum	<input type="text"/>	Firma	<input type="text"/>
Lieferdatum	<input type="text"/>		<input type="text"/>
		Strasse	<input type="text"/>
Bearbeiter	<input type="text"/>	Ort	<input type="text"/>
	<input type="text"/>	Telefon	<input type="text"/>
	<input type="text"/>	Kontakt	<input type="text"/>
	<input type="text"/>		<input type="text"/>
Bestellung	<input type="text"/>		

Verfügbarkeit

- ifadm Studio und ifadm Forms sind Ende QT4 2015 verfügbar
- Unterstützte Betriebssysteme:
 - Solaris
 - AIX
 - HP-UX
 - MAC OS X
 - Linux (auch auf 32Bit Raspberry)

Ende

Vielen Dank für Ihr Interesse

