



I.P.S.

Intelligent Process Solutions

IPS-SYSTEMS™ & IT Security

Aspects and starting points

IPS-SYSTEMS™ & IT-Security

Aspects and starting points

- ☞ New Encryptionfeature in IPS-ENERGY™ 1.90
- ☞ User accounts in IPS-SYSTEMS™
- ☞ IPS User Management within the Active Directory
- ☞ Fail Safe, Failover
- ☞ Safe synchronisation in non trusted networks



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Aspects and starting points

📌 New Encryptionfeature in IPS-ENERGY™ 1.90



IPS-Database

	D1	D2	D3	D4	D5
1	Value1	Value1	Value1	Value1	Value1
2	Value2	NULL	Value2	Value2	Value2
3	Value3	NULL	Value3	Value3	Value3
4	Value4	NULL	Value4	Value4	Value4
5	Value5	NULL	Value5	Value5	Value5







	id	username	cln	aes
	1	user1	D2	FGS34#4543
	2	user1	D3	FGS34#4543
	3	user2	D2	DESWSWW
	4	user3	D3	NURTZZUU
▶*	NULL	NULL	NULL	NULL

↑
Encrypted with a user-specific public AES encryption key

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Aspects and starting points

User accounts in IPS-SYSTEMS™

-  special access rights for administration
-  separate administration module
-  Authentication possible via Domain Accounts or IPS-Accounts
-  Group based policies
-  Group based Access management
-  Encrypted password storage

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Aspects and starting points



User accounts in IPS-SYSTEMS™

New User Account

New User

Enter New User name and Domain to give him a permission to application.

User Name

Authentication

Windows Authentication

Domain

Application Authentication

Password

Mail Server Port

User Accounts

File

Users Groups Functions

Available Groups

List Of Available Groups

	Group Name	Description
▶	IPSE-RELEX Users	Users for I
2	Power Users	Power Use
3	SWM-General	SWM-Gen
4	RELEX Users	For Setting
5	EPIS	
6	CORE	
7	SWM-Setter	SWM-Sette
8	AWT Service Personal	AWT Servi
9	SWM-Tester	SWM-Test
10	generation supervisor	Generation
11	IPSE-ENTERPRISE Users	Users for I
12	Administrators	Application
13	generation operation	Generation

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User Accounts

Group Information Members Functions

IPSE-RELEX Users

Available Functions

- /Asset/Add
- /Asset/Delete
- /Asset/Edit
- /Asset/Edit/EditAssetName
- /Asset/GoogleMapsView
- /Asset/Verification
- /Asset/Verification/AssetManagement
- /CustomPropDefEdit
- /CustomPropDefEdit/EnableDisable
- /FormulaManager/Usage
- /FormulaManager/UsageAssignment
- /GlobalOption/Formula
- /GlobalOption/Mail
- /GlobalOption/Paging
- /GlobalOption/SCN

Name

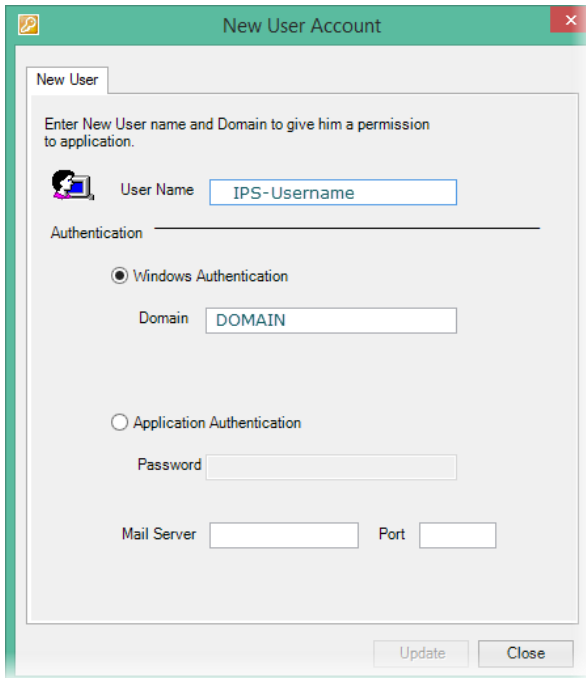
Description



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Aspects and starting points

IPS User management withing the Active Directory - IPS vs. Domain Accounts



New User Account

New User

Enter New User name and Domain to give him a permission to application.

