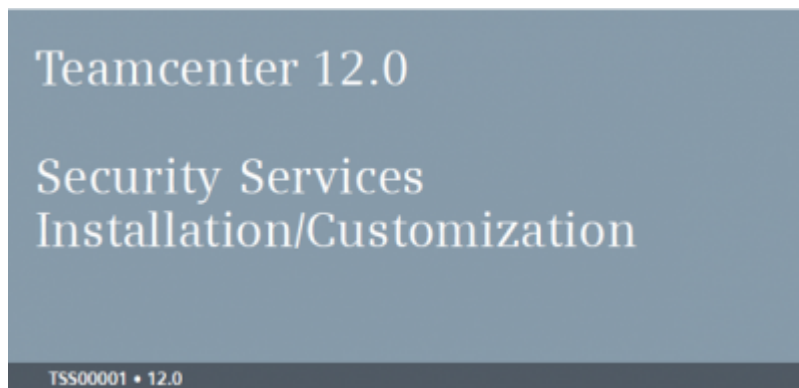


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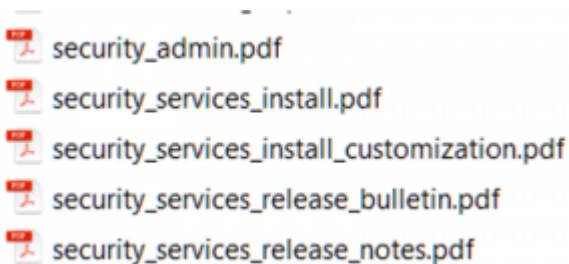
Handbuch Tc 12 Security Services



Oktober 2020 Patrick Granwehr Christoph Bühler

**Achtung:**

Dies ist nur ein Leitfaden. Bitte zusätzlich noch die originalen Dokumente mit einbeziehen...



Impressum

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Tel.: +41 71 737 99 22



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1. Vorbedingungen Clientinstallation

Wenn Umgebung schon so aufgesetzt ist muss nur noch die Anpassung für SSO gemacht werden.

Ist weiter unten beschrieben.

Dies kann auch später mit der SSO konfiguration nach der web_tier konfiguration gemacht werden.

2. 4-tier Client installation auf tccs umstellen

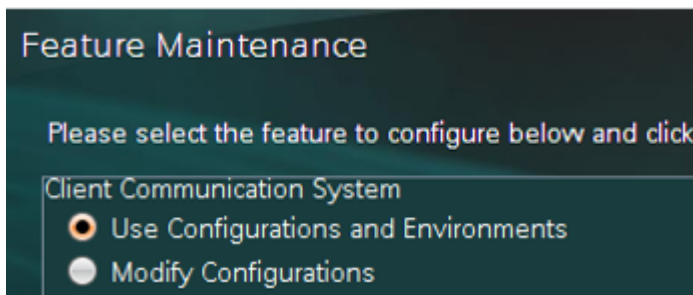
Dieser Schritt ist nur notwendig, falls dieser nicht schon bei Grundinstallation des 4-tier RichClient gemacht wurde.

2.1 Feature Maintenance

Client Communication System Use configurations and Environments



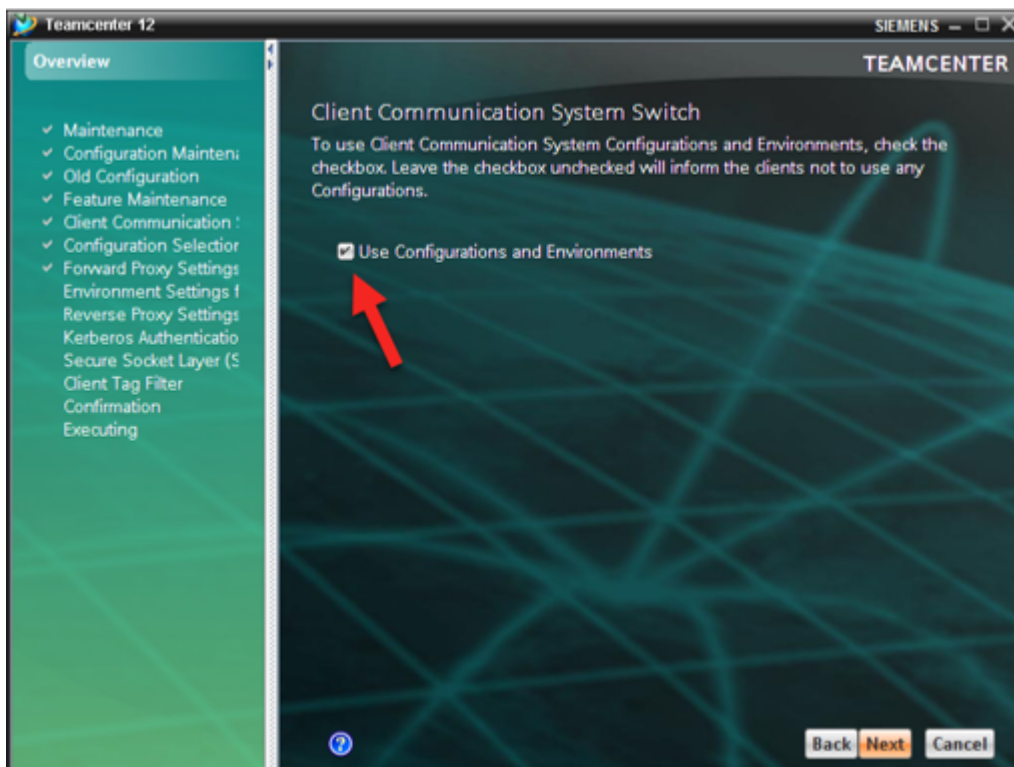
Use configurations and Environments



2.2 Client Communication System Switch



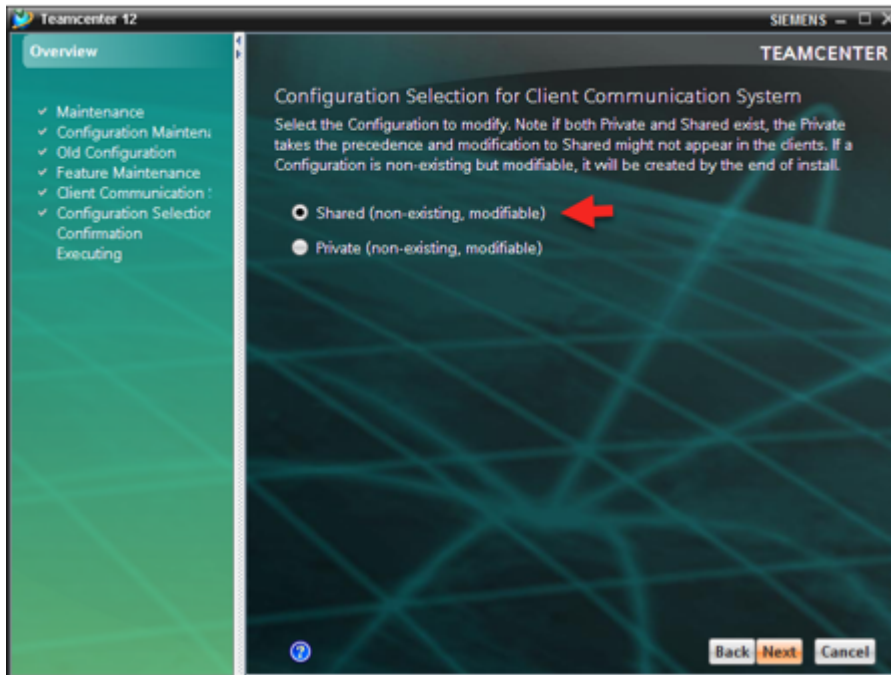
Use Configuration and Environments



2.3 Configuration Selection for Client Communication System



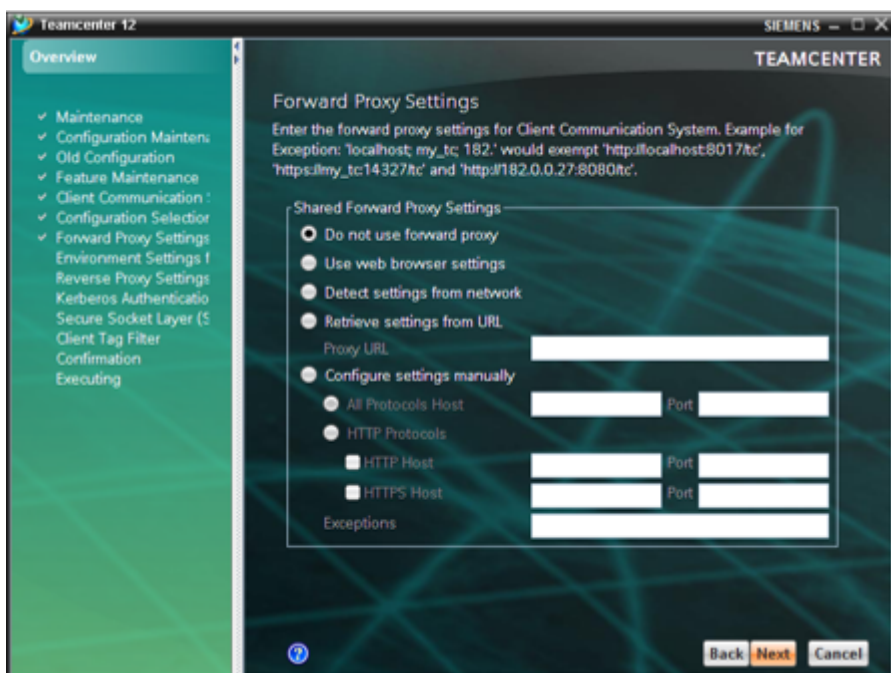
Shared (non-existing, modifiable)



2.4 Forward Proxy Settings



Do not use forward proxy



2.5 Environment Settings for Client Communication System

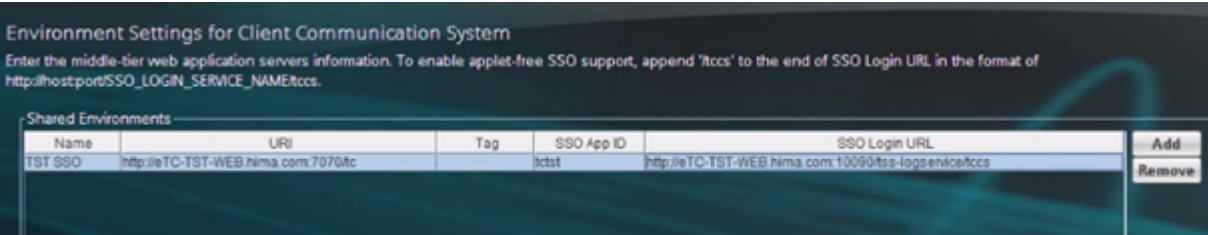
Add...

- Name: tcprod
- URI: <http://avademo14:7070/tc>
- Tag:
- SSO App ID:
- SSO Login URL:



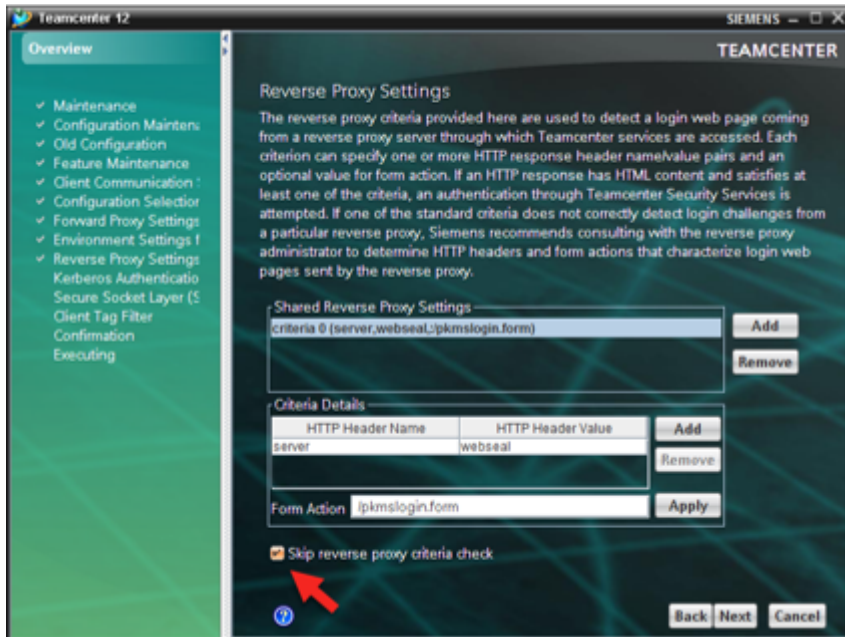
Add...

- Name: TST SSO
- URI: <http://eTC-TST-WEB.hima.com:7070/tc>
- Tag:
- SSO App ID: tctst
- SSO Login URL: <http://eTC-TST-WEB.hima.com:10090/tss-logservice/tccs>



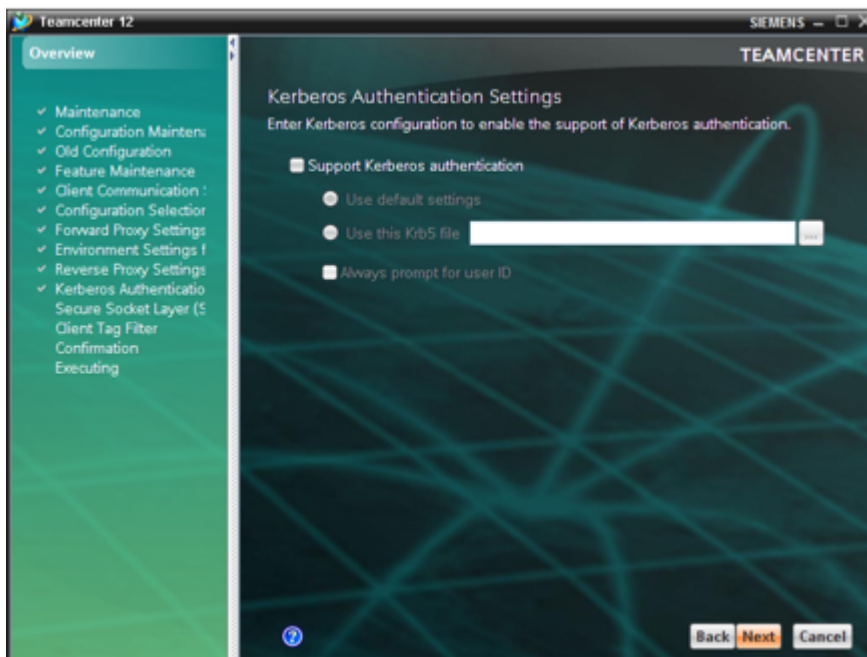
2.6 Reverse Proxy Settings

- ☒ Skip reverse proxy criteria check



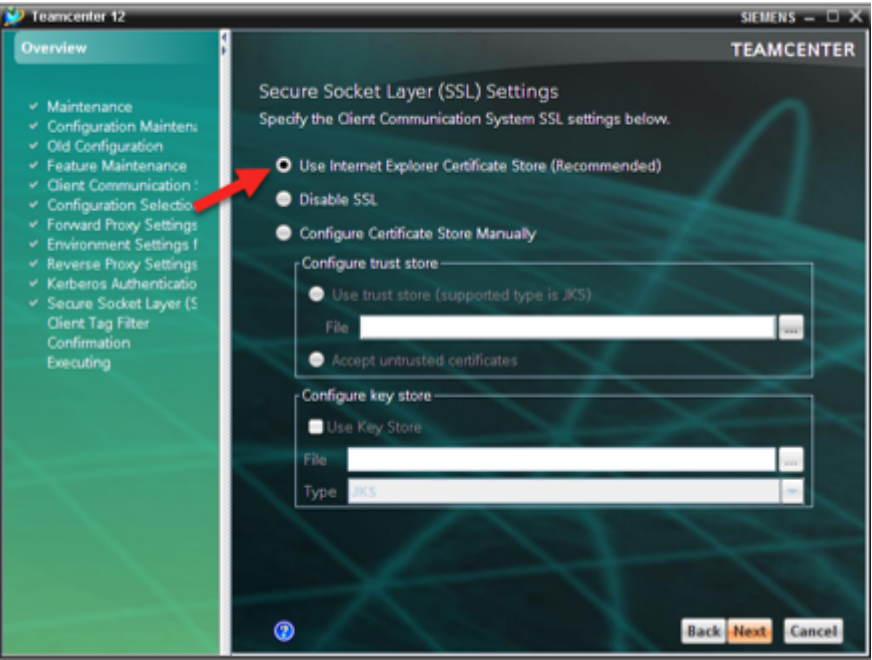
2.6 Kerberos Authentication Settings

Next...



