

AF40G24AC RPC-API GUIDE Advanced Features | 3.0.9

AF40G24AC

The RPC-API service must be enabled, by default it is disabled. The RPC-API service default port number is 80. The default port number for the HTTP service is also port 80. The system will not allow both the RPC-API and the HTTP services to use port 80. If it is desired that the RPC-API and HTTP services be enabled simultaneously, set the RPC-API service to another port number. In this example, the RPC-API port number will be set to 2000. The RPC-API service for the AFs uses JSON over HTTP protocol to communicate with your API application program. The Postman API Development Tool is used in the procedure.

Connect to the Advanced Features unit:

A connection to the unit may be established using two options:

- a) Directly connected to the Console Interface COM Port using Putty/Serial connection.
- b) Connected via the IP Management Interface using Putty/SSH connection.

1. Log in to the Advanced Features unit, (admin/gtadmin1).

2. Enter the following commands to show the services status:

Switch# enable Switch# show ser	vices			
Networking servi	.ces configura	tion:		
Service Name	Status	Port	Protocol	Service ACL
http	enable	80	TCP	-
https	disable	443	TCP	-
rpc-api	disable	-	TCP	-
telnet	enable	23	TCP	-
ssh	enable	22	TCP	-
snmp	disable	161	UDP	-

Switch#

3. Enter the following commands to enable the RPC-API service:

```
Switch# configure terminal
Switch(config)# service rpc-api enable port 2000
Switch(config)# exit
```



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Networking ser	vices configur	ation:		
Service Name	Status	Port	Protocol	Service A
	+	+	+	-+
		90	TOD	
http	enable	80	TCP	_
http https	enable disable	443	TCP	_
http https rpc-api	enable disable enable	443 2000	TCP TCP TCP	-
http https rpc-api telnet	enable disable enable enable	443 2000 23	TCP TCP TCP TCP	-
http https rpc-api telnet ssh	enable disable enable enable enable	443 2000 23 22	TCP TCP TCP TCP TCP	

4. Re-enter the following command to show the services status:

5. Launch the Postman API Development Tool.

Postman			- 🗆 ×
H New Timport Runner	👪 My Workspace 👻 💰 Invite	V & A & O	🕒 Upgrade 🔻
Q Filter	POST 192.165.1.230.2000/api/cmd • •	No Environment	v 💿 🔅
	Untitled Request		Comments (0)
T New Art	POST v 192.168.1.230:2000/api/cmd_api/	Send	▼ Save ▼
No APIs yet APIs define related collections and environments under a consistent schema.	Params Authorization Headers () Body Pre-request Script Tests Settings		Cookies Code
	● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL tatA JSON ▼		Beautify
Create an API			
	Response		
	Hit Send to get a response		
E 9 E	Param.	☺ Bootcamp Build Brows	e 💀 🙀 ?

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- 6. Select Post
- 7. Enter the complete URL for the AF: AF IP Address:2000/api/cmd_api/
- 8. Select Body
- 9. Select raw
- 10. Select JSON

The RPC-API commands uses a JSON format. Special attention must be made when entering the commands. The following example will show the Advanced Features firmware version.

```
{
    "params":{
        "format":"json",
        "version":1,
        "cmds":["end","enable","show version","end"]
    }
}
```

11. Select the Send option.

💋 Postman		- 🗆 ×
File Edit View Help How Import	👪 My Workspace 👻 🎝, Invite	🕑 📽 🎜 🏘 💽 Upgrade 🔻
Q Filter	Post 192.168.1.230.2000/api/cmd • + ••••	No Environment 💌 🐵 🔅
History Collections APIs BETA	Untitled Request	Comments (0)
+ New API C	POST + 192.168.1.230.2000/api/cmd_api/	Send 🔻 Save 👻
No APIs yet	Pre-request Script Tests Settings	Cookies Code
APIs define related collections and environments under a consistent schema.	none form-data x-www-form-uriencoded raw binary GraphQL BETA JSON	Beautify
Create an API	1 - () 2 - ("parass":(3 "formst":"sion", 4 "version"1, 5 "cass":["end","enable","show version","end"] 5)	
	Response	
	Hit Send to get a response	
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 Pre-request Script Tests Settings APIs define related collections and none
 form-data
 x-www-form-urlencoded
 raw
 binary
 GraphQL
 BETA
 JSON
 Beautify environments under a consistent schema. 1 • { 2 • 3 4 5 "params":("format":"json", "version":1, "cmds":["end","enable","show version","end"] } Create an API 6 } 7 } Preview Visualize BETA JSON 🔻 🚍 Q (Т "result": ["0": {
 "cmd": "end",
 "ern_code": 0,
 "ern_resson": "",
 "error": false,
 "sequence": 0,
 "sourceDetails": " end\r\n" 10 11 12 13 14 },
 "1": {
 "cmd": "enable",
 "err_code": 0,
 "err_code": "" I 9 E
- 12. The results will be displayed in the bottom panel. Use the slide bar to view the entire results.