User Name

Authentication

Windows Authentication

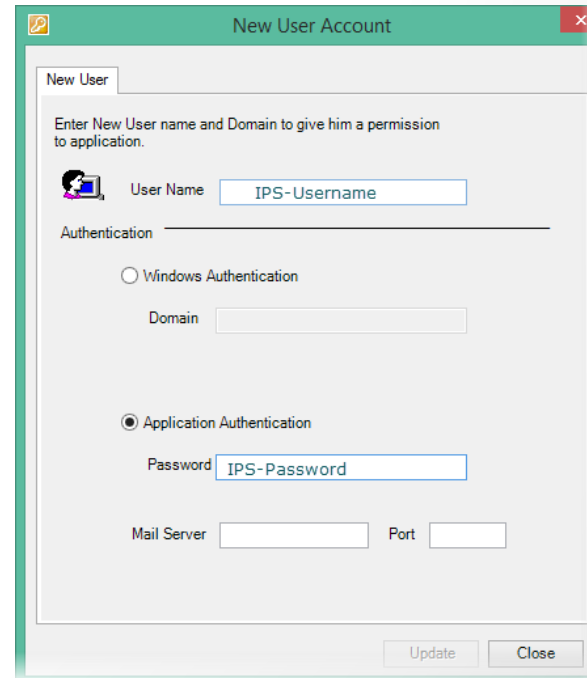
Domain

Application Authentication

Password

Mail Server Port

Update Close



New User Account

New User

Enter New User name and Domain to give him a permission to application.

User Name

Authentication

Windows Authentication

Domain

Application Authentication

Password

Mail Server Port

Update Close

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Aspects and starting points

IPS User management withing the Active Directory - Service Accounts

SQL Server (MSSQLSERVER)	Provides ...	Running	Automatic	IPSHQ\patpit00
SQL Server Agent (MSSQLSERVER)	Executes ...		Manual	IPSHQ\patpit00
SQL Server Browser	Provides ...		Disabled	Local Service
SQL Server VSS Writer	Provides ...	Running	Automatic	Local System
SSDP Discovery	Discover...	Running	Manual	Local Service

- Active Directory Service Accounts can be used to control services
- No other domain accounts with administrative rights necessary
- Safety and access rights can be easily adjusted

Fail-Safe, Failover

-  What means fail-safe/failover?
-  Hardware based fail-safe
-  Software based fail-safe
-  Does the investment makes sense for me?

Fail-safe, Failover – What means Fail-safe, Failover?

“Fail-safe and fail-secure are similar but distinct concepts. Fail-safe means that a device will not endanger lives or properties when it fails. Fail-secure means that access or data will not fall into the wrong hands in a failure. Sometimes the approaches suggest opposite solutions. For example, if a building catches fire, fail-safe systems would unlock doors to ensure quick escape and allow firefighters inside, while fail-secure would lock doors to prevent unauthorized access to the building.”

