General Purpose APIs

General purpose configuration queries will have the **config** resource name as part of the query string. You can only retrieve configuration information (GET), and cannot perform any changes (POST, DELETE) in this release. You can specify the device type to indicate the device from which you need the configuration from the appliance .

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Querying for the System Time

Sample Request

```
GET /esa/api/v2.0/config/system_time?
HTTP/1.1
cache-control: no-cache
Authorization: Basic YWRtaW46Q2lzY28xMjMk
Accept: */*
Host: esa.example.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.0 200 OK
Server: API/2.0
Date: Thu, 12 Apr 2018 18:06:32 GMT
Content-type: application/json
Content-Length: 121
Connection: close
{
    "data": {
        "continent": [
            "Asia",
            "India",
            "Kolkata"
        ],
        "time": "Thu Apr 12 23:38:05 2018 IST",
        "timezone": "Asia/Kolkata"
```

```
    }
}
```

Querying for Managed Email Security Appliances' Information

Sample Request

```
GET /esa/api/v2.0/config/appliances?
HTTP/1.1
cache-control: no-cache
Authorization: Basic YWRtaW46Q2lzY28xMjMk
Accept: */*
Host: esa.example.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.0 200 OK
Server: API/2.0
Date: Thu, 12 Apr 2018 18:09:07 GMT
Content-type: application/json
Content-Length: 341
Connection: close
{
    "data": {
        "appliances": [
            {
                "123A45B6C678-1CDEFG2": {
                    "host_name": "esa11.1",
                    "ip_address": "10.76.69.29",
                    "product_type": "ESA"
                }
            },
            {
                "123A45B6C678-1CDEFG3": {
                    "host_name": "esa11.0",
                    "ip_address": "10.76.68.224",
                    "product_type": "ESA"
                }
            },
            {
                "123A45B6C678-1CDEFG3": {
                    "host_name": "esa10.0.2",
                    "ip_address": "10.76.71.63",
                    "product_type": "ESA"
                }
            }
        ]
    }
}
```

Retrieving APIs Accessible to a User Role

You can retrieve a list of APIs that are available for a currently logged in user.

Synopsis	`GET /api/v2.0/login/privileges`

Request Headers	Host, Accept, Authorization
Response Headers	Content-Type, Content-Length, Connection

Sample Request

```
GET /esa/api/v2.0/login/privileges
HTTP/1.1
cache-control: no-cache
Postman-Token: a7eca7b8-0656-43db-b692-812396a86976
Authorization: Basic YWRtaW46SXJvbnBvcnQxMjMk
Accept: */*
Host: esa.example.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.0 200 OK
Server: API/2.0
Date: Thu, 12 Apr 2018 14:17:44 GMT
Content-type: application/json
Content-Length: 4392
Connection: close
{
    "data": [
        "e_message_tracking_messages",
        "e_message_tracking_detail",
        "e_message_tracking_availability",
        "e_message_tracking_verdict",
        "e_message_tracking_dlp_details",
        "e_message_tracking_amp_details",
...
...
        "e_config_macro_file_types",
        "e_config_geo_countries",
        "e_config_tracking_query_timeout",
        "e_config_spam_quarantine_appearance_details",
        "esa_config_users",
        "e_config_euq_authentication_method",
        "e_config_euq_url_details"
    ]
}
```

Health API

You can retrieve information about system health using the health API.

Synopsis	`GET /api/v2.0/health/`
Request Headers	Host, Authorization
Response Headers	Content-Type, Content-Length, Connection