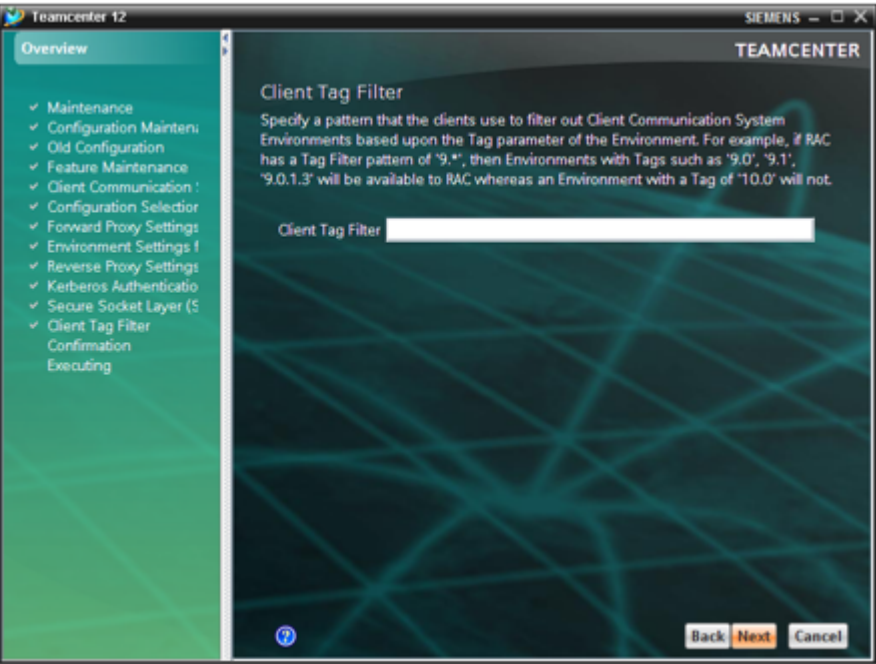
2.7 Secure Socket Layer (SSL) Settings

-  Use Internet Explorer Certificate Store (Recommended)

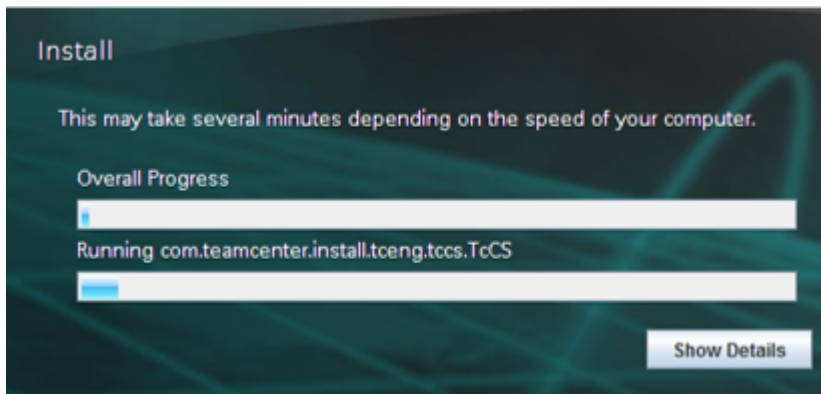
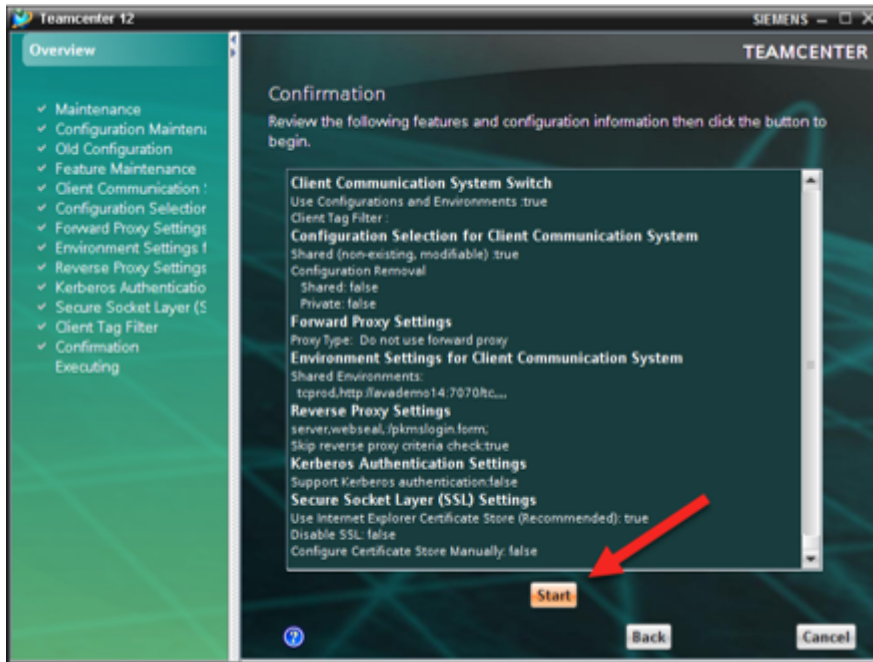


2.8 Client Tag Filter

Next...



Confirmation



close

2.9 Ergebnis

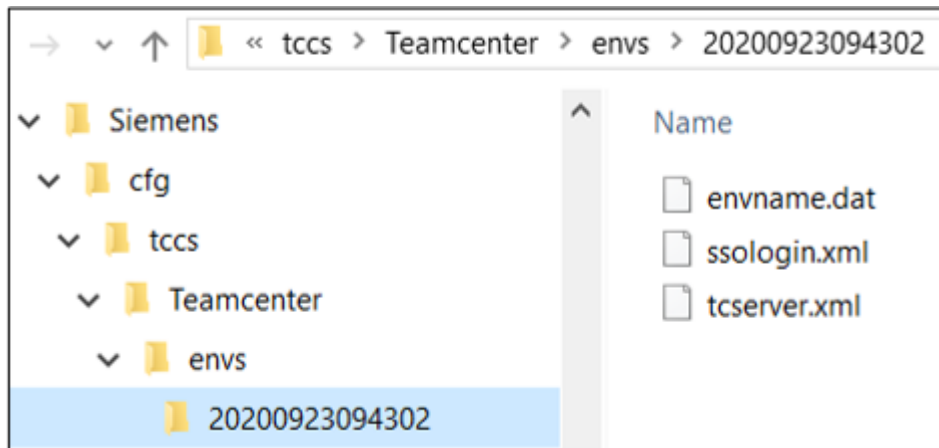
In C:\plm\tc12\portal\plugins\configuration_12000.2.0\client_specific.properties

```

66 #
67 # Runtime and custom entries below this line
68 PortalViewer_Cache=C:/plm/tc12/portal/temp
69 PortalViewer_Optional_Licenses=Simplified_Rendering,ECAD,Concept
70 httpServerCount=1
71 portalCommunicationTransport=tccs
72 tccsVersionFilter=
73 jttoasciiCommand=C:/plm/tc12/jtutilities/bin/jttoascii
74 fileCacheEnabled=true
75 iiopServerCount=0
76

```

Siemens Ordner in C:\ProgramData\

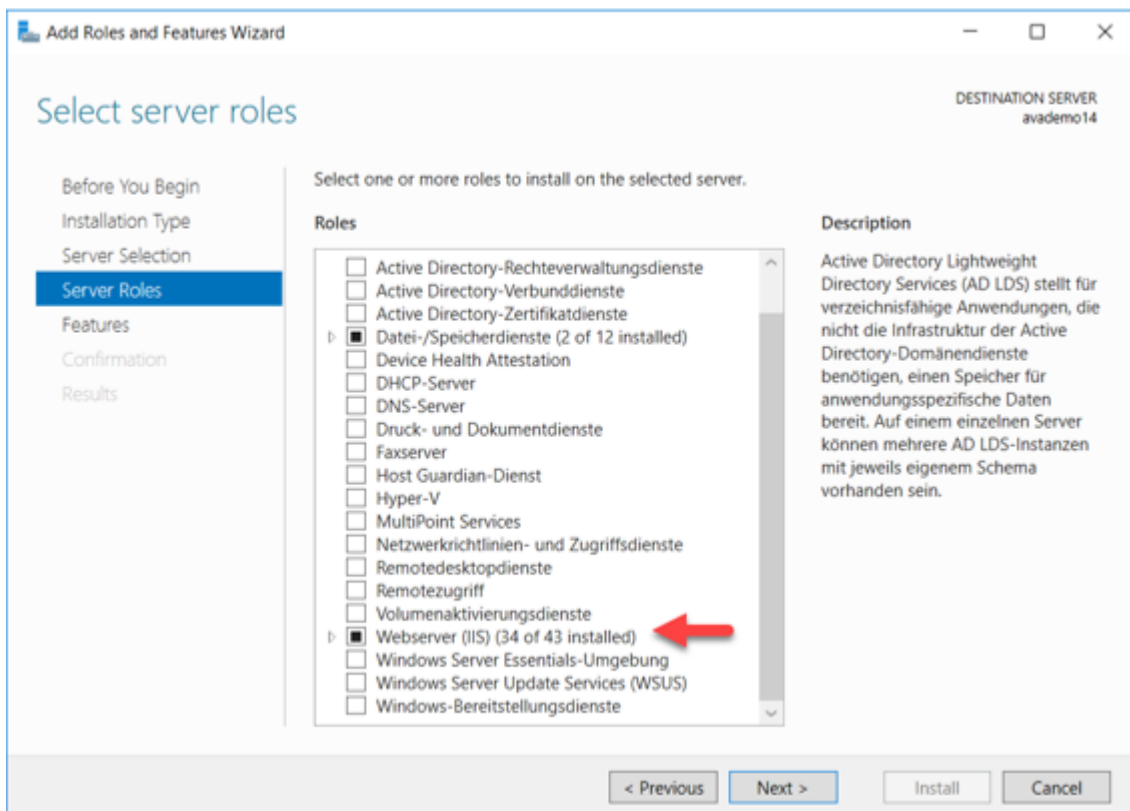
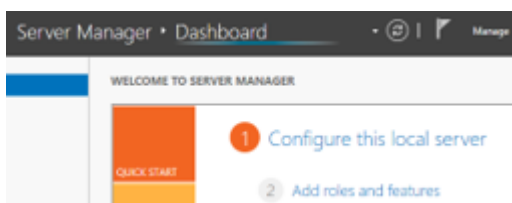


3. IIS auf Webserver konfigurieren

Die IIS Webserverkonfiguration wird wegen der Verifizierung Kerberos authentication benötigt.

3.1 IIS installieren

3.1.1 Configure Microsoft IIS



Common HTTP Features

- Default Document
- Directory Browsing
- HTTP Errors
- Static Content
- HTTP Redirection

Health and Diagnostics

- HTTP Logging
- Logging Tools
- Request Monitor
- Tracing

Performance

- Static Content Compression
- Dynamic Content Compression

Security

- Request Filtering
- Basic Authentication
- Client Certificate Mapping Authentication
- Digest Authentication
- IIS Client Certificate Mapping Authentication
- IP and Domain Restrictions
- URL Authorization
- Windows Authentication

Application Development

- .NET Extensibility 4.x
- ASP
- ASP.NET 4. x
- CGI
- ISAPI Extensions
- ISAPI Filters
- Server Side Includes

Note

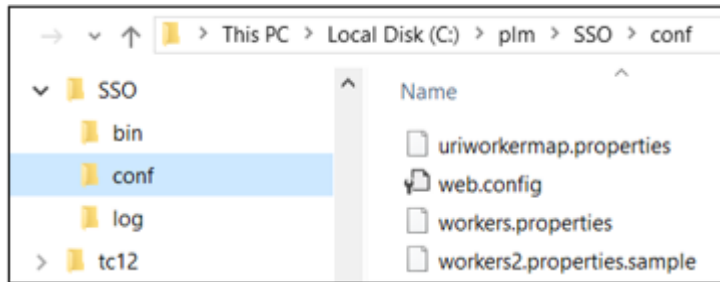
Install only the available ASP.NET 4.x role services. Do not install ASP.NET 3.x role services.

Management Tools

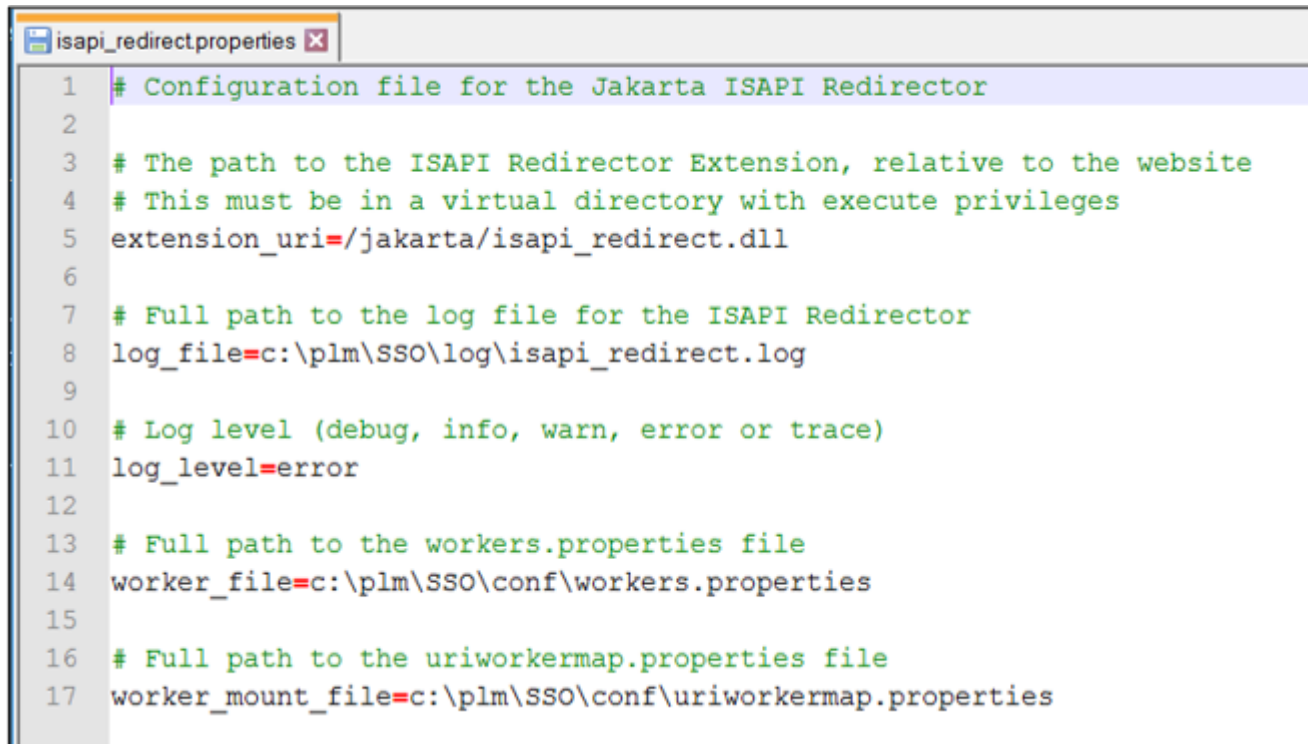
- IIS Management Console

4. C:\plm\SSO einrichten

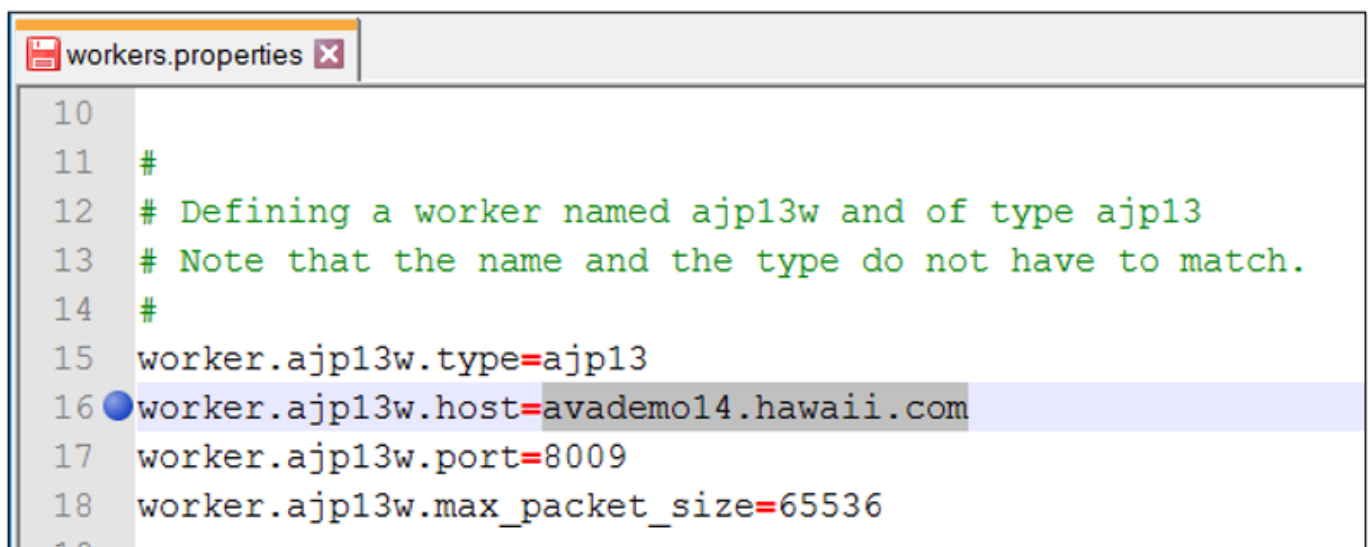
1. Ordner SSO von ... \avaCentralRepository\avaSSO\c\plm\SSO nach c:\plm kopieren



