

Конфигурирование Oracle Certificate Authority.

Игорь Лукьянов

Старший консультант Oracle Application Server 10g



Oracle Certificate Authority (OCA)

предустановлен в инсталляции OAS 10G и освобождает администратора OAS10G от выполнения рутинных задач, связанных с управлением и созданием сертификатов защиты.



Использование Oracle Certificate Authority – OCA

Для успешной работы с ОСА Вы должны быть знакомы с управлением инстанса инфраструктуры OAS 10G и иметь его прединсталлированным на одной из поддерживаемых аппаратных платформ и OS.

Стартовать и останавливать ОСА Вы можете используя утилиты командной строки или Oracle Application Server Control. Откройте URL Application Server Control в броузере:

http://<hostname>.<domain>:1810





Выберите инстанс инфраструктуры.

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В системных компонентах нажмите линк ОСА

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На странице системного компонента OC4J:оса Вы сможете осуществлять запуск, остановку и рестартирование инстанса.

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Запуск серверного процесса ОСА

Серверный процесс ОСА стартуется из коммандной строки: Перейдите в следующую директорию на инфраструктуре: %cd<ORACLE_HOME>/infra/oca/bin

oracle@EDRSR23P1:~/infra/oca/bin		
File Edit Settings Help		
[oracle@EDRSR2:P1 oca]\$ pwd /home/oracle/infra/oca [oracle@EDRSR23P1 oca]\$ ls bin conf lib logs ocaapp.ear [oracle@EDRSR23P1 oca]\$ cd bin [oracle@EDRSR23P1 bin]\$ ls cmdeinst migoca migocai.pl cminst migoca migocai.pl [oracle@EDRSR23P1 bin]\$ [oracle@EDRSR23P1 bin]\$	policy pwdstore sql templates tmp wa ocaclnmk.sql ocanmods.pl ocactl ocamnls.sql	▲ 11et



Запуск серверного процесса ОСА

Серверный процесс OCA стартуется из коммандной строки коммандой: \$ocactl start

[oracle@EDRSR23P1 oca]\$ pwd /home/oracle/infra/oca [oracle@EDRSR23P1 oca]\$ cd bin [oracle@EDRSR23P1 bin]\$ ocactl start

OracleAS Certificate Authority 10g (9.0.4)

Copyright (c) 2003, Oracle Corporation. All rights reserved.

OracleAS Certificate Authority administrator password: welcome1



Запуск серверного процесса ОСА

Серверный процесс ОСА стартуется из коммандной строки коммандой: Дождитесь сообщения о том, что ОСА стартовал

[oracle@EDRSR23P1 oca]\$ pwd /home/oracle/infra/oca [oracle@EDRSR23P1 oca]\$ cd bin [oracle@EDRSR23P1 bin]\$ ocactl start

```
OracleAS Certificate Authority 10g (9.0.4)
```

```
Copyright (c) 2003, Oracle Corporation. All rights reserved.
```

OracleAS Certificate Authority administrator password: welcome1

OCA service started. [oracle@EDRSR23P1 bin]\$



Для осуществления первичного логина в Web ОСА интерфейс Вы должны заполнить необходимую форму и выписать сертификат для Web администратора ОСА. Порты, использующиеся по умолчанию для ОСА:

- 1) https 4400
- 2) http 4401
- Откройте в броузере следующий URL:
- https://<hostname>.<domain>:4400/oca/admin



Если серверный процесс не стартован – Вы увидите следующее сообщение.





Если серверный процесс стартован – Вы увидите Welcome Page.





Нажмите линк к заполнению первичной формы.

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	-
Welcome to OracleAS Certificate Authority	
You have successfully installed and started OracleAS Certificate Authority.	
To manage OracleAS Certificate Authority, you must have a certificate. The next page is an enrollment form that will guide you through the certificate registration process. Enter the appropriate information into the provided fields. Note: you must enter information into all fields marked with an asterisk (*).	
<u>Click here</u> to display the enrollment form.	
If you need assistance while filling out this form, click the Help icon in the upper right corner of the enrollment form page.	
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administrator password	
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Certificate Information	
Certificate Microsoft Base Cryptographic Provider v1.0 Key Store	
Validity Period I year I After you submit, browser will generate your certificate request. Please wait for OCA to espond and avoid multiple submit.	
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При появлении следующего диалога выберите "Yes".





Сертификат будет создан и появится сопроводительная информация.





Импортируйте сертификат в Ваш броузер.