Sample Request

```
GET /esa/api/v2.0/health
HTTP/1.1
cache-control: no-cache
Postman-Token: a7eca7b8-0656-43db-b692-812396a86976
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
Accept: */*
Host: esa.example.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.0 200 OK
Server: API/2.0
Date: Thu, 12 Sept 2019 14:17:44 GMT
Content-type: application/json; charset=UTF-8
Content-Length: 5782
Connection: close
{
    "meta": {
        "totalCount": -1
    },
    "data": {
        "percentage_ram_utilization": 5,
        "messages_in_pvo_quarantines": 0,
        "resource_conservation": 0,
        "messages_in_workqueue": 0,
        "percentage_swap_utilization": 0.0,
        "percentage_queue_utilization": 0.0,
        "percentage_diskio": 0,
        "retry_delivery": "Scheduling all messages for delivery.",
        "percentage_cpu_load": 13,
        "reset_counters": "Counters have been reset.",
        "delivery_status": [

            {
                "soft_bounces": 0,
                "latest_host_status": "Unknown",
                "hard_bounces": 0,
                "active_recipients": 0,
                "destination_domain": "funny.com",
                "connections_out": 0,
                "delivered_recipients": 10232
            },
            {
                "soft_bounces": 0,
                "latest_host_status": "Unknown",
                "hard_bounces": 0,
                "active_recipients": 0,
                "destination_domain": "hello.com",
                "connections_out": 0,
                "delivered_recipients": 18328
            },
            {
                "soft_bounces": 0,
                "latest_host_status": "Unknown",
                "hard_bounces": 0,
                "active_recipients": 0,
                "destination_domain": "sleep.com",
                "connections_out": 0,
                "delivered_recipients": 18328
            },
            {
                "soft_bounces": 0,
                "latest_host_status": "Unknown",
```

```
            "hard_bounces": 0,
            "active_recipients": 0,
            "destination_domain": "stark.com",
            "connections_out": 0,
            "delivered_recipients": 27492
        },
        {
            "soft_bounces": 0,
            "latest_host_status": "Unknown",
            "hard_bounces": 0,
            "active_recipients": 0,
            "destination_domain": "the.encryption.queue",
            "connections_out": 0,
            "delivered_recipients": 0
        },
        {
            "soft_bounces": 0,
            "latest_host_status": "Up",
            "hard_bounces": 0,
            "active_recipients": 0,
            "destination_domain": "the.euq.queue",
            "connections_out": 0,
            "delivered_recipients": 79
        },
        {
            "soft_bounces": 0,
            "latest_host_status": "Unknown",
            "hard_bounces": 0,
            "active_recipients": 0,
            "destination_domain": "the.euq.release.queue",
            "connections_out": 0,
            "delivered_recipients": 0
        }
    ],

    "system_status": {
        "rates": [
            {
                "total_completed_recipients_rate_five": 8957,
                "delivered_recipients_rate_one": 8440,
                "messages_received_rate_five": 8824,
                "hard_bounced_recipients_rate_one": 0,
                "hard_bounced_recipients_rate_fifteen": 0,
                "total_completed_recipients_rate_fifteen": 8762,
                "recipients_received_rate_one": 8380,
                "total_completed_recipients_rate_one": 8440,
                "soft_bounced_events_rate_one": 0,
                "delivered_recipients_rate_fifteen": 8762,
                "recipients_received_rate_fifteen": 8759,
                "soft_bounced_events_rate_fifteen": 0,
                "messages_received_rate_one": 8380,
                "soft_bounced_events_rate_five": 0,
                "messages_received_rate_fifteen": 8759,
                "delivered_recipients_rate_five": 8957,
                "recipients_received_rate_five": 8824,
                "hard_bounced_recipients_rate_five": 0
            }
        ],
    "version_details": [
            {
                "build_date": "2020-05-12",
                "operating_system": "13.5.1-254",
                "install_date": "2020-05-14 02:34:26",
                "raid_status": "Unknown",
```

```
            "serial_number": "4215B52370871114B954-609E45EE2D03",
            "model": "C300V"
        }
    ],
"gauges": [
        {
            "ram_utilization": "5%",
            "email_security_appliance": "3%",
            "msgs_in_work_queue": 0,
            "disk_io_utilization": "0%",
            "total_active_recipients": 0,