2. Pfade prüfen in: „C:\plm\SSO\bin\isapi_redirect.properties“



3. In „C:\plm\SSO\conf\workers.properties“ host anpassen



5. Modify Tomcat server.xml

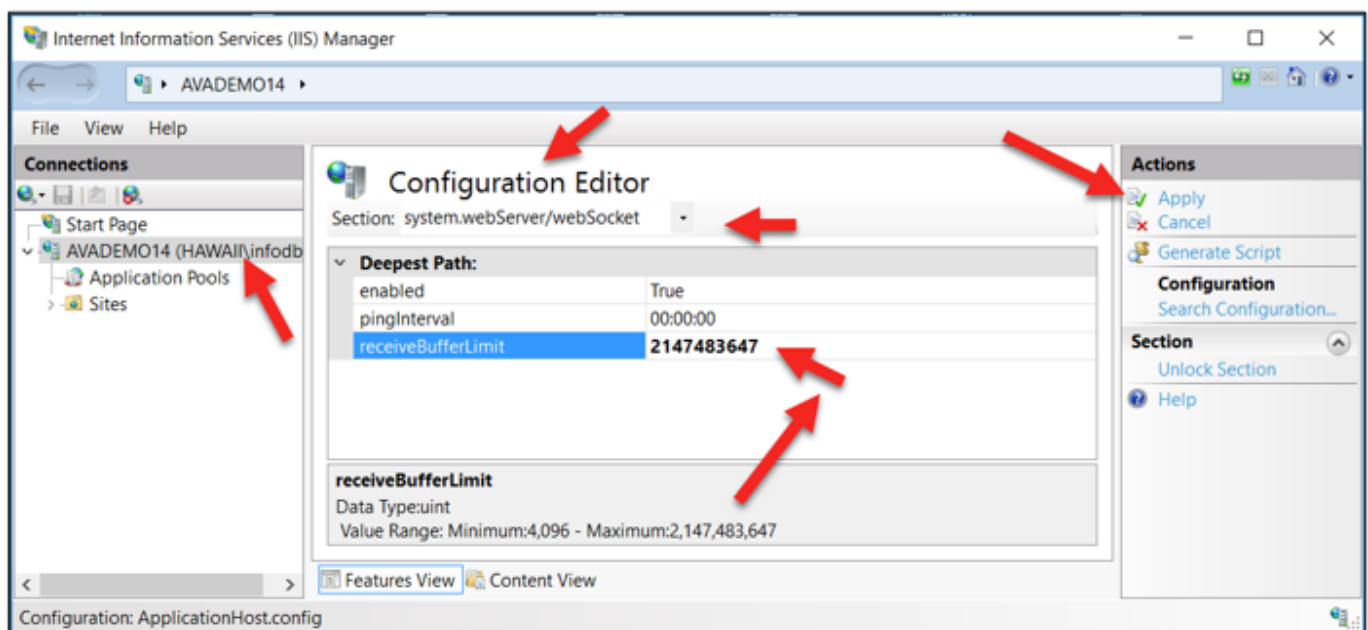
In „C:\plm\webapp\apache-tomcat-9.0.16\conf\server.xml“ anpassen:

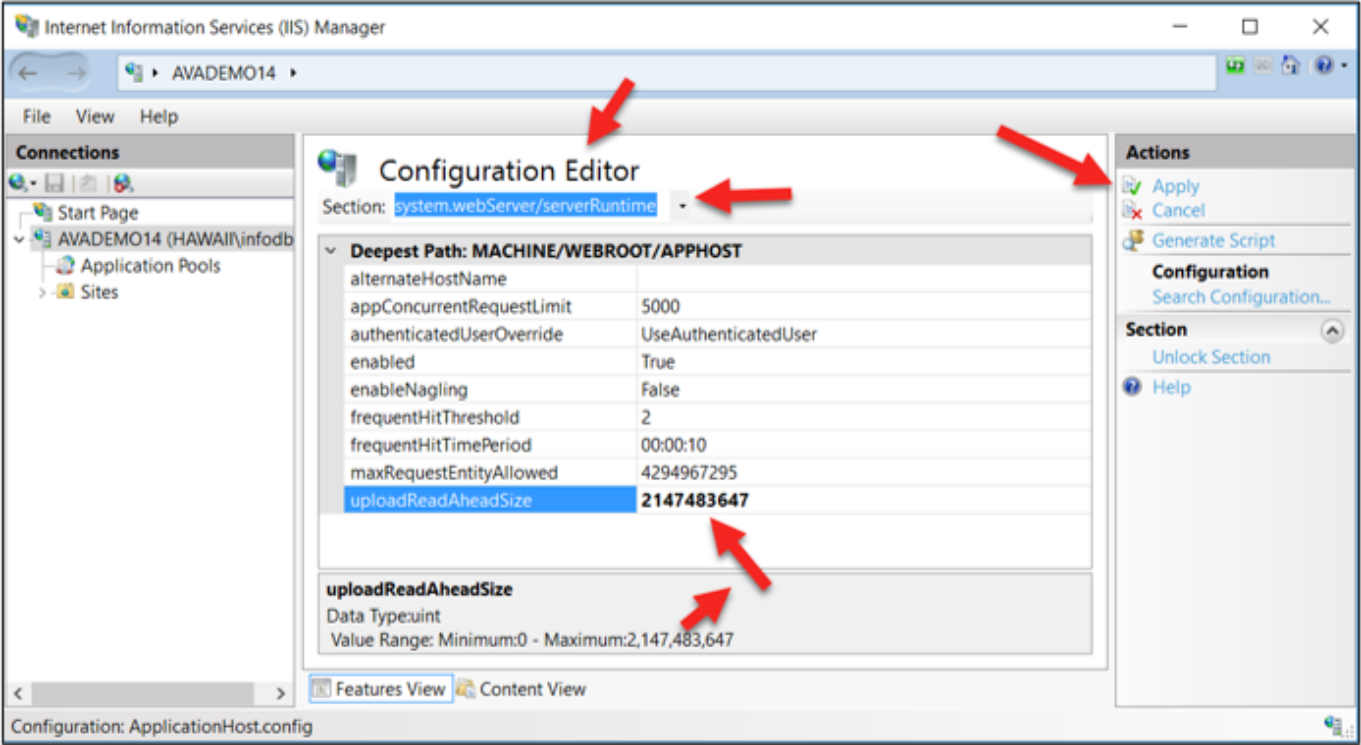
```
server.xml x
114
115      <!-- Define an AJP 1.3 Connector on port 8009 -->
116      <!-- <Connector port="8009" protocol="AJP/1.3" redirectPort="8443" /> -->
117      <Connector port="8009" protocol="AJP/1.3" redirectPort="8443" secretRequired="" maxTh
118
```

```
<!-- <Connector port="8009" protocol="AJP/1.3" redirectPort="8443" /> -->
    <Connector port="8009" protocol="AJP/1.3" redirectPort="8443"
secretRequired="" maxThreads="800" packetSize="65536" URIEncoding="UTF-8"
tomcatAuthentication="false"/>
```

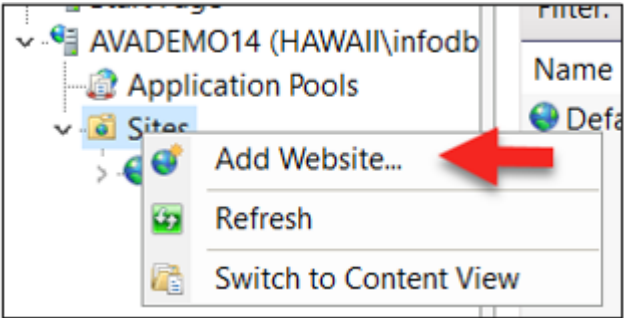
6. IIS konfigurieren

1. Configuration Editor





2. Website hinzufügen



Add Website

Site name: Application pool:

Content Directory

Physical path:

Pass-through authentication

Binding

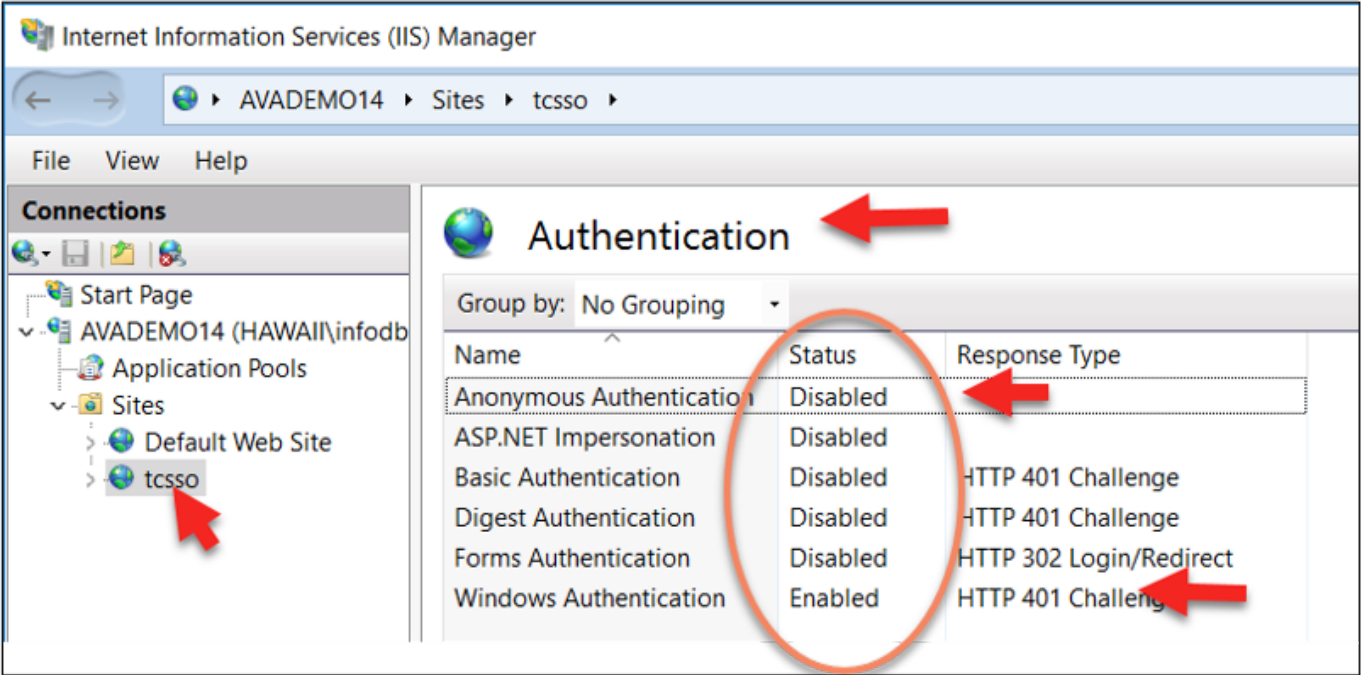
Type: IP address: Port:

Host name:

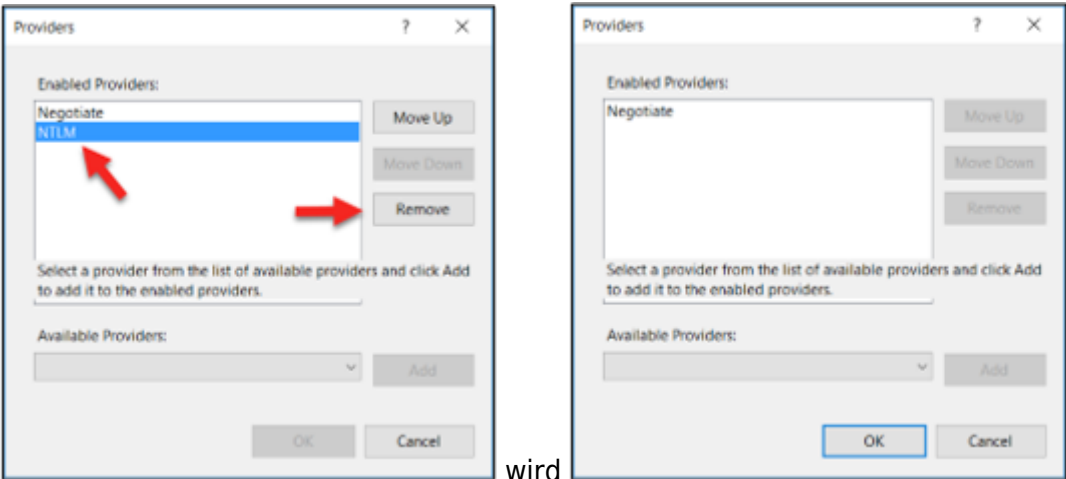
Example: www.contoso.com or marketing.contoso.com

