Generate Key Pair (RS256)

Linux & Windows

Step 1: Generate Private Key

openssl genpkey —algorithm RSA —out duitnow_pay_priv.key —pkeyopt rsa_keygen_bits:2048



duitnow_pay_priv.key | file will be generated with content like below,

----BEGIN PRIVATE KEY----

MIIEvQIBADANBgkqhkiG9w0BAQEFAASCBKcwggSjAgEAAoIBAQDS1FoHuAOTqSmrGatYuIAEVKPefOlfpBUGcVAPyPXO6AXlXNe4ZIV/+11wbo7oABaXmYdh6G3msn37OFZxqsR6do37hBmEPRvfezhezJqrVmz92iayt5fg3F5S5+uRcnFafmCv0xHUVchfiyn29DkdUpyjqMFLdB3GCKGV73viJnEXC7x6Zc3ydZu4vuecD6+7gb9irdDNubjGeQxpPsi21eNv8zCEkb9D662/UiDw7MFXAu2jTaMpPiU1Kar2Dm4apW1UY53Yj6HPC8vCtrhE0anSw511ehdPW96tzF0mqr4aWRsz0CXMlkvso0mHqxHKsWMyzBvtFCE7ABe0vZJ/AgMBAAECggEAVhhnx50qwMM1A/1Qjs0Ra7NQ1Au4ldkAyQe/BSMw11TEC501btSF+/Sd2p8bdryKfVAyDBaJwtsDPXMNQg/VepktdBfG/8ygtEuygmwVgYCis6vBf9wfhrEXR83z0gqlJapU05j7P/XkBLhk47dqF4Jj+yVwAish+Xw02JbaxUf1gP41LJnC1Vu0Ai15h90Rl3VMerUiEl0/8oZhCG4B/6VWH86f9bYZpBaQd12UMXe+dZXeu8hEENChxMRADsjE2UdA3qx5EyME2zV10+//wbjRIrcRCqVaaMsBF8WGY16IHyWAEARh01o3IqVy9rKwq8zTBph5nKX7edvQwarBaQKBgQD1bDLkYMuEeA+hnnpxvi/PFgf5+qIxGvwDz7soZEjM7lgDLtyy6BMCH3i9qNe9CyZpNzdC4GTB+Enkr5NkHQ1Uplm0tTLReblNQkd9szw0qyLNFjPYPihKzGRMSLlqpyNEa6ZcC5TqyOYnp0xr

MtHbyE1xTaH5X0W9IdR7Ssz8zQKBgQDb6nqpQoY27fj0wbS2tT1T8rBhfsu1qk+RP6V+VLoK162tPYgrLE+bRPNNAdhRStWVKu+opCM9aTE3czFG4rsCTjI3mUG7R96kiLCDf9iZHLbv1WuWLQ1Rv01MaBc9n9eWyJhzBVUWYZxbDbEJPZkjWh6zytN907DVJ07dUgCMewKBgQCgjeo1UcWSoeDIAJ917d/1ACqzt02KZnbcH3f3ErQ1r09TFcM4H27gAqrAmMaaW8MDLiYu0BHae44L13j7E6vY/wKzw4K9W36INoYCi9EMX5TiylWcb/14AYLUDPeP+EuwJSSuLr17Y3Z+Fop9zr9PoxhWuUzvkQ5Ujt8s0WCNOQKBgCCqsPPJjPRF3zBEQdr0C0EYELk6w3nFxbH2uVeNsGEB7quIM1zuZRjUYiuzNXXF3voceaMcVpu9r3DkLJKyBUNvaCg4HLp8D4dzQn0WFY+Q41+23Rdes9bLyuipoaImxzh/rZ2QUjZT44zm+MA9pSzKKztbypSUtEzFArJfhvNXAoGAXtlevTfhiHQ0AJzCYe8LTIxT6Xz3haEjDJo0PntIybR1E41aaApzmTPJYdi5faY7/CowSI3hcCoxqkt8K/ImTko6JRVyiW5nhwx4w32TSHWsLqt0pJ0sVDBVYA4e230CaEY9K5uQhhkQnAbAxBEVYauC4mlPLKyq3tYBMEBAKQQ=-----ENDPRIVATEKEY----

