

DNS Task

1. Register free domain (...pp.ua) <https://nic.ua/en/domains>

The screenshot shows the 'Domains' section of the nic.ua website. On the left is a sidebar with navigation links: Dashboard, Domains (active), Name Servers, Hosting, Cloud, SSL-certificates, Account Balance, Invoices, Payment Cards, Contacts, Settings, and Referral Program. The main content area is titled 'Domains' and has buttons for 'Register domain' and 'Transfer domain'. Below these is a table with columns: Domain, NS, Expiry date, Order, and AR. One domain is listed: 'kostroba.pp.ua' with NS 'Parking NS', Order '2345558', and a 'Renew' button. Below the table are 'Renew' and 'Change NS' buttons. A search bar is in the top right.

Domain	NS	Expiry date	Order	AR
<input type="checkbox"/> kostroba.pp.ua <small>Requires card connection</small>	Parking NS		2345558	<input type="checkbox"/> Renew

2. Activate created domain

The screenshot shows the 'DRS' website with a confirmation message in Ukrainian: 'Готово! Домен KOSTROBA.PP.UA підтверджений і готовий до використання.' (Ready! Domain KOSTROBA.PP.UA is confirmed and ready for use). The footer mentions 'ТОВ «Сервіс Онлайн», 2001–2023'. Language links 'UK RU EN' are in the top right.

3. Register new AWS Account <https://portal.aws.amazon.com/billing/signup#/start/email>
Registered:

The screenshot shows the 'Contact information' section of the AWS account registration page. It contains the following details:

Full name	Ivan Kostroba	Company name	None
Phone number	+380 664104156	Website URL	None

4. Create Hosted Zone in Route 53 (name of hosted zone should be the name of registered domain on <https://nic.ua/en/domains>).
Created:

Public **kostroba.pp.ua** Info Delete zone Test record Configure query logging

► **Hosted zone details** Edit hosted zone

Records (2) | DNSSEC signing | Hosted zone tags (0)

Records (2) Info
Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

Refresh Delete record Import zone file Create record

Type ▼ Routing policy ▼ Alias ▼ < 1 > ⚙

<input type="checkbox"/>	Record ... ▲	Type ▼	Routin... ▼	Differ... ▼	Alias ▼	Value/Route traffic to ▼	TTL (s... ▼	Health ... ▼
<input type="checkbox"/>	kostroba....	NS	Simple	-	No	ns-855.awsdns-42.net. ns-185.awsdns-23.com. ns-1306.awsdns-35.org. ns-1793.awsdns-32.co.uk.	172800	-
<input type="checkbox"/>	kostroba....	SOA	Simple	-	No	ns-855.awsdns-42.net. awsd...	900	-

5. Copy NS records in hosted zone and Change NS-servers setting to 'Custom name server' on nic.ua and paste copied NS records

Done:

Value/Route traffic to ▼

ns-855.awsdns-42.net.
ns-185.awsdns-23.com.
ns-1306.awsdns-35.org.
ns-1793.awsdns-32.co.uk.

Copied into:

NS-servers

Custom name servers ▼

List of your own name servers [Change](#)

1. ns-1793.awsdns-32.co.uk

2. ns-855.awsdns-42.net

3. ns-185.awsdns-23.com

4. ns-1306.awsdns-35.org

6. Check NS records of your domain using dig or nslookup commands (you should see NS

records from hosted zone)

```
student@CsnKhai:~$ dig kostroba.pp.ua

; <<> DiG 9.9.5-3ubuntu0.5-Ubuntu <<> kostroba.pp.ua
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 18248
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1


;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;kostroba.pp.ua.                IN      A


;; AUTHORITY SECTION:
kostroba.pp.ua.                3500    IN      SOA     ns-855.awsdns-42.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400

;; Query time: 17 msec
;; SERVER: 172.21.240.1#53(172.21.240.1)
;; WHEN: Sat Aug 19 21:36:39 UTC 2023
;; MSG SIZE rcvd: 127
```