☒ Start Website immediately

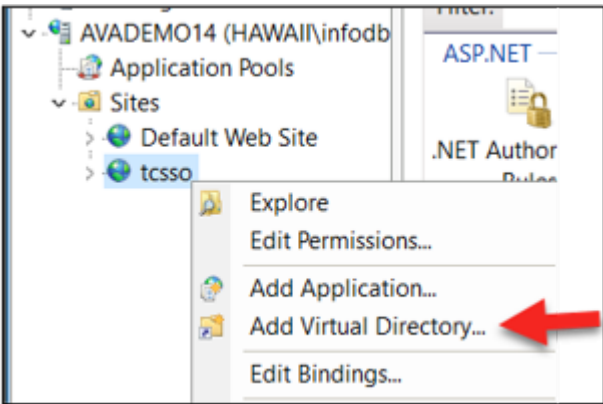
3. Remove NTLM



RMB Windows Authentication, Providers



4. Virtuelle Verzeichnis hinzufügen



Add Virtual Directory ? X

Site name: tcsso
Path: /

Alias:
jakarta

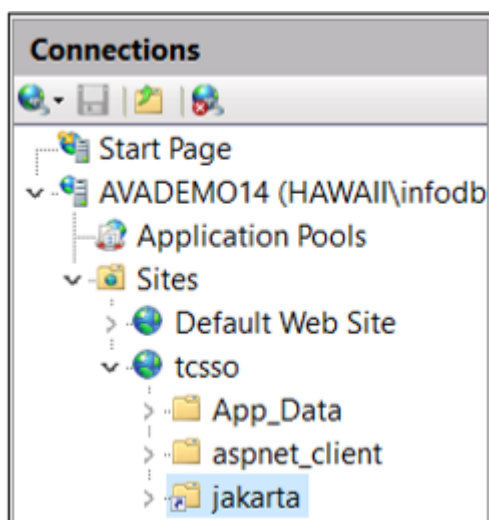
Example: images

Physical path:
C:\plm\SSO\bin

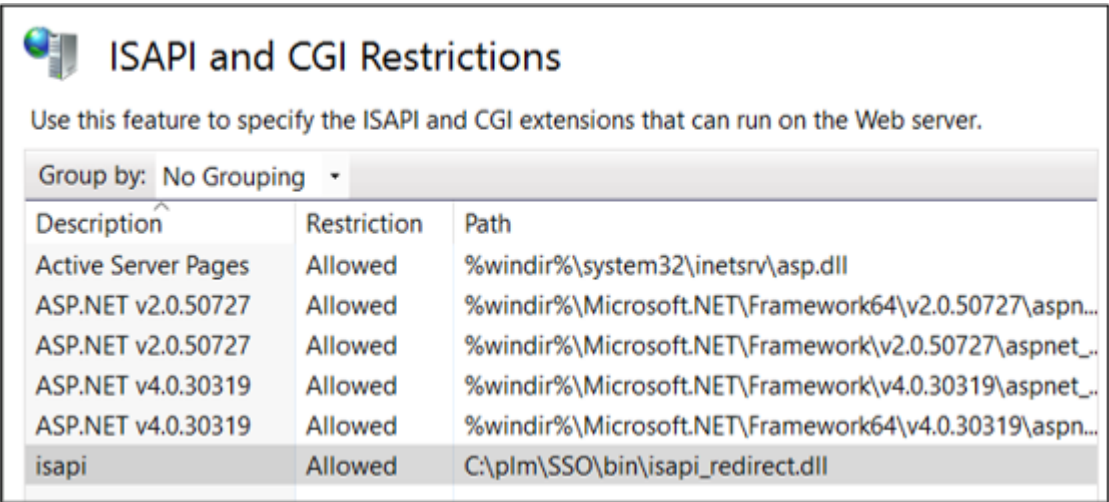
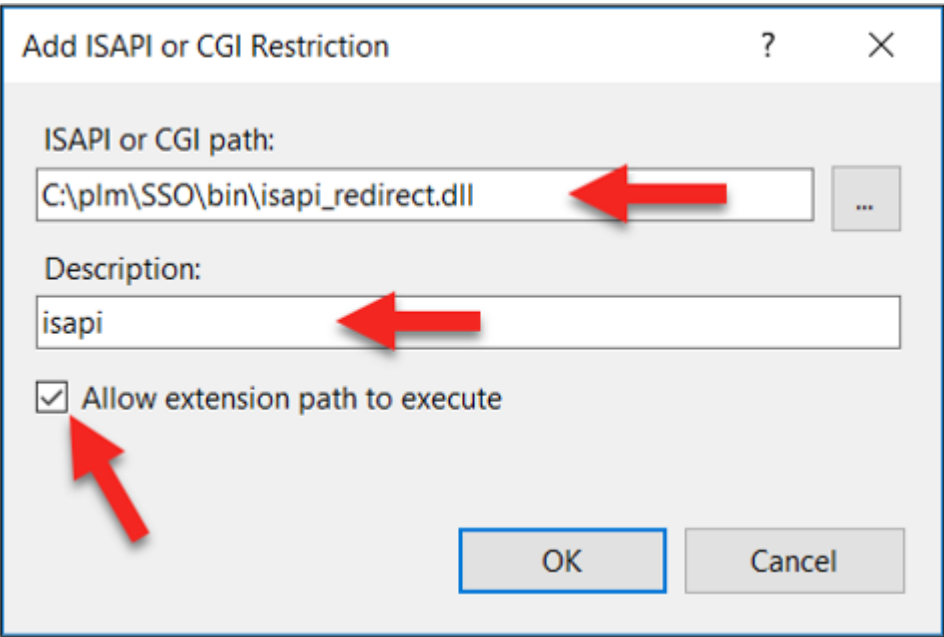
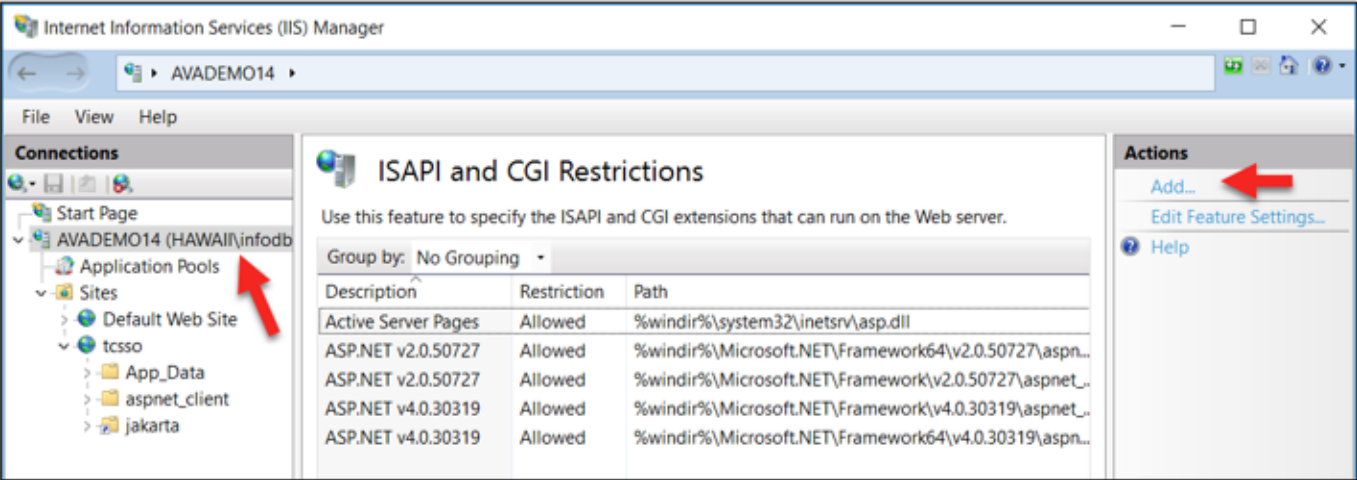
Pass-through authentication

Connect as... Test Settings...

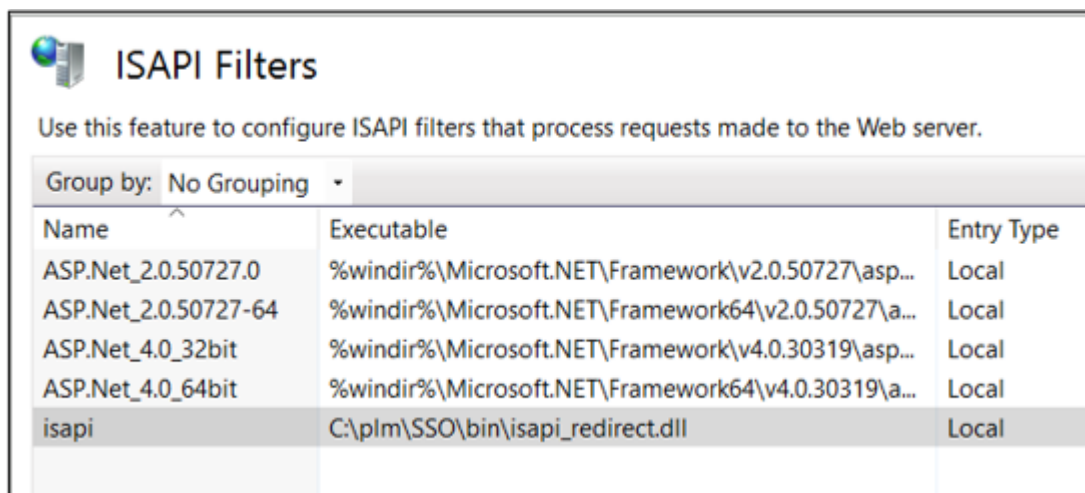
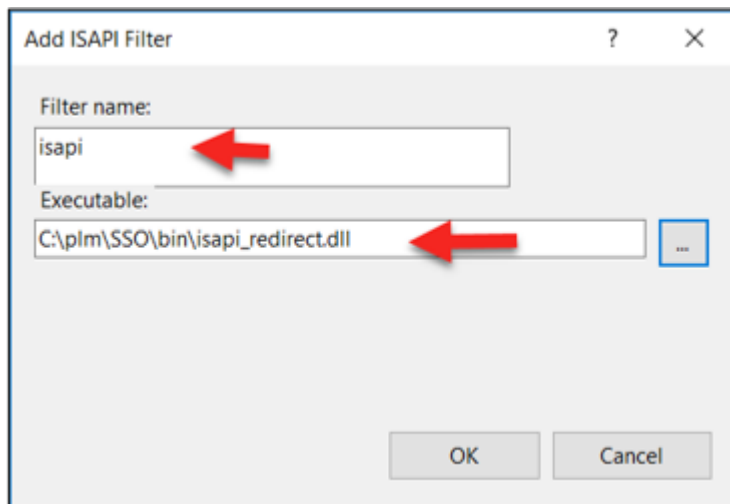
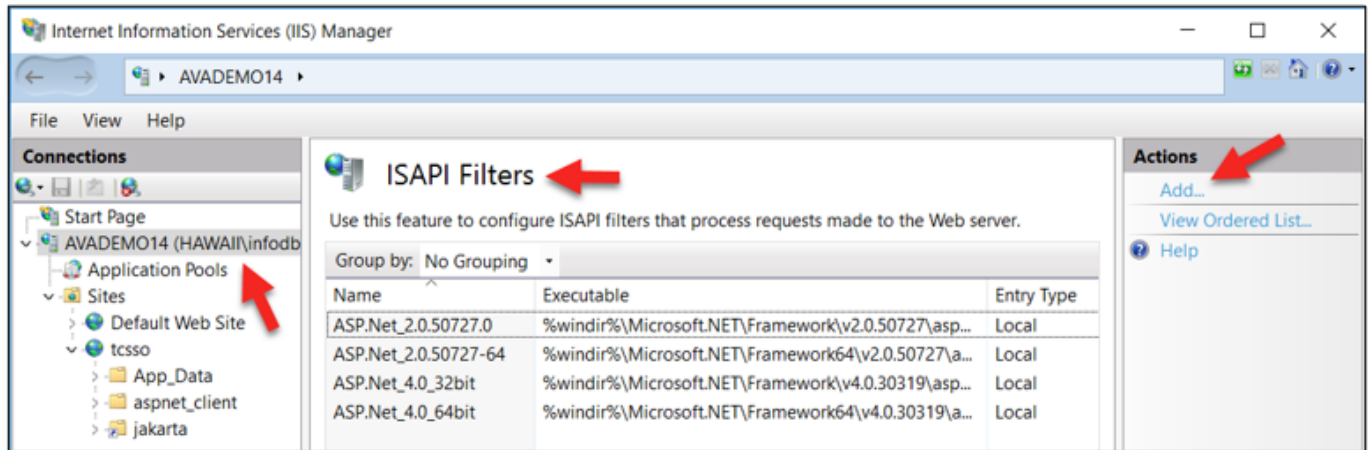
OK Cancel



5. ISAPI and CGI Restrictions



6. ISAPI-Filter



```
Administrator: Command Prompt

Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

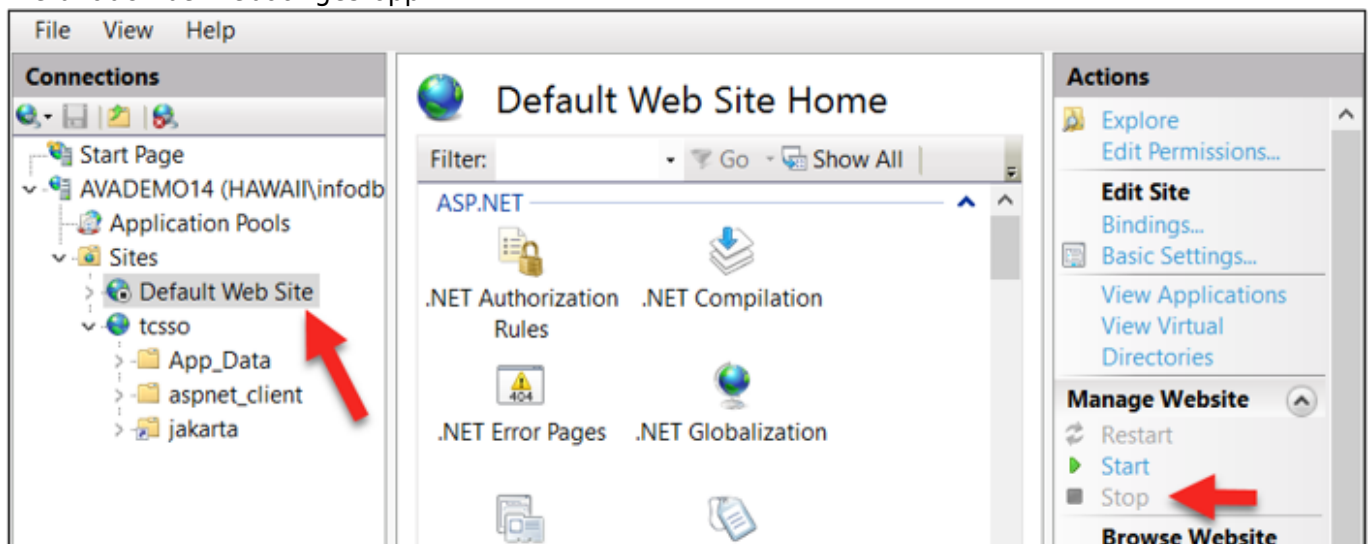
C:\Users\infodba>iisreset ←

Attempting stop...
Internet services successfully stopped
Attempting start...
Internet services successfully restarted

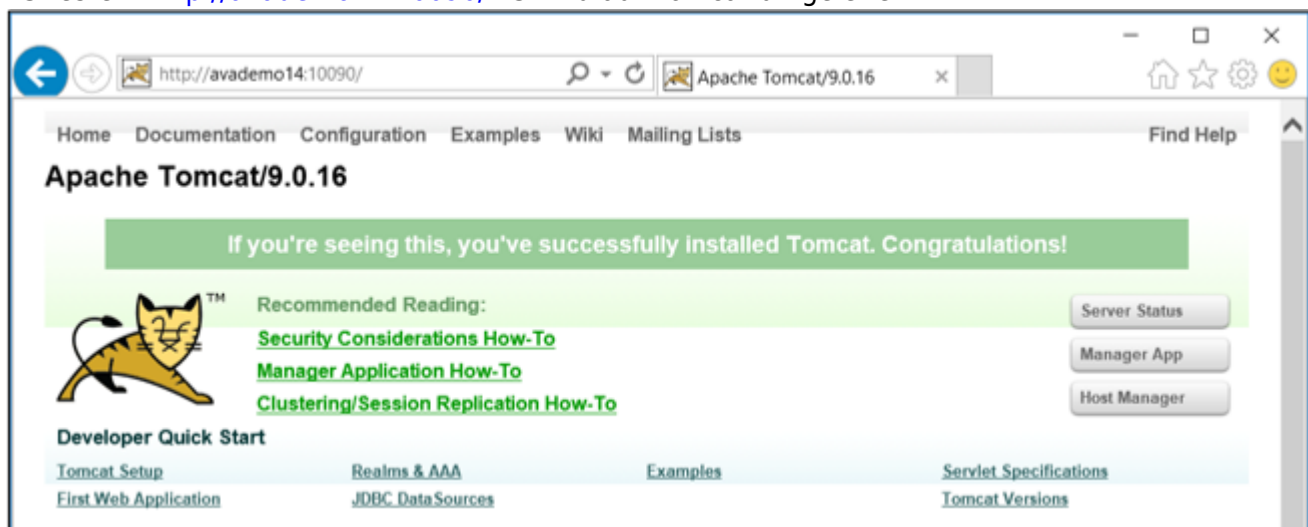
C:\Users\infodba>
```

7. Default Web Site deaktivieren

Bleibt auch bei Reboot gestoppt...



IIS testen: <http://avademol4:10090/> IIS wird auf Tomcat umgeleitet

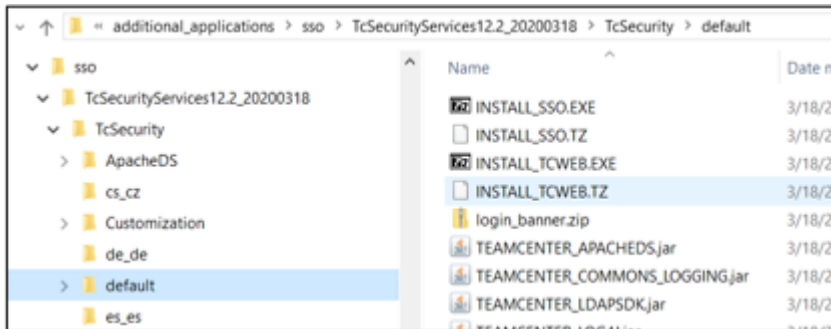


7. Installing Security Services

7.1 SSO Sources vorbereiten

In aktuell installiertem Patch, z.B.

...\Tc12.2.0_patch_8_wntx64\wntx64\additional_applications\sso\TcSecurityServices12.2_20200318.zip
 ip
 entpacken:

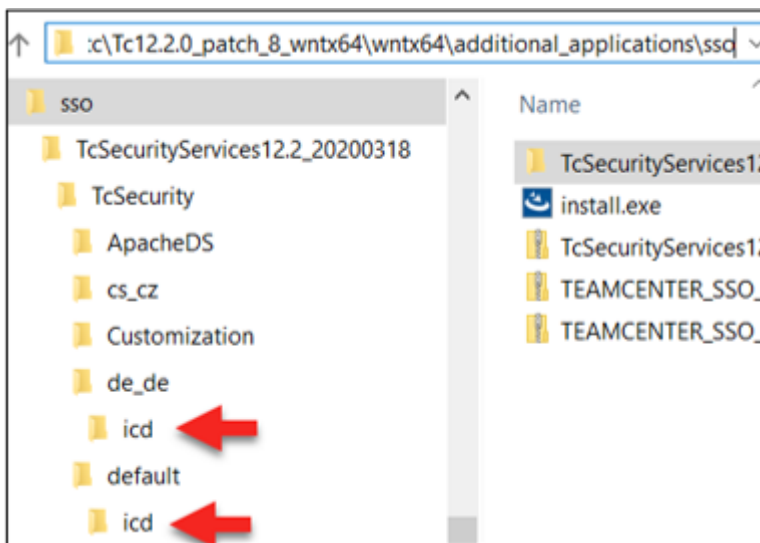


Folgendes ausführen:

...\wntx64\additional_applications\sso\TcSecurityServices12.2_xx\TcSecurity\default\INSTALL_SSO.EXE

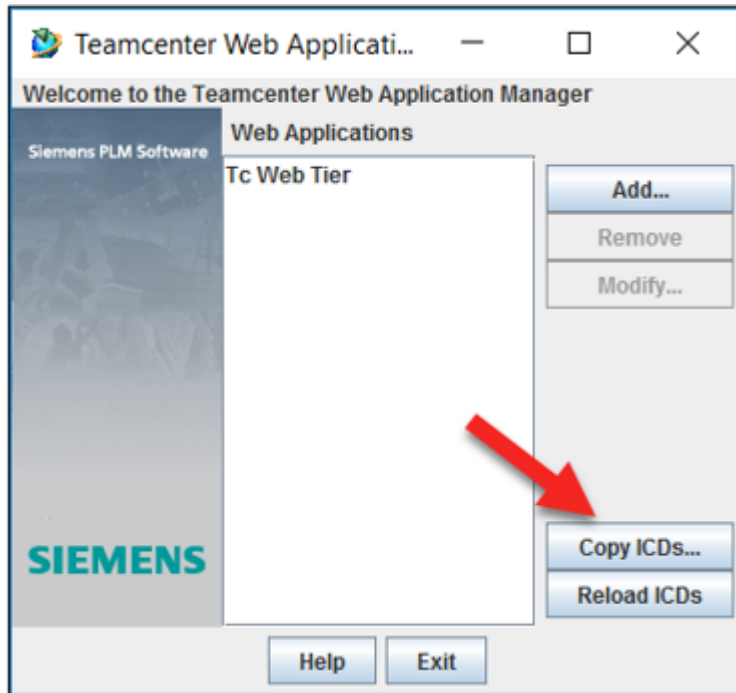
...\wntx64\additional_applications\sso\TcSecurityServices12.2_xx\TcSecurity\de_de\INSTALL_SSO_DE_DE.EXE