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Your certificate is issued your browser.	. Click on "Import Certificate"	to place the certificate into
Status Serial Number	:VALID :4	
Signature Algorithr	n:RSA _:O=Oracle.C=US	
Usage	:SSL, Encryption	
Key Size: Subject DN	∴512 ⊡CN=Administrator OCA O=	oracle C=US
Not Valid Before	:Wed Feb 04 02:35:58 PST	2004
Not Valid After	:Thu Feb 03 02:35:58 PST 2	2005
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Approved Certificate Information
Your certificate is issued.
Certificate has been successfully imported.
Status :
Serial Number :
Issuing Authority :O=Oracle,C=US
Usage :SSL, Encryption
Key Size: :512
Subject DN CN=Administrator UCA,U=oracle,C=US Not Valid Before Wed Eeb 04.02:35:58 PST 2004
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Administration Home Import to Browser
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Используйте следующий URL для входа в интерфейс OCA администратора:

https://<hostname>.<domain>:4400/oca/admin





Используйте следующий URL для входа в интерфейс пользователя:

https://<hostname>.<domain>:4400/oca/user





Выберите закладку пользовательские сертификаты:





Выберите один из вариантов ассигнования сертификата. По умолчанию – Oracle AS SSO:





При нажатии Submit появится окно логина в SSO:

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Sign In	
Enter your Single Sign-On user name and password to login	
User Name	
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Login Cancel	
Unauthorized use of this site is prohibited and may be subjected to civil and criminal prosecution	
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Enter your Single Sign-On user name and password to login	
Liser Name orcladmin	
Password ******	
Login Cancel	
Unauthorized use of this site is prohibited and may be subjected to civil and criminal prosecutio	'n
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По умолчанию никаких сертификатов нет. Выберите "Get sertificate":

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Выберите Key Store и Certificate Usage:





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Certificate Information	
Certificate Microsoft Base Cryptographic Provider v1.0	
Certificate SSL/Encryption	
After you submit, browser will generate your certificate request. Please wait for OCA to respond and avoid multiple submit.	
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Создастся сертификат и Вы увидите информацию о нем:





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Home User Certificates Copyright (c) 2003, Oracle Corpor	OK Import to Browse Server / SubCA Practice Certificates pration. All rights reserved.	
https://edrsr23p1.us.oracle.com	m:4400/oca/authUserServlet#	//.



Используйте URL

https://<hostname>.<domain>:4400/oca/user.

Закладку "User Certificates",

Выберите вариант "Использование существующего сертификата",

Нажмите "Submit".







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 Use your existing certificate SSL authentication.
C Use manual approval / authentication. Use for advanced user settings.
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Выберите один из существующих сертификатов





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SSO authentication.
O Use your existing certificate SSL authentication.
 Use manual approval / authentication. Use for advanced user settings.
Submit
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Нажмите request certificate.

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♂TIP To submit certificate requ	est clic	:k "Request a	Certificate"				
Download CA Cer	tificate) Dowr	load CRL	CI	nange 4	Authenticatio	n l
Home User Certificates Copyright (c) 2003, Oracle Corporation	<u>Serve</u> . All righ	e <mark>r / SubCA Ce</mark> ts reserved.	ertificates	<u>Practic</u>	e State	ement <u>He</u>	
Interpretation (interpretation) Interpretation)1/oca/a	non/anonInitSer	vlet?FORM		_ 	ocal intranet	



Введите необходимую информацию.

🚰 OracleAS Certificate Authority-Certificate Request Form - Manual A	uthentication - Microso	_ 🗆 🗙
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DN		_
Information		
"Common Name James		
E-Mail Address		
Organizational Unit		
*Organization nirguna		
City/Locality		
State		
Country United States	•	
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Введите информацию о сертификате.

🚰 OracleAS Certificate Authority-C	ertificate Reques	: Form - Manual Authentication - Micros 📃 🗖 🗙
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Address 🙆 https://edrsr23p1.us.oracle	e.com:4401/oca/ano	nServlet 💽 🔗 Go Links »
Contact Information		*
	*Name	James
	E-Mail ID	E-Mail ID or Phone number is required.
	Phone Number	91 8182 255987
	Additional Comments	If you have any comments for the administrator, please
Certificate Information		
	Certificate Key Store	Microsoft Base Cryptographic Provider v1.0
	Certificate Usage	SSL/Encryption
	Validity Period	1 year 💌
Cone		📔 📋 🧮 Local intranet 🦷



Нажмите Submit.





Появится конфирмирующее сообщение о том, что request на сертификат создан.





Нажмите "Ok".





Через панель поиска можно просмотреть информацию о статусе сертификата.