 redundant system architecture through the whole system

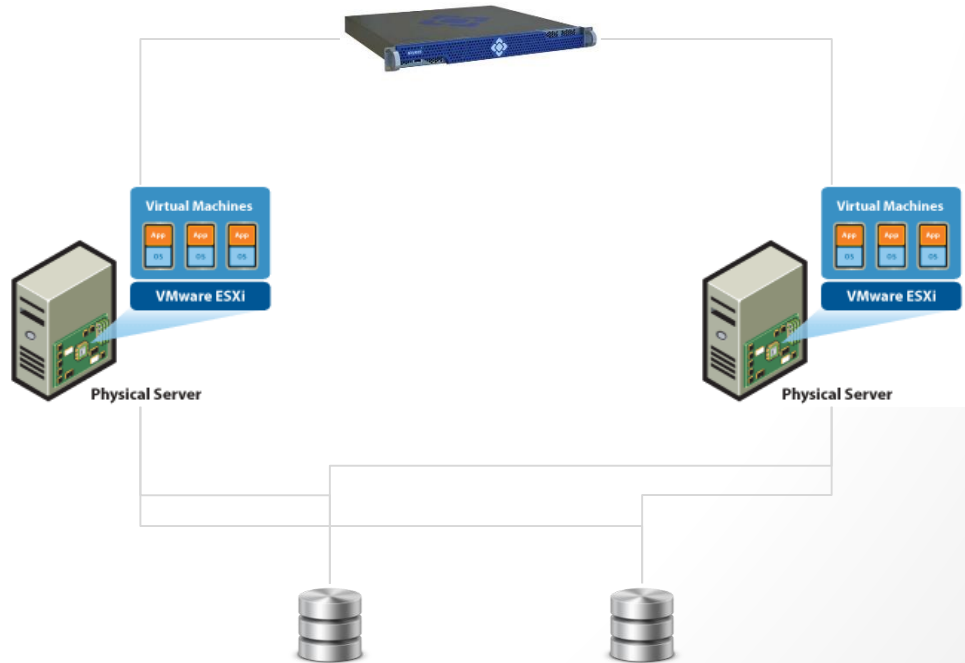
 Intelligent system monitoring

 Detect errors before they happen

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Aspects and starting points

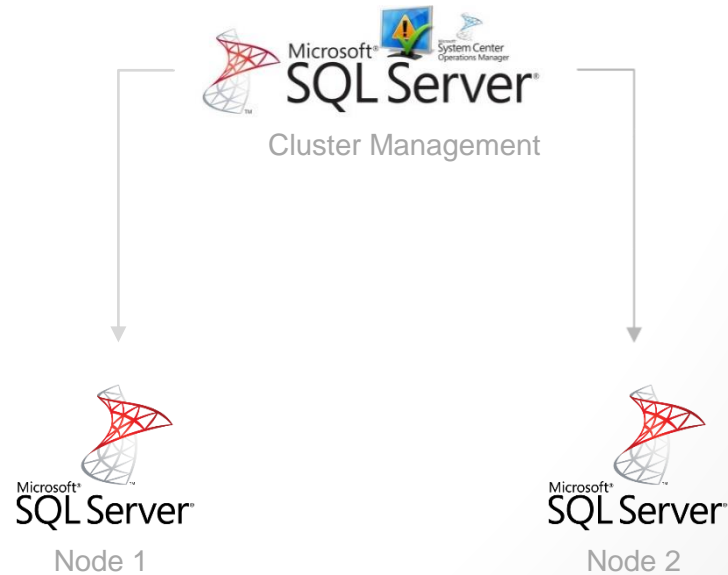
- ☞ Fail-safe, Failover – Hardware based Fail-safe, Failover



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Aspects and starting points

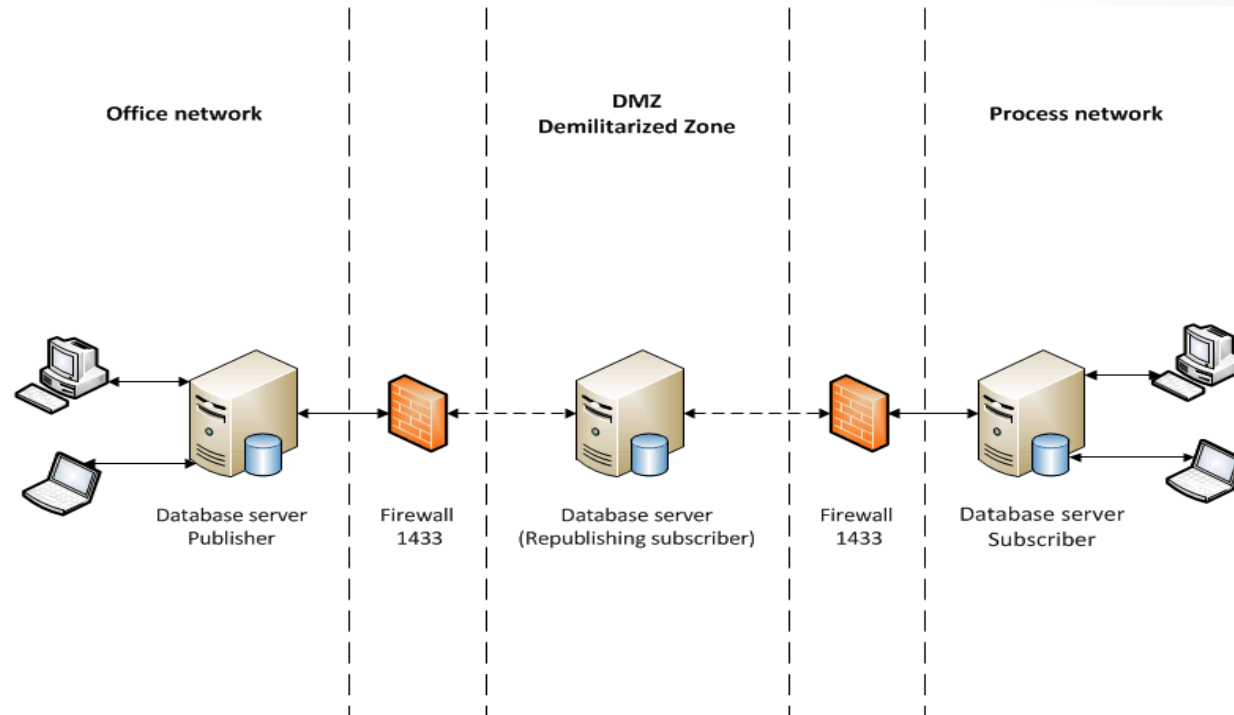
- ☑ Fail-safe, Failover – Software based Fail-safe, Failover



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Aspects and starting points

Safe synchronisation in non trusted networks



Thank you very much for your attention

For more information, please visit
www.ips-energy.com