Ergebnis: icd Folders

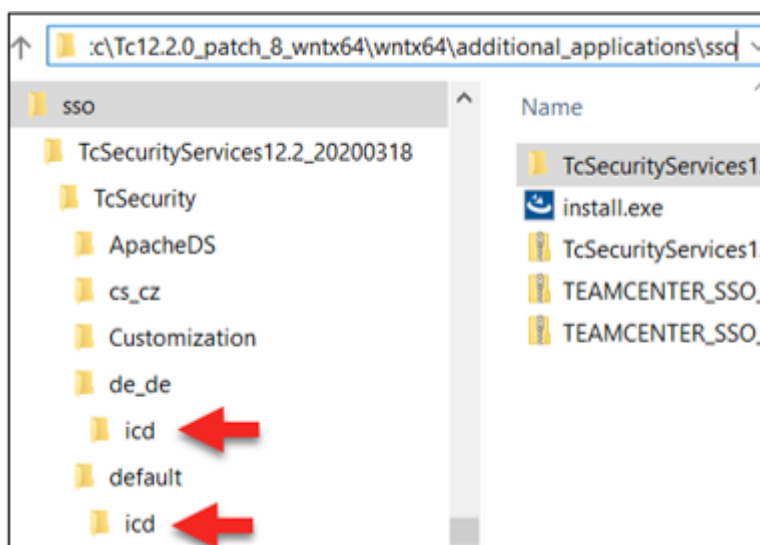


7.2 SSO ICD kopieren

Start „C:\plm\web_tier\insweb.bat«



Zuvor extrahierte ICD einlesen



8. Tss-logiservice erstellen

8.1 Create the Login Service

1. Start the Web Application Manager

- c:\plm\web_tier\insweb.bat

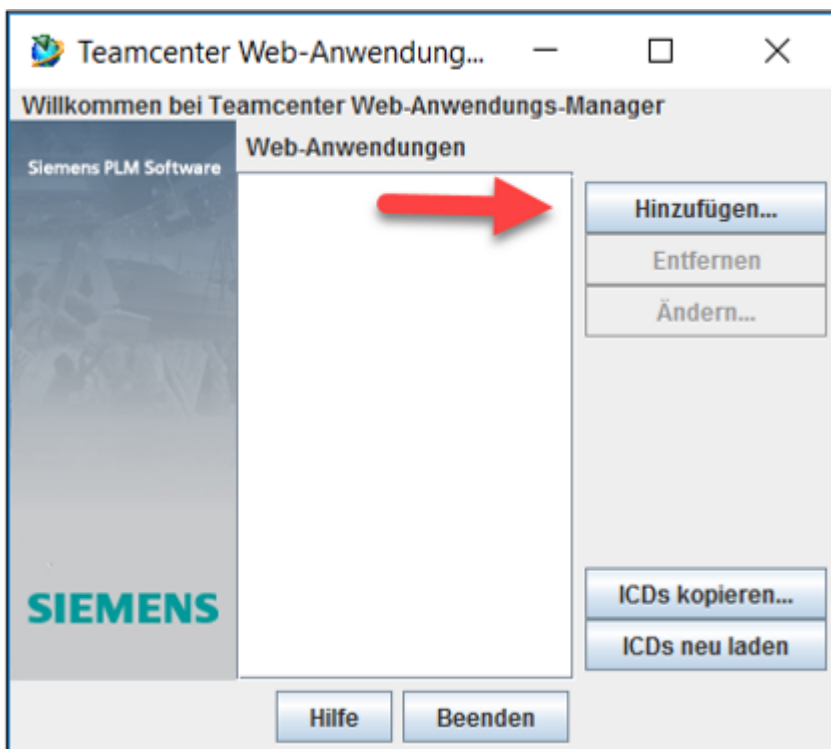
```
C:\Windows\system32\cmd.exe

C:\plm\web_tier>java -mx80m -cp jars\insweb.jar;jars\jdom.jar com.teamcenter.install.insweb.gui.Insweb
Loading of com.teamcenter.install.insweb.gui.TextBundle_de_DE ... succeeded.
Loading of com.teamcenter.install.insweb.struct.TextBundle_de_DE ... succeeded.
Loading of com.teamcenter.install.common.gui.TextBundle_de_DE ... succeeded.
```

Java must be installed...

Teamcenter Web-Anwendungs-Manager

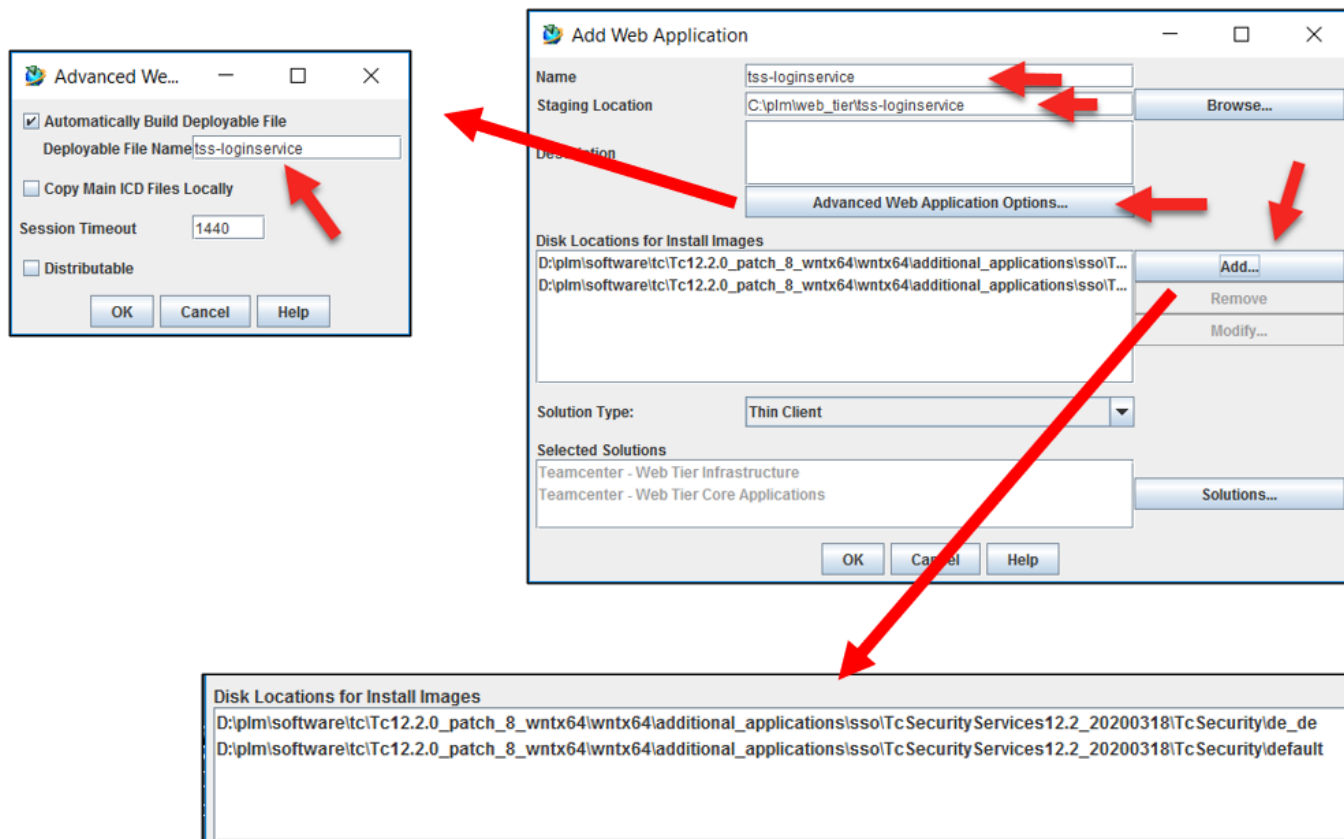
- Select: **Hinzufügen...**



2. Add Web Application

- Name: tss-loginservice
- Staging Location: c:\plm\web_tier\tss-loginservice
- Advanced Web Application Options...

Zu verwendende Datei: tss-loginservice



3. Disk Locations for Install Images

- Add...

Enter disk locations

The Disk Locations for Install Images box contains the default path to the installation files for the Teamcenter solutions on the software distribution image. For this install, select the directory containing the **INSTALL_TCWEB.EXE/TZ** and **INSTALL_SSO.EXE/TZ** files for your system. You can change this default path if necessary by selecting one default path and clicking **Modify**.

Note

Additional language support requires the same process for each **INSTALL_SSO_locale.EXE** file. Add this location to the list of disk locations. For example, the *install-root\ide_de* location contains the following files for the German language:

- TEAMCENTER_SSO_LOGINSERVICE_DE_DE.jar
- TEAMCENTER_SSO_LDAPIDPROVIDER_DE_DE.jar
- TEAMCENTER_SSO_LOGINSERVICE_HELP_DE_DE.jar

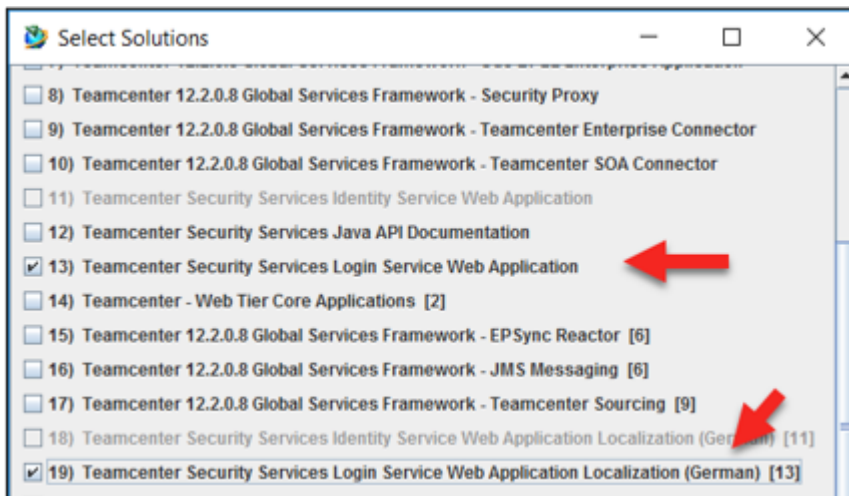
4. Solution Typ: → Thin Client

Lösungstyp: Thin Client

5. Selected Solutions

Solutions...

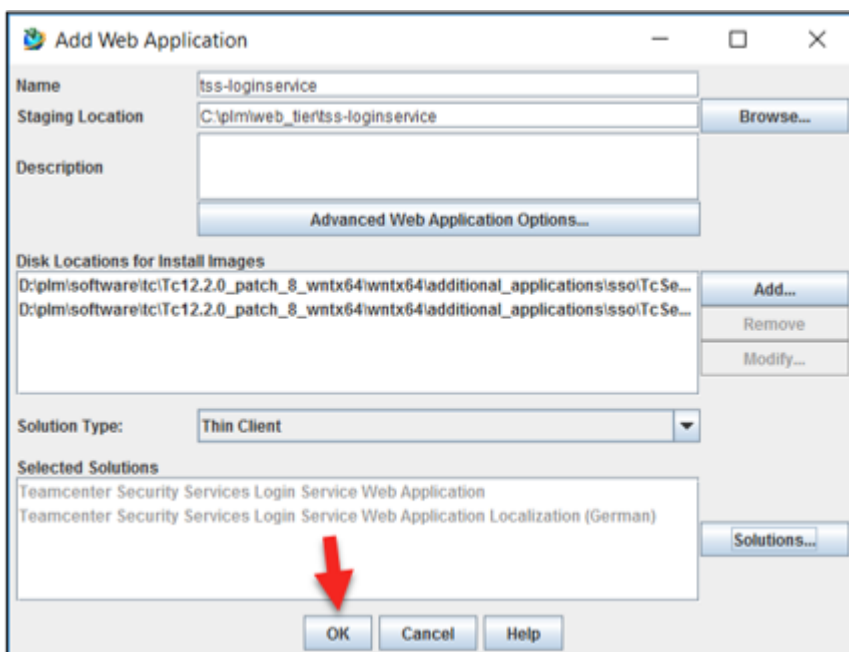
- Select the following:
 - **Security Services Login Service Web Application** (required)
 - **Language** (optional)



- Confirm with: OK

6. Terminate Add Web Application

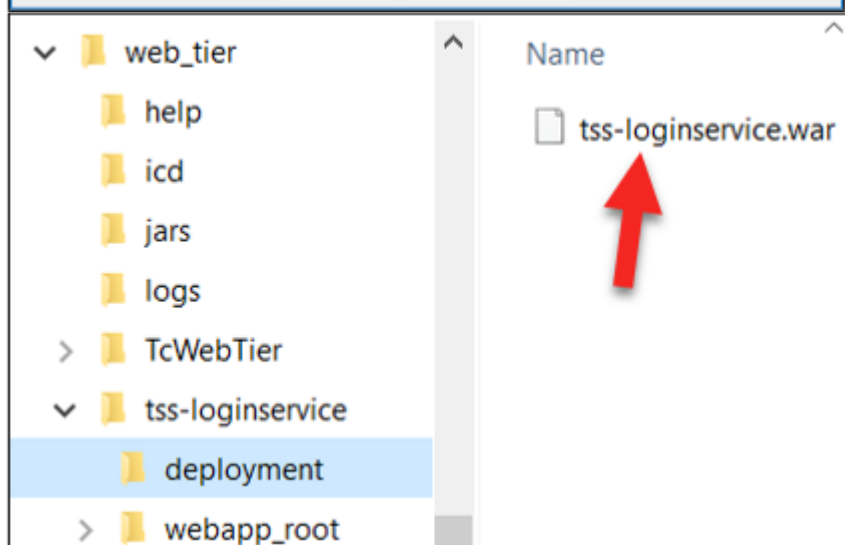
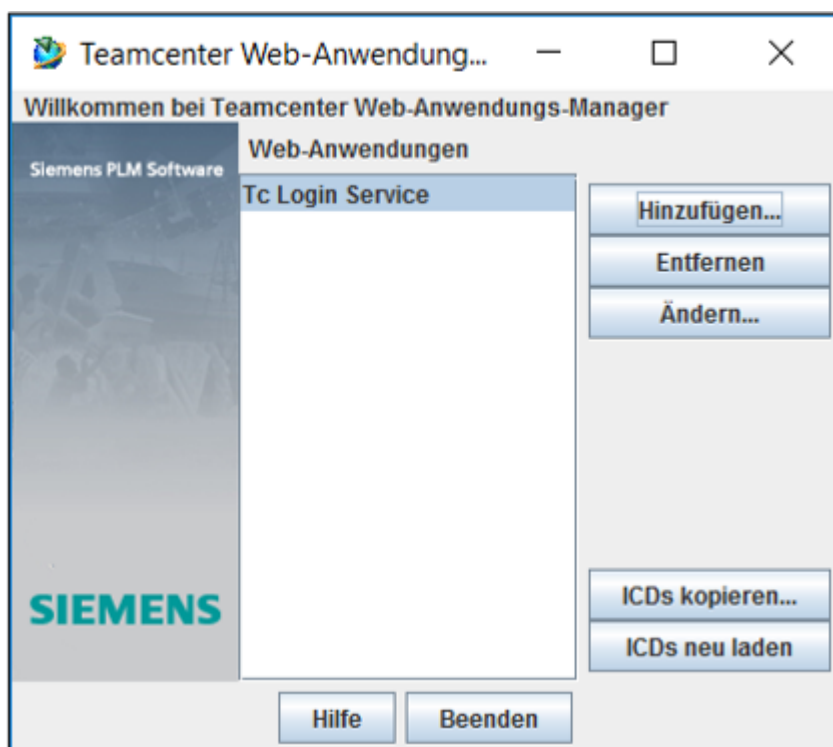
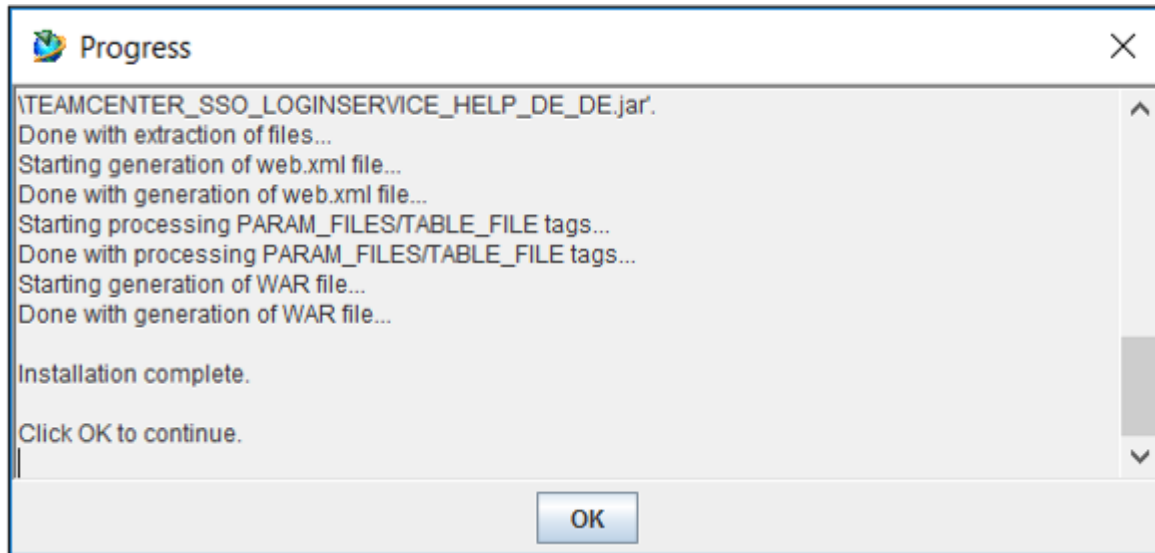
- Check entries...