🕘 Oracle	AS Certificate Authority-I	User Ce	rtificates - Ma	anual Authe	nticatio	n – Micr	osoft Inte	r 💶 🗆	IJŇ
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User	Certificates - N	/lanu	ial Authe	nticatio	n				
Use th	is form to search for	certifi	cates, certif	icate requ	uests d	or to re	equest a		
	ate.					Requ		lificate	r r
		llser	Not Valid	Not Valid		Requ	Revocat	ion	
Select	Serial Number	DN	Before	After	Status	Usage	Reason		
	No certificates retrieved.								
⊘ TIP 1	To submit certificate requ	iest cliq	:k "Request a	Certificate				_	
	(Download CA Cer	tificate) (Down	load CRL	C	hange A	Authentica	tion	
Hon Copyright	1e User Certificates t (c) 2003, Oracle Corporation	<u>Serve</u> . All righ	e <mark>r / SubCA Ce</mark> ts reserved.	ertificates	<u>Practic</u>	<u>ce Stat</u>	ement	<u>Help</u>	_
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é						- - -	Local intran	et –	



Используйте в броузере URL

https://<hostname>.<domain>:4400/oca/admin,

Выберите линк "Certificate Management".





Вы увидите требования на сертификаты со статусом "Pending".

File Edit View Favorites Tools Help # Back * # * * * * * * * * * * * * * * * * *
← Back ← →
Home Certificate Management Search Certificate Request All Pending Requests Certificate Management Use this form to approve certificate requests, renew or revoke certificates and to update certificate revocation lists. View Details View Details Select ID User DN Request Request Select ID User DN Request Date Status Number
Home Certificate Management Search Certificate Request All Pending Requests Certificate Management Use this form to approve certificate requests, renew or revoke certificates and to update certificate revocation lists. View Details View Details Request Request Request Select ID Use the DN Request Type Request Select ID Use the DN Request Type Request Select ID Use the DN Request Select ID Issue DN Request Request Request Select ID Issue DN Request Request Request Request Request Request Request Request Request
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Certificate Management Use this form to approve certificate requests, renew or revoke certificates and to update certificate revocation lists. View Details Request Request Request Date Status Number
Use this form to approve certificate requests, renew or revoke certificates and to update certificate revocation lists. View Details Request Request Serial Select ID User DN Type Request Date Status
Use this form to approve certificate requests, renew or revoke certificates and to update certificate revocation lists. View Details Request Serial Select ID User DN Type Request Date Status Number
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Request Request Serial Select ID User DN Type Request Date Status Number
Select ID User DN Type Request Date Status Number
S CN=James,O=nirguna,C=US client February 4, 2004 Pending
Update Certificate Revocation List(CRL)
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Management Management Logs Statement
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Выберите требование и нажмите кнопку "View Details":

🚰 OracleAS Certificate Authority-Certificate Management - Microsoft Internet Explorer 📃 📃 🗙						
File Edit View Favorites Tools Help						
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Home Certificate Management						
Search Certificate Request 💌 All Pending Requests 💌 🤇						
Certificate Management						
Use this form to approve certificate requests, renew or revoke certificates and to update certificate revocation lists.						
Request Request Serial Select ID User DN Type Request Date Status						
CN=James,O=nirguna,C=US client February 4, 2004 Pending						
Update Certificate Revocation List(CRL)						
Home Certificate Configuration View Practice Management Management Logs Statement Help Copyright (c) 2003, Oracle Corporation. All rights reserved. Image: Construction of the second						
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Вы увидите подробную информацию о требовании:





Подвердите требование на выписку сертификата:

🚰 OracleAS Certificate Authority-Certificate Request Details - Microsoft Internet Explorer 👘 💶 🗖 🗙
File Edit View Favorites Tools Help
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Status :PENDING
Certificate Type I:client Certificate Usage:SSL Encryption
Serial Number :5
Subject DN :CN=James,O=nirguna,C=US
Request Date :Wed Feb 04 05:06:19 PST 2004
Exponent :65537
Subject(Requestor)
Subject CN=James,O=nirguna,C=US
Validity
Validity Period 365 days
Approve Reject OK
Home Certificate Configuration View Practice Help
Copyright (c) 2003, Oracle Corporation. All rights reserved.
🛎 https://edrsr23p1.us.oracle.com:4401/oca/authUserServlet#



Вы увидите подтверждающее сообщение:





Нажмите "Ok":





Убедитесь, что больше нет требований на сертификаты:

🚈 OracleAS Certificate Aut	hority-Certifi	ate Managen	nent - Microsoft Ir	nternet Explorer			
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Oracle Application Server							
Certifica	te Aut	hority	Home	V Certificate Ma	anagement		
Search Certificate Request - All Pending Requests -							
Use this form to approve certificate requests, renew or revoke certificates and to update certificate revocation lists.							
Request ID	User DN Re	quest Type	Request Date	Status Serial N	lumber		
No requests retrieved.							
Update Certificate Revocation List(CRL)							
Home Certificate Management ◀	I <u>Cor</u> Mai	nfiguration nagement	I <u>View</u> Logs	<u>Practice</u> <u>Statement</u>	∣ <u>Help</u> ▶		
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