7. Create A and CNAME records in hosted zone.









Records (4) [Info](#)
Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

 Delete record Import zone file Create record

Type ▼ Routing pol... ▼ Alias ▼ < 1 > 

<input type="checkbox"/>	Record name ▼	Type ▼	Routin... ▼	Differ... ▼	Alias ▼	Value/Route traffic to ▼	TTL (s... ▼	He
<input type="checkbox"/>	kostroba.pp.ua	A	Simple	-	No	91.200.181.126	60	-
<input type="checkbox"/>	kostroba.pp.ua	NS	Simple	-	No	ns-855.awsdns-42.net. ns-185.awsdns-23.com. ns-1306.awsdns-35.org. ns-1793.awsdns-32.co.uk.	172800	-
<input type="checkbox"/>	kostroba.pp.ua	SOA	Simple	-	No	ns-855.awsdns-42.net. awsd...	900	-
<input type="checkbox"/>	google.kostroba.pp.ua	CNAME	Simple	-	No	google.com	60	-

8. *Set latency routing policy for two DNS records.

Record details		Record details	
 		 	
<div>Edit record</div>		<div>Edit record</div>	
Record name		Record name	
 google.kostroba.pp.ua		 kostroba.pp.ua	
Record type		Record type	
CNAME		A	
Value		Value	
 google.com		 91.200.181.126	
Alias		Alias	
No		No	
TTL (seconds)		TTL (seconds)	
II 60		I 60	
Routing policy		Routing policy	
Latency		Latency	
Region		Region	
Europe (Stockholm)		Europe (Frankfurt)	
Record Id		Record Id	
2		1	

9. *Check created dns records using dig or nslookup commands.
CNAME forwarded the request to google dns (logically):

```

student@CsnKhai:~$ dig google.kostroba.pp.ua

; <<>> DiG 9.9.5-3ubuntu0.5-Ubuntu <<>> google.kostroba.pp.ua
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 41641
;; flags: qr rd ad; QUERY: 1, ANSWER: 10, AUTHORITY: 0, ADDITIONAL: 0
;; WARNING: recursion requested but not available

;; QUESTION SECTION:
;google.kostroba.pp.ua.          IN      A

;; ANSWER SECTION:
google.kostroba.pp.ua.  0      IN      CNAME   google.com.
google.com.            0      IN      A       216.58.215.78
ns1.google.com.        0      IN      A       216.239.32.10
ns2.google.com.        0      IN      A       216.239.34.10
ns3.google.com.        0      IN      A       216.239.36.10
ns4.google.com.        0      IN      A       216.239.38.10
ns1.google.com.        0      IN      AAAA    2001:4860:4802:32::a
ns2.google.com.        0      IN      AAAA    2001:4860:4802:34::a
ns3.google.com.        0      IN      AAAA    2001:4860:4802:36::a
ns4.google.com.        0      IN      AAAA    2001:4860:4802:38::a

;; Query time: 78 msec
;; SERVER: 172.21.240.1#53(172.21.240.1)
;; WHEN: Sat Aug 19 22:04:53 UTC 2023
;; MSG SIZE rcvd: 398

student@CsnKhai:~$ █

```

```

student@CsnKhai:~$ dig kostroba.pp.ua

; <<>> DiG 9.9.5-3ubuntu0.5-Ubuntu <<>> kostroba.pp.ua
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 30520
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;kostroba.pp.ua.          IN      A

;; AUTHORITY SECTION:
kostroba.pp.ua.          1752    IN      SOA      ns-855.awsdns-42.net. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400

;; Query time: 7 msec
;; SERVER: 172.21.240.1#53(172.21.240.1)
;; WHEN: Sat Aug 19 22:05:47 UTC 2023
;; MSG SIZE rcvd: 127

student@CsnKhai:~$ █

```