- Confirm with: OK

7. Progress:

- Confirm with: OK

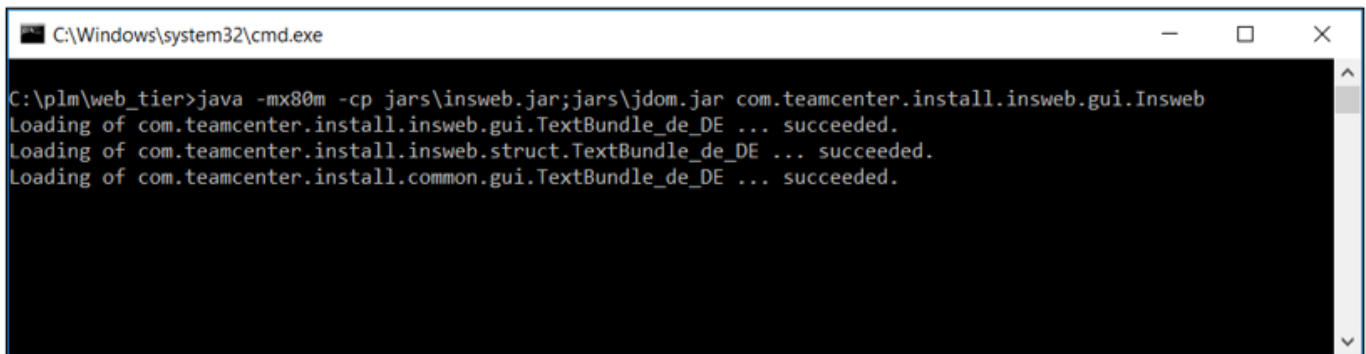


9. Tss-idservice erstellen

9.1 Create the Identity Service

1. Start the Web Application Manager

- c:\plm\web_tier\insweb.bat

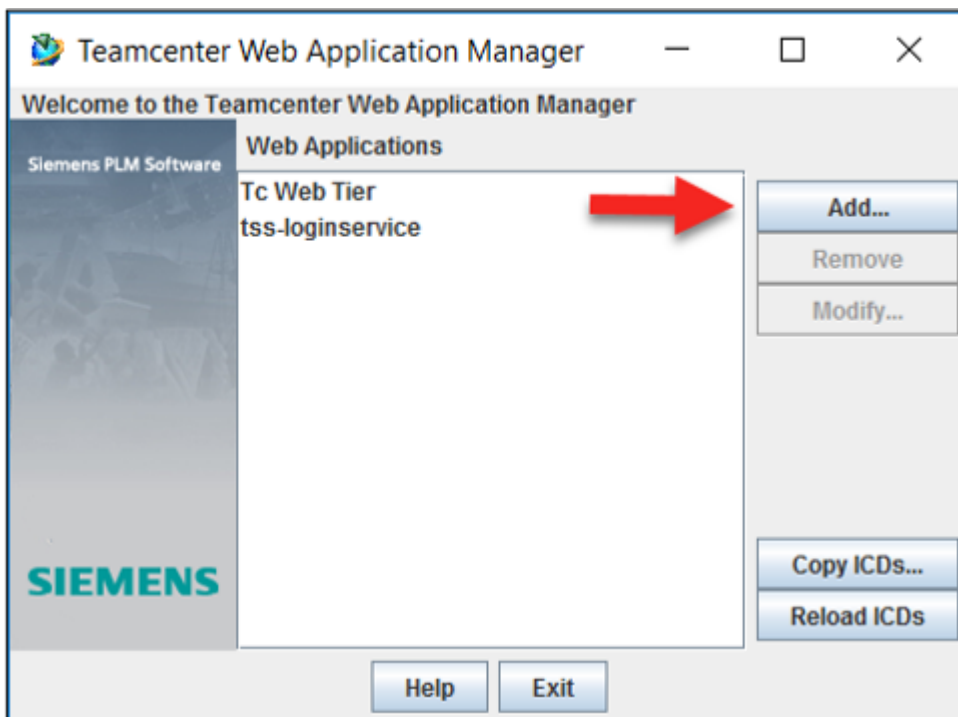


```
C:\Windows\system32\cmd.exe

C:\plm\web_tier>java -mx80m -cp jars\insweb.jar;jars\jdom.jar com.teamcenter.install.insweb.gui.Insweb
Loading of com.teamcenter.install.insweb.gui.TextBundle_de_DE ... succeeded.
Loading of com.teamcenter.install.insweb.struct.TextBundle_de_DE ... succeeded.
Loading of com.teamcenter.install.common.gui.TextBundle_de_DE ... succeeded.
```

Teamcenter Web-Anwendungs-Manager

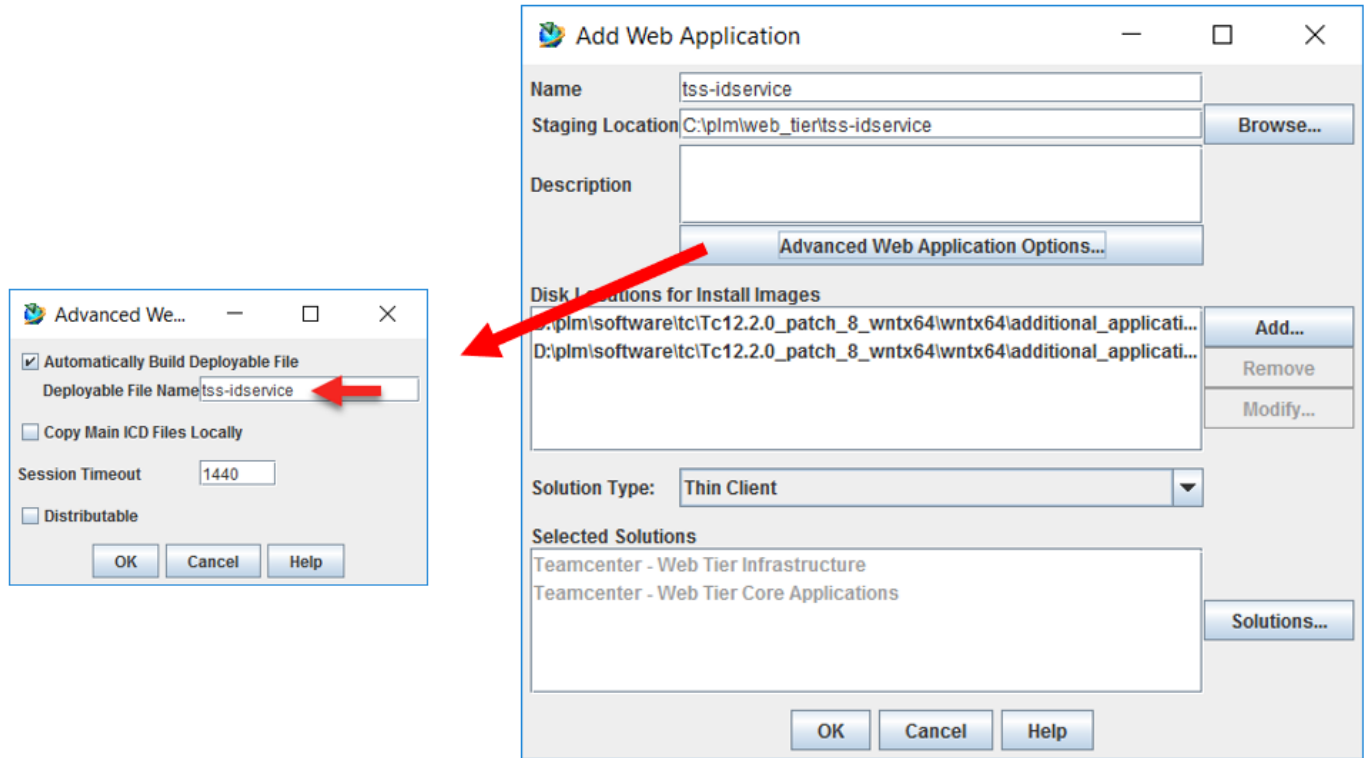
- Select: **Hinzufügen...**



Add Web Application

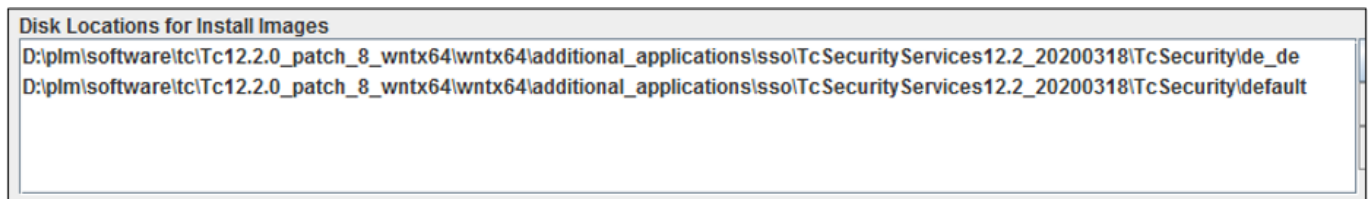
- Name: tss-idservice
- Staging Location: c:\plm\web_tier\tss-idservice
- Advanced Web Application Options...

Zu verwendende Datei: tss-idservice



2. Disk Locations for Install Images

- Add...



3. Solution Typ: → Thin Client

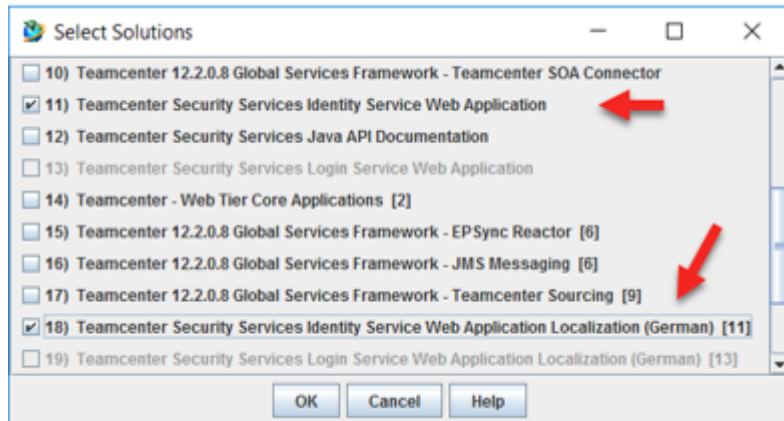


4. Selected Solutions



Select the following:

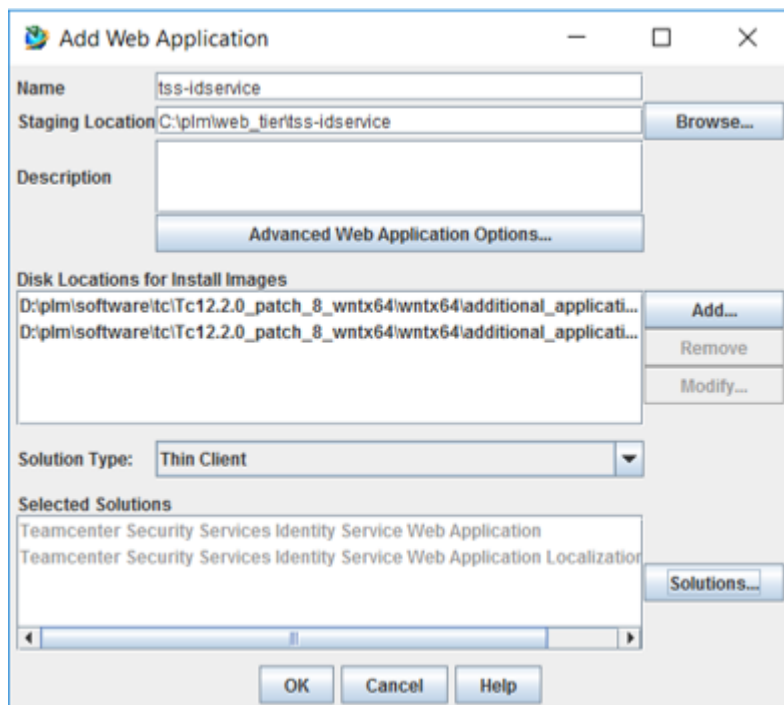
- **TC Security Services Identity Service Web Application** (required)
- **Language** (optional)



- Confirm with: OK

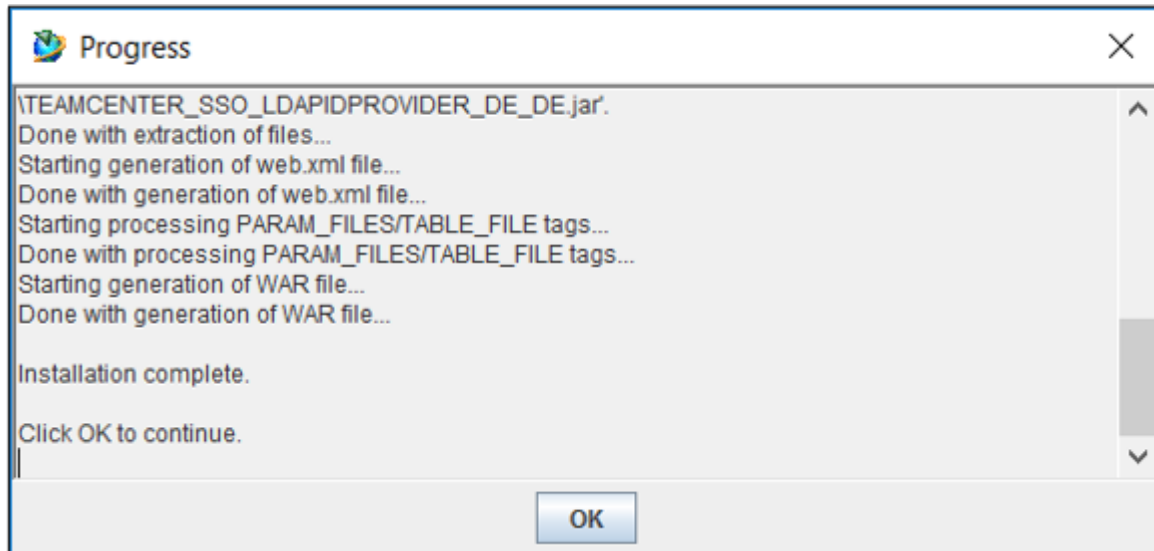
Terminate Add Web Application

- Check entries...