            "current_outgoing_connections": 0,
            "total_queue_utilized": "0.0%",
            "anti_virus": "0%",
            "msgs_in_quarantine": 0,
            "quarantine": "0%",
            "reporting": "2%",
            "space_used_by_quarantine": "0B",
            "unattempted": 0,
            "logging_disk_utilization": "4%",
            "attempted": 0,
            "anti_spam": "25%",
            "logging_disk_available": "350G",
            "current_incoming_connections": 1,
            "total_queue_space_used": "1KB",
            "overall_cpu_load": "13%",
            "dest_objects_in_memory": 7
        }
    ],
    "mail_system_status": [
        {
            "up_since": "4d 2h 12m 24s",
            "system_status": "Online",
            "oldest_message": "No Messages",
            "status_as_of": "Thu May 14 02:32:20 2020 GMT"
        }
    ],
    "counters": [
        {
            "dns_reqs_reset": 7,
            "dns_hard_bounces_reset": 0,
            "total_hard_bounces_reset": 0,
            "dropped_messages_uptime": 0,
            "deleted_recipients_uptime": 0,
            "net_reqs_lifetime": 13,
            "dk_signed_lifetime": 0,
            "dropped_messages_reset": 0,
            "messages_received_uptime": 862484,
            "expired_hard_bounces_uptime": 0,
            "rejected_recipients_reset": 0,
            "expired_hard_bounces_reset": 0,
            "rejected_recipients_uptime": 0,
            "expired_lifetime": 6,
            "global_unsub_hits_reset": 0,
            "recipients_received_uptime": 862484,
            "five_xx_hard_bounces_uptime": 0,
            "cache_misses_reset": 0,
            "filter_hard_bounces_reset": 0,
            "five_xx_hard_bounces_lifetime": 0,
            "other_hard_bounces_reset": 0,
            "dns_hard_bounces_uptime": 0,
            "other_hard_bounces_lifetime": 0,
            "total_hard_bounces_uptime": 0,
            "cache_hits_reset": 7,
```

```
                        "rejected_recipients_lifetime": 7,
                        "dns_reqs_uptime": 862794,
                        "net_reqs_uptime": 7,
                        "deleted_recipients_lifetime": 0,
                        "delivered_recipients_uptime": 862484,
                        "dns_reqs_lifetime": 1298528,
                        "exceptions_lifetime": 1298515,
                        "delivered_recipients_lifetime": 1311178,
                        "exceptions_reset": 7,
                        "delivered_recipients_reset": 0,
                        "total_completed_recipients_lifetime": 1311178,
                        "cache_misses_lifetime": 13,
                        "generated_bounce_recipients_uptime": 0,
                        "total_completed_recipients_uptime": 862484,
                        "net_reqs_reset": 0,
                        "pending_requests": 0,
                        "global_unsub_hits_uptime": 0,
                        "cache_hits_uptime": 862794,
                        "dk_signed_uptime": 0,
                        "other_hard_bounces_uptime": 0,
                        "last_counter_reset_str": "Mon May 18 04:44:43 2020 GMT",
                        "generated_bounce_recipients_reset": 0,
                        "deleted_recipients_reset": 0,
                        "messages_received_lifetime": 1312025,
                        "soft_bounced_events_uptime": 0,
                        "recipients_received_reset": 0,
                        "filter_hard_bounces_uptime": 0,
                        "expired_hard_bounces_lifetime": 0,
                        "recipients_received_lifetime": 1312025,
                        "total_hard_bounces_lifetime": 0,
                        "dk_signed_reset": 0,
                        "filter_hard_bounces_lifetime": 0,
                        "soft_bounced_events_lifetime": 0,
                        "dropped_messages_lifetime": 847,
                        "outstanding_requests": 0,
                        "cache_hits_lifetime": 1298528,
                        "generated_bounce_recipients_lifetime": 0,
                        "cache_misses_uptime": 7,
                        "soft_bounced_events_reset": 0,
                        "global_unsub_hits_lifetime": 0,
                        "total_completed_recipients_reset": 0,
                        "messages_received_reset": 0,
                        "expired_uptime": 5,
                        "five_xx_hard_bounces_reset": 0,
                        "dns_hard_bounces_lifetime": 0,
                        "expired_reset": 0,
                        "exceptions_uptime": 862787
                    }
                ]
            },
            "delivery_status_detail": []
        }
    }
```