Step 2: Generate CSR

Using the private key generated in Step 1, duitnow_pay_priv.key in case, to generate certificate sign request,

```
openssl req -out duitnow_pay.csr -key duitnow_pay_priv.key -new -sha256
```

Questions will be prompted during CSR generation, please answer by referring the following tables, skip challenge password,

Country Name (C)	Country Code: MY
State/County/Region (S)	State: Kuala Lumpur
City/Locality (L)	Postcode: 59200

Organization Name (O)	Applicant's organization name. For example: MerchantX Sdn Bhd
Organizational Unit (OU)	Indicate the name of the product or service. For example: • DuitNow Pay
Common Name (CN)	Assign the appropriate value based on your application type: • Project ID (Project ID can be found after a project created in Developer Portal)
Email Address (E)	Business email address

You are about to be asked to enter information that will be incorporated into your certificate request. What you are about to enter is what is called a Distinguished Name or a DN. There are quite a few fields but you can leave some blank For some fields there will be a default value, If you enter '.', the field will be left blank. ----- Country Name (2 letter code) [XX]:MY State or Province Name (full name) []:Kuala Lumpur Locality Name (eg, city) [Default City]:59200 Organization Name (eg, company) [Default Company Ltd]:MerchantX Sdn Bhd Organizational Unit Name (eg, section) []:DuitNow Pay Common Name (eg, your name or your server's hostname) []:P12345678 Email Address []:supportamerchantX.my

Please enter the following 'extra' attributes to be sent with your certificate request A challenge password []: An optional company name []:

duitnow_pay.csr file will be generated with content like below,

----BEGIN CERTIFICATE REQUEST----

MIIC6DCCAdACAQAwqaIxCzAJBqNVBAYTAk1ZMRUwEwYDVQQIDAxLdWFsYSBMdW1w dXIxDjAMBqNVBAcMBTU5MjAwMRowGAYDVQQKDBFNZXJjaGFudFqqU2RuIEJoZDEY MBYGA1UECwwPUGF5TmV0IENoZWNrb3V0MREwDwYDVQQDDAhNMDAwMDIzMzEjMCEG CSqGSIb3DQEJARYUc3VwcG9ydEBtZXJjaGFudFqubXkwqqEiMA0GCSqGSIb3DQEB AQUAA4IBDwAwqqEKAoIBAQDJZon2qSPBcaY+XebVjUGkR4qJd1FILJ5dBbPFcV6W 4rTMYYYyYNPelBnJDLdcI6/8M3xtD/0mVRNGoVifaQ731WNjboYTjKbhyqSBnq/c Y10U4NHqS40pFKT6Dc473K//hJYX9z9bj8u33DEnu9wW1GqR311RPJnSq6uM3YCM 98eCywCZRNMUSiNedUyxjCd69VwMQCkzyfdh/WHSPV4qOd0VU8ftu8neuN4SX8D7 7ribClCqCCMZ1BVo9Btzq/c3SaLKWDqoHW8KSDKaCI4rrMo1o/tiobnPnU5ujSBw prVQN7wTV2S0YM/h4TbY2V59k4iB/onBvKxVxSuSDEHnAqMBAAGqADANBqkqhkiG 9w0BAQsFAA0CAQEAXc8h65yBnRtVKLaM0wx3A4dCmZQZEMFZYevtSWBTKz/tFrpB BpYhwlqSQ6QivJsSjwOe/vqQ0ZtDqOq2/+qCtQjfwmKe/+4Vbtp6w3EktuTIA2Ia RCkoCeeqRTB5PigGu7fLMGUVhM6G7A/q1Fqi5107EZMc0279hoIPtP3lo3zD4ASc 3wNAe7PE82afoATxekHxIJS9zS0qNGjqFXYqYKU8FXhEqsVrkEsaOTTc3/akmcBR smHhy6TWwCz3s0jQp81+4UYaUsKwbtI1+ejWZSkMGkE3EoS8oO0s/YPiAxwtRCqQ QLXYO5iRNSeOEaOcSqdvxvTjOoJt8FLft5KX4A== ----END CERTIFICATE REQUEST----

Step 3: Upload duitnow_pay.csr to Developer Portal during system verification stage.