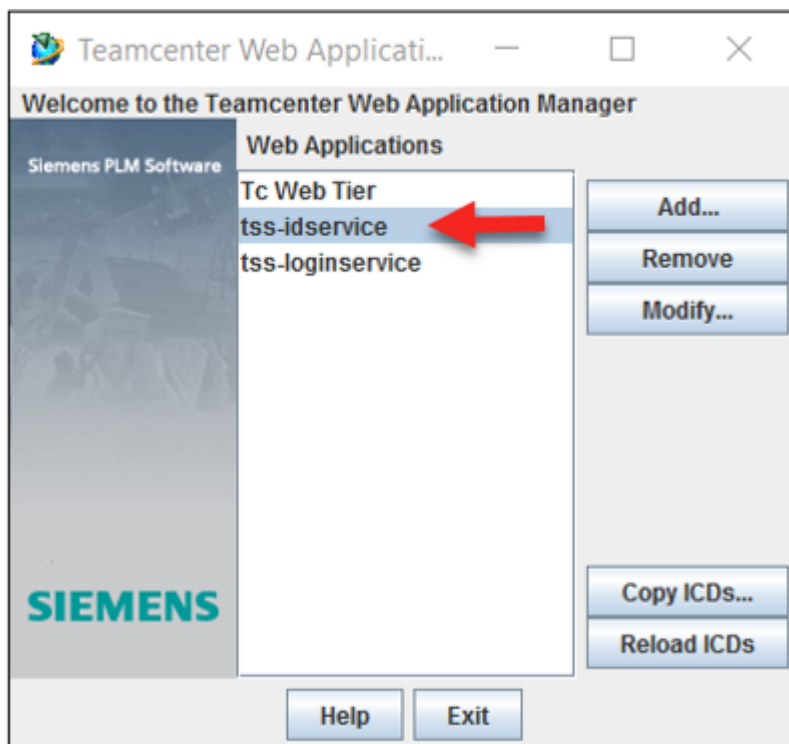


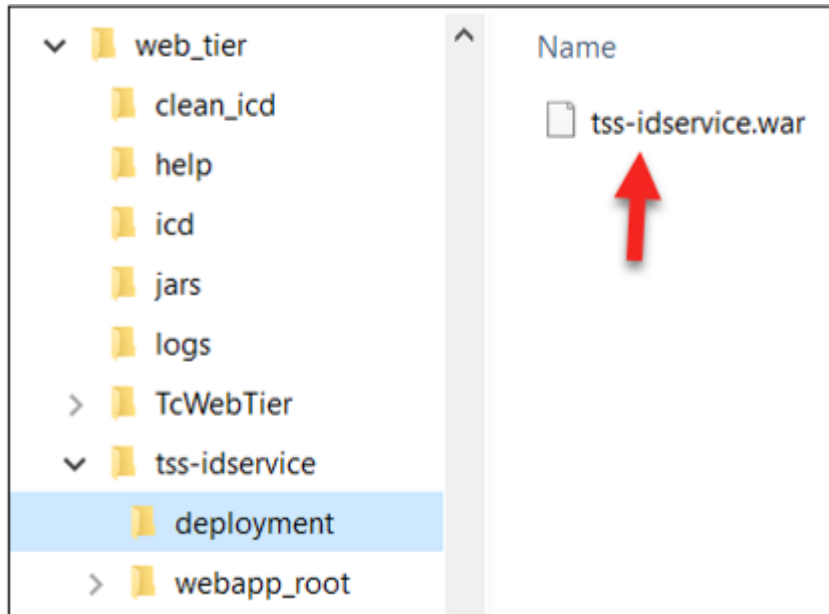
- Confirm with: OK

5. Progress:



- Confirm with: **OK**

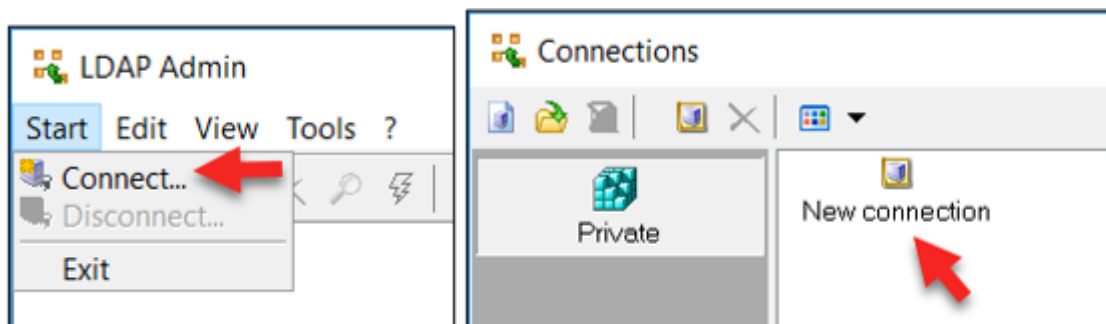




10. Tss-loginservices anpassen

10.1 LdapAdmin

10.1.1 Mit LdapAdmin Loginuser überprüfen



Connection properties

Connection name:

General Options Attributes

Connection:

Host: Port: Version:

Base:

☒ Simple authentication
☐ GSS-API

Account

Username:

Password:

☐ Anonymous connection

Ldapadmin

Connection is successful.

10.1.2 tss-loginservice anpassen, Modify Tables

Teamcenter Web Applicati...

Welcome to the Teamcenter Web Application Manager

Web Applications

Siemens PLM Software

Tc Web Tier

tss-idservice

tss-loginservice

Modify Web Application

Name:

Staging Location:

Description:

Solution Type: **Thin Client**

Installed Solutions:

- Teamcenter Security Services Login Service Web Application
- Teamcenter Security Services Login Service Web Application Localization (German)

ICD Files Last Copied: <No copy done>

Buttons: OK, Cancel, Help

Right Panel Buttons:

- Modify Web Application Information...
- Modify Disk Locations...
- Modify Context Parameters...
- Modify Tables... (indicated by a red arrow)
- Add Solutions...
- Reinstall Solutions...
- Generate Deployable File...
- Copy ICD Files...
- View Component Versions...

Modify...

Tables

Login Input Definitions

Buttons: OK, Cancel, Help

Modify...

Modify Table

Table: Login Input Definitions

name	where	required	idpkey
tcsso_username	form	true	User
tcsso_password	form	false	Password
tcsso_newpassword	form	false	NewPassword
tcsso_confirmpass...	form	false	NotNeeded
tcsso_locale	form	false	UserLocale

Buttons: Add Row..., Remove Row

Table Description:

The value must be of type 'BOOLEAN'. This column requires a value in each field.

* idpkey: This defines the corresponding key name as known within the underlying identity provider.

The value must be of type 'STRING'. This column requires a value in each field.

Buttons: OK, Cancel, Help

10.1.3 tss-loginservice anpassen, Modify Context Parameters

Modify Web Application

Name: tss-loginservice

Staging Location: C:\plm\web_tier\tss-loginservice

Description:

Solution Type: Thin Client

Installed Solutions:

- Teamcenter Security Services Login Service Web Application
- Teamcenter Security Services Login Service Web Application Localization (German)

ICD Files Last Copied: <No copy done>

Buttons on the right:

- Modify Web Application Information...
- Modify Disk Locations...
- Modify Context Parameters...
- Modify Tables...
- Add Solutions...
- Reinstall Solutions...
- Generate Deployable File...
- Copy ICD Files...
- View Component Versions...

Buttons at the bottom:

- OK
- Cancel
- Help

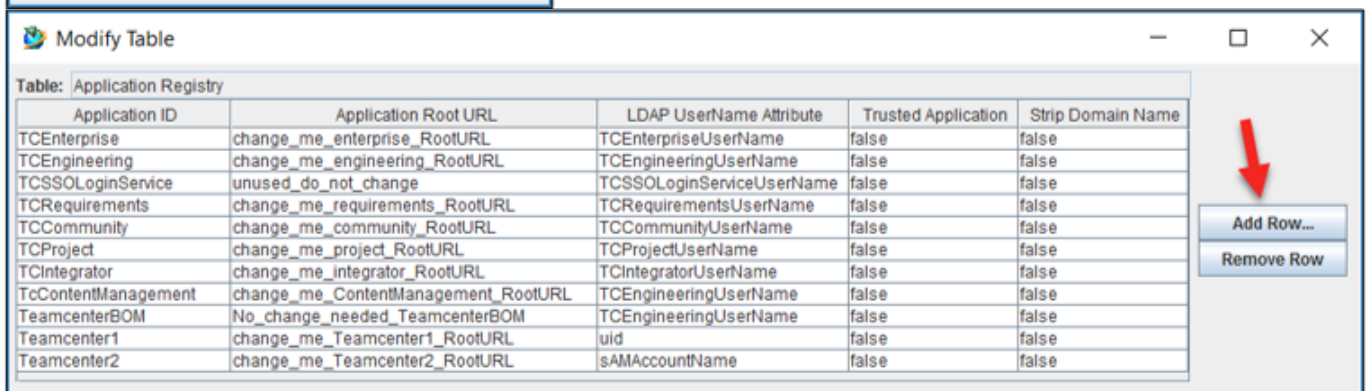
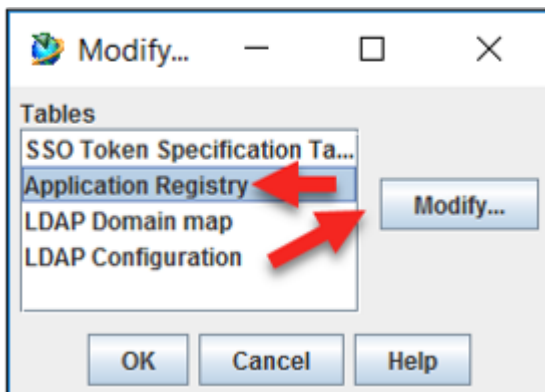
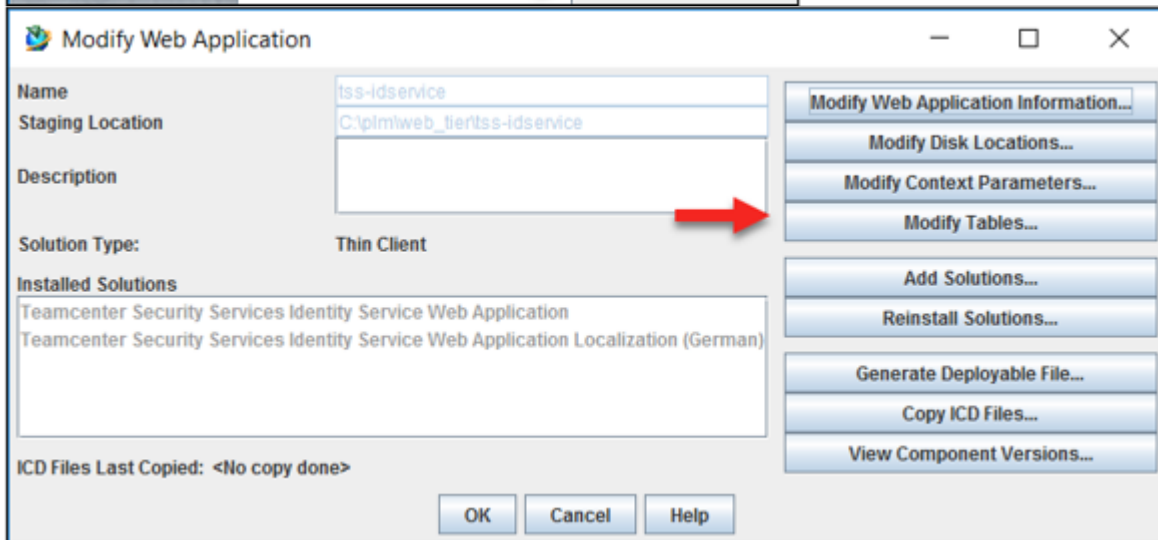
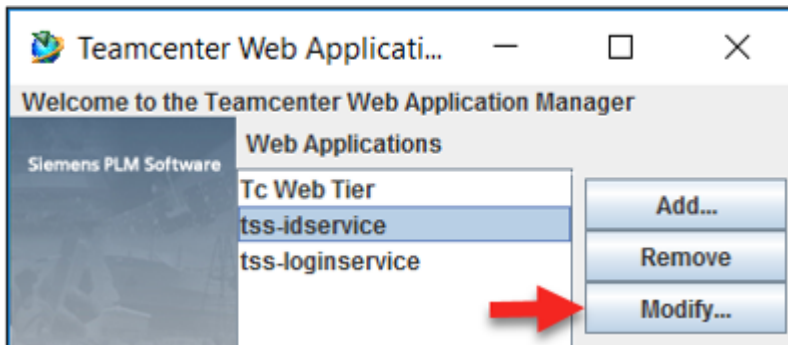
tcsso.login_service.sso_service_url:	http://avademo14.hawaii.com:7070/tss-idservice
identityServicePassword:	sicheres Passwort eingeben: 1nFodbAA
tcsso.behind_sso_gateway:	true
tcsso.gateway.field.type:	remote_user
tcsso.gateway.field.name:	REMOTE_USER
tcsso.login_service.enable_session_agent_applet:	false
tcsso.login_service.enableCsrf:	false



Context Parameters		
Req	Name	Value
☐	webmaster	change_me_webmaster_name@change_me_email_domain
☐	tcsso.login_service.appid	TCSSOLoginService
☐	tcsso.login_service.http_connection_close	keep-alive
☐	tcsso.login_service.rp_cookieNamePattern	PD-H-SESSION-ID, PD-S-SESSION-ID, SMSESSION
☐	tcsso.login_service.proxyURL	
☐	tcsso.login_service.sso_service_url	http://avademio14.hawaii.com:7070/tss-idservice
☐	identityServicePassword	*****
☐	tcsso.behind_sso_gateway	true
☐	tcsso.gateway.field.type	remote_user
☐	tcsso.gateway.field.name	REMOTE_USER
☐	tcsso.username.filter.class	
☐	tcsso.client.enable.notice.consent.logon.banner	false
☐	tcsso.forgotten.password.URL	
☐	tcsso.online_help.enable	true
☐	tcsso.login_service.enable_session_agent_applet	false
☐	tcsso.login_service.force_web_browser_login	false
☐	tcsso.frame_ancestors	none
☐	tcsso.federation_type	none
☐	tcsso.federation_url	
☐	tcsso.federation_reply_url	
☐	tcsso.federation_logout_url	
☐	tcsso.cors_whitelist	
☐	DEBUG	warn
☐	tcsso.login_service.enableCsrf	false

10.2 Tss-idservices anpassen

10.2.1 tss-idservice anpassen, Modify Tables



Application ID:	tcprod (SID...)
Application Root URL:	http://avademo14.hawaii.com:7070/

LDAP UserName Attribute:	sAMAccountName
Trusted Application:	false
Strip Domain Name:	true

Add Row to Table - Application R...

Application ID:

Application Root URL:

LDAP UserName Attribute:

Trusted Application:

Strip Domain Name:

10.2.2 tss-idservice anpassen, Modify Tables

Modify Web Application

Name:

Staging Location:

Description:

Solution Type: **Thin Client**

Installed Solutions:

- Teamcenter Security Services Identity Service Web Application
- Teamcenter Security Services Identity Service Web Application Localization (German)

ICD Files Last Copied: <No copy done>

Modify Web Application Information...

Modify Disk Locations...

Modify Context Parameters...

Modify Tables...

Add Solutions...

Reinstall Solutions...

Generate Deployable File...

Copy ICD Files...

View Component Versions...

Modify...

Tables

- SSO Token Specification Ta...
- Application Registry
- LDAP Domain map**
- LDAP Configuration

Modify Table

Table: LDAP Domain map

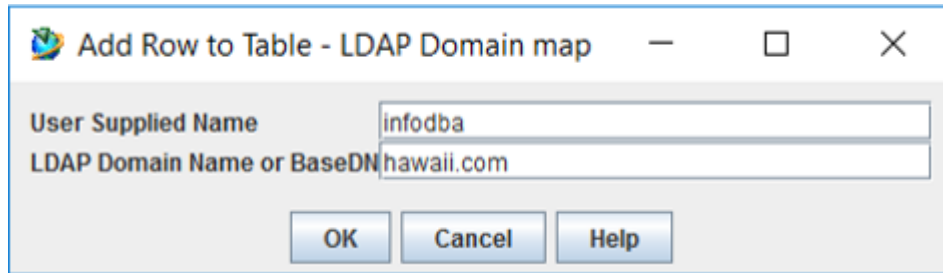
User Supplied Name	LDAP Domain Name or BaseDN
--------------------	----------------------------

Table Description

Identity Provider. If the string contains a ";", it will be interpreted as a BaseDN and forwarded to the identity provider unmodified. If it is a domain name of the form "x.y.z" it will be converted to the BaseDN "DC=x,DC=y,DC=z" and forwarded to the identity provider.

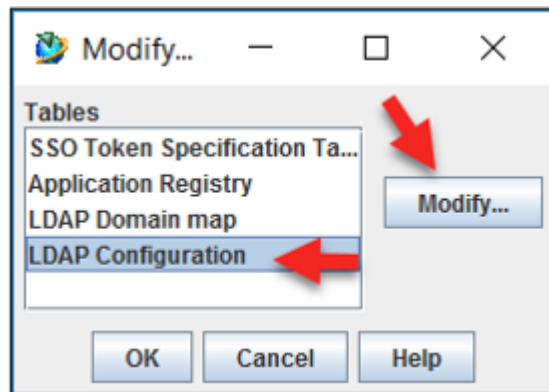
The value must be of type 'STRING'. This column requires a value in each field.

User Supplied Name:	infodba (Domänenbenutzer welcher abfragen darf ob TC-User Mitglied in Domäne ist)
LDAP Domain Name or BaseDN:	hawaii.com

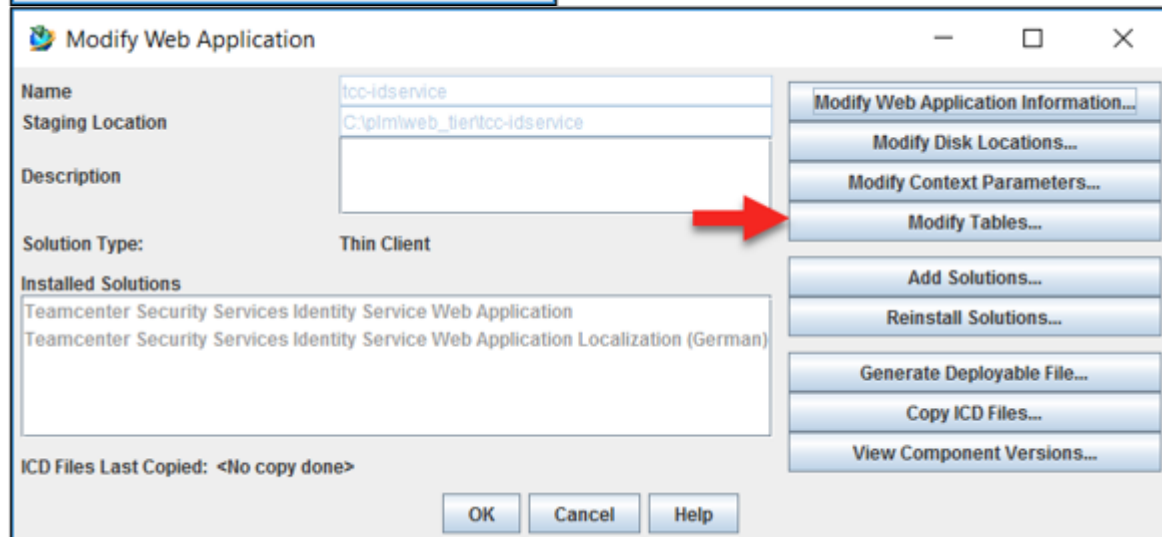


Dialog box titled "Add Row to Table - LDAP Domain map". It contains two input fields: "User Supplied Name" with the value "infodba" and "LDAP Domain Name or BaseDN" with the value "hawaii.com". Below the fields are three buttons: "OK", "Cancel", and "Help".

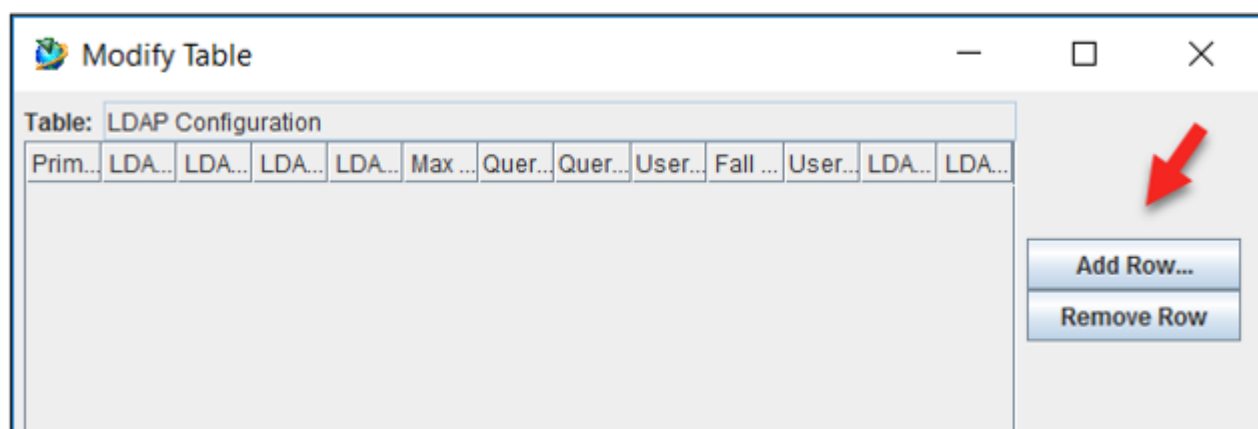
10.2.3 tss-idservice anpassen, Modify Tables



Dialog box titled "Modify...". It contains a list box labeled "Tables" with the following items: "SSO Token Specification Ta...", "Application Registry", "LDAP Domain map", and "LDAP Configuration". The "LDAP Configuration" item is selected. To the right of the list box is a "Modify..." button. Below the list box are three buttons: "OK", "Cancel", and "Help". Red arrows point to the "LDAP Configuration" item and the "Modify..." button.



Dialog box titled "Modify Web Application". It contains several fields and a list of installed solutions. The "Name" field is "tcc-idservice" and the "Staging Location" is "C:\pim\web_tier\tcc-idservice". The "Description" field is empty. The "Solution Type" is "Thin Client". The "Installed Solutions" list contains two items: "Teamcenter Security Services Identity Service Web Application" and "Teamcenter Security Services Identity Service Web Application Localization (German)". To the right of the main fields is a vertical stack of buttons: "Modify Web Application Information...", "Modify Disk Locations...", "Modify Context Parameters...", "Modify Tables...", "Add Solutions...", "Reinstall Solutions...", "Generate Deployable File...", "Copy ICD Files...", and "View Component Versions...". A red arrow points to the "Modify Tables..." button. At the bottom are three buttons: "OK", "Cancel", and "Help".



Dialog box titled "Modify Table". It contains a table with the following columns: "Prim...", "LDA...", "LDA...", "LDA...", "LDA...", "Max ...", "Quer...", "Quer...", "User...", "Fall ...", "User...", "LDA...", and "LDA...". The table is currently empty. To the right of the table are two buttons: "Add Row..." and "Remove Row". A red arrow points to the "Add Row..." button.



Add Row to Table - LDAP Configurati...

Primary LDAP

LDAP Host

LDAP Port Number

LDAP Port Number Override?

LDAP Connect Type

Max LDAP Connections

Query DN

Query DN Password

UserObjectClass

Fall back to User Attribute

User Attribute

LDAP Connection Setup Delay

LDAP Connection Timeout

Y

avademo14.hawaii.com

389

N

ldap

20

infodba@hawaii.com

.....

user

Y

sAMAccountName

-1

0

OK

Cancel

Help

Primary LDAP:	Y
LDAP Host:	avademo14.hawaii.com
LDAP Port Number:	389
LDAP Port Number Override?:	N
LDAP Connect Type:	ldap
Max LDAP Connections:	20
Query DN:	infodba@hawaii.com
Query DN Password:	infodba (Passwort User)
UserObjectClass:	user
Fall back to User Attribute:	Y
User Attribute:	sAMAccountName
LDAP Connection Setup Delay:	-1
LDAP Connection Timeout:	0

10.2.4 tss-idservice anpassen, Modify Context Parameters

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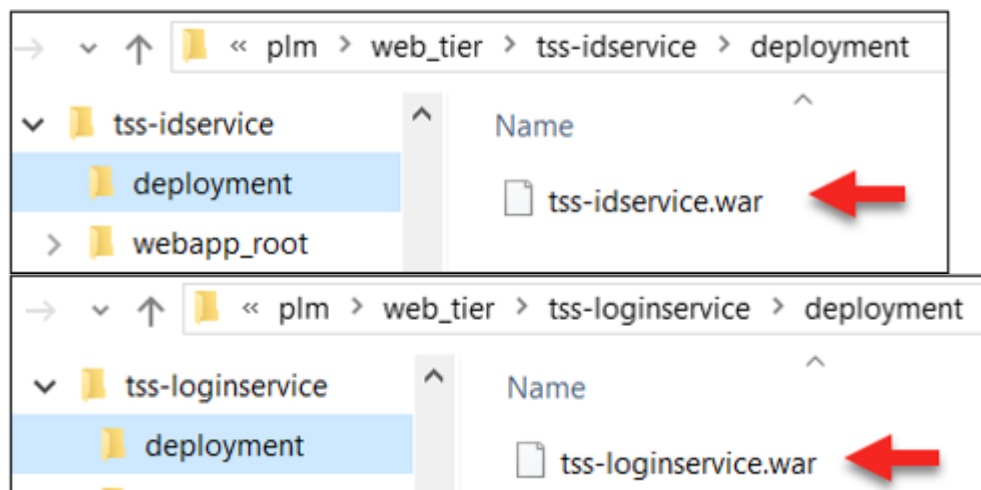
Printed on 2025/10/28 22:35

identityServicePassword:	sicheres Passwort eingeben: 1nFodbAA (gleiches wie bei loginservice!!!)
tcsso.LogLevel	Authentication failures
tcsso.AuthLogDir	c:\plm\SSO\log

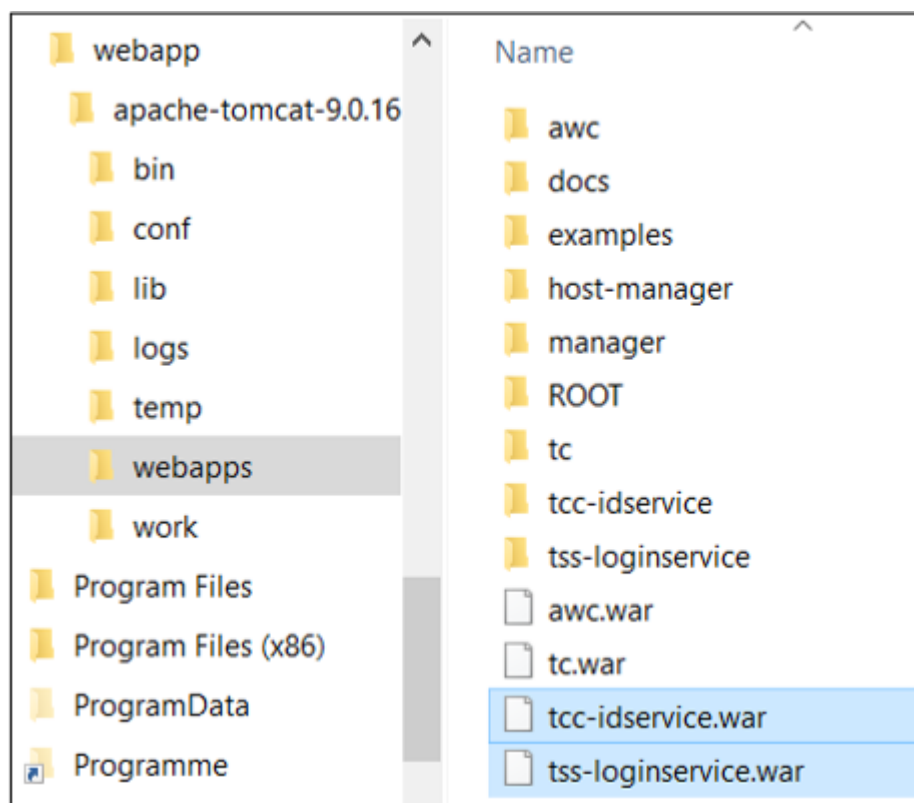
Req	Name	Value
☐	webmaster	change_me_webmaster_name...
☐	identityProvider	com.teamcenter.ss.identity.spi....
☐	identityServicePassword	
☐	passwordLifetime	30
☐	mediatorPassword	
☐	tokenLifetime	600
☐	sessionLifetime	600
☐	tcsso.LogLevel	All authentication events
☐	tcsso.AuthLogDir	c:\plm\SSO\log
☐	LDAPVersion	3
☐	PasswordResetEnabled	false
☐	PasswordResetMessage	
☐	GatewayAliasingEnabled	false
☐	ReferralsEnabled	false
☐	ReferralHopLimit	5
☐	DEBUG	warn

10.2.5 Deploy war-Files

Kopieren



nach



11. TCServer Manager changes

11.1 tcenvpre.bat

In Ordner C:\plm\tc12\pool_manager\confs\tcprod eine Datei mit folgendem Namen erstellen:

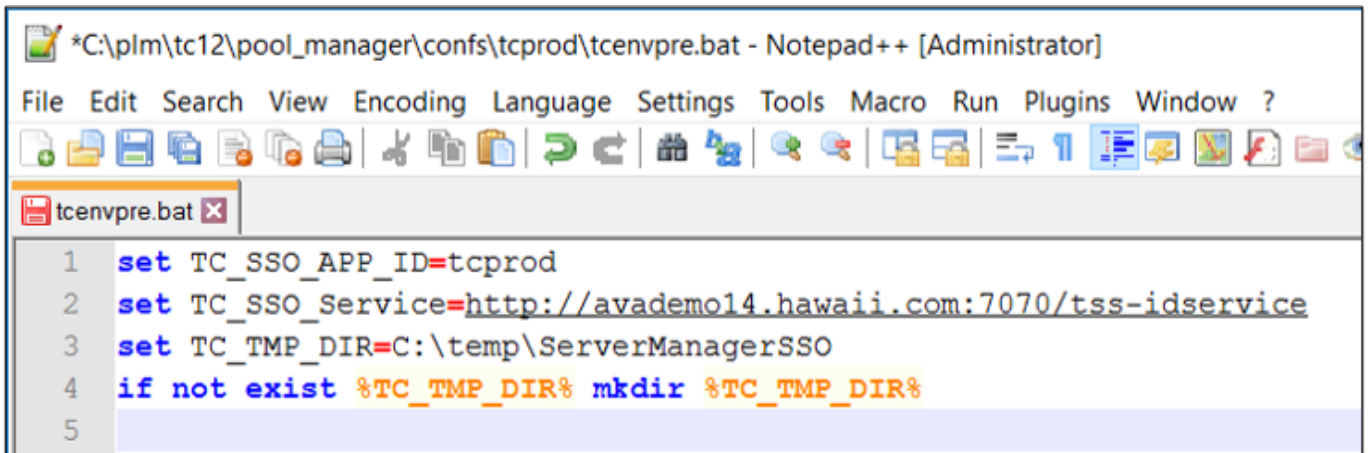
tcenvpre.bat

Inhalt:

```

set TC_SSO_APP_ID=tcprod
set TC_SSO_Service=http://avademo14.hawaii.com:7070/tss-idservice
set TC_TMP_DIR=C:\temp\ServerManagerSSO
if not exist %TC_TMP_DIR% mkdir %TC_TMP_DIR%

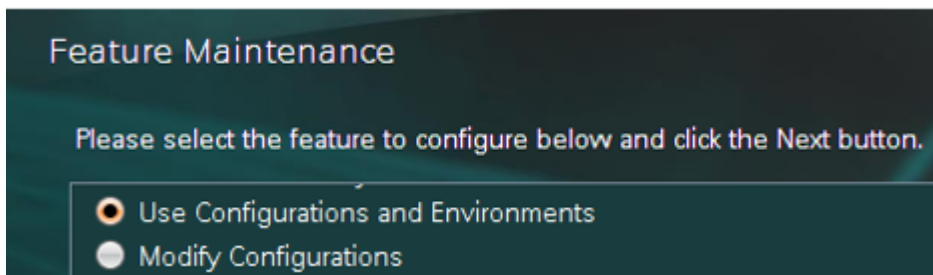
```



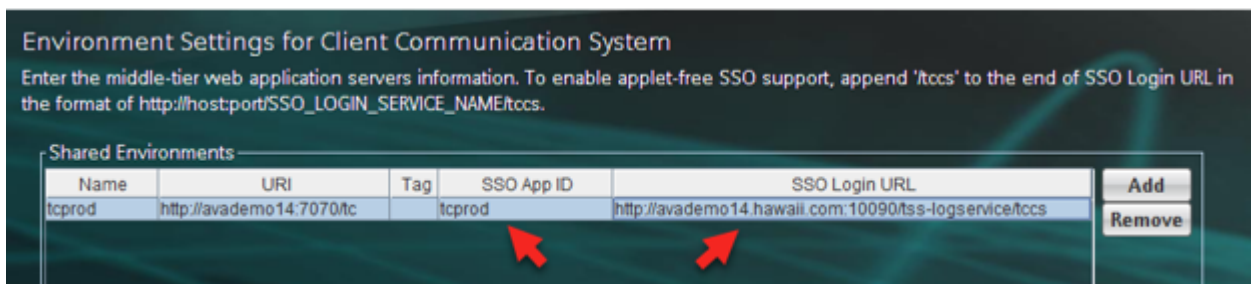
12. TCServer Manager changes

12.1 4-tier Client installation auf tccs umstellen

Feature Maintenance



Environment Settings for Client Communication System

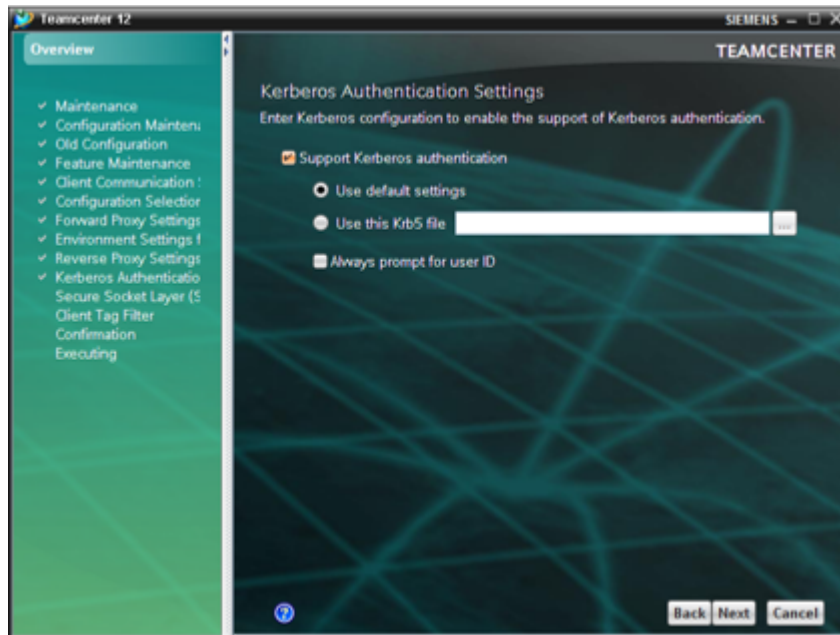


Anpassen:

Name:	tcprod
URI:	http://avademo14:7070/tc
Tag:	
SSO App ID:	tcprod
SSO Login URL:	http://avademo14.hawaii.com:10090/tss-loginservice/tccs

Kerberos Authentication Settings

- ☒ Support Kerberos authentication
 - ☐ Use default settings



12.2 Richclient 4-tier

Einmal anmelden:

Sollte nun ohne Passwortheingabe funktionieren

13. AWC auf SSO umstellen