

Create Realm and List Realm Settings Endpoints

Introduction

Use the `/realms` POST endpoint to create new realms from a template `web.config` and the `/realms/<realm ID>` GET endpoint to list the current realm's settings.

Prerequisites

1. Complete the Enablement and Header Steps in the [Admin API Guide](#)
2. Have access to the application code that calls to the API endpoint(s)

/realms Endpoints

The following endpoints are prepended with the URL, `https://<SecureAuth IdP Domain>/api/v1` if running **SecureAuth IdP v9.1**
– or `https://<SecureAuth IdP Domain>/api/v2` if running **SecureAuth IdP v9.2 or later**

Create Realm /realms POST Endpoint

Use this endpoint to create new SecureAuth IdP realms. Once created, the realm is configured with the default, template settings.

HTTP Method	Endpoint	Example	SecureAuth IdP version
POST	<code>/realms</code>	<code>https://secureauth.company.com/api/v1/realms</code>	v9.1
POST	<code>/realms</code>	<code>https://secureauth.company.com/api/v2/realms</code>	v9.2 or later

Definitions

- **Id**: The unique ID associated to the created realm, and the ID used for the subsequent endpoints to configure the realm's settings
- **Overview**: The realm's default Overview settings, configured via the **Overview** endpoint
- **Data**: The realm's default Data settings, configured via the **Data** endpoints
- **Workflow**: The realm's default Workflow settings, configured via the **Workflow** endpoint
- **AdaptiveAuthentication**: The realm's default Adaptive Authentication settings, configured via the **Adaptive Authentication** endpoint
- **MultiFactor**: The realm's default Multi-Factor Methods settings, configured via the Multi-Factor Methods endpoint
- **PostAuthentication**: The realm's default Post Authentication settings, configured via the **Post Authentication** endpoint
- **ApiSetting**: The realm's default API settings, configured via the **API** endpoints
- **LogSetting**: The realm's default Logs settings, configured via the **Logs** endpoint
- **status**: The status of the call, either **Success** or **Failure / Error**
- **message**: Additional information pertaining to the status that is populated only in failure responses

Success Response Example

The following examples show success responses for realm setup. The responses map to the settings available for the UI. For example, the "overview" responses map to [Overview Tab Settings](#). The "data" responses map to [Data Tab Configuration](#). For more mappings, see [Admin Guide \(versions 9.1+\)](#).

```
{
  "realm": {
    "id": 26,
    "overview": {
      "realmName": "SecureAuth26",
      "realmDescription": "",
      "companyLogoFile": "~/Images/SecureAuth_Logo_OnBlack.png",
      "applicationLogoFile": "~/Images/SecureAuth_Logo_OnBlack.png",
```

```
"documentTitle": "Document Title",
"pageHeader": "Page Header",
"theme": "2016 Light",
"usernameDisplay": "AuthenticatedUserId",
"usernameLocation": "NotShown",
"forgotUsernameUrl": "",
"forgotUsernamePageLocation": "PageFooter",
"forgotPasswordUrl": "",
"forgotPasswordPageLocation": "PageFooter",
"restartLoginUrl": "",
"restartLoginPageLocation": "Footer",
"copyrightInformation": "Copyright 2016 SecureAuth Corp. All rights reserved.",
"eulaUrl": "",
"disclaimerPageLocation": "NotShown",
"smtp": {
  "serverAddress": "",
  "port": 25,
  "username": "",
  "password": "",
  "domain": "",
  "useSsl": false
},
"email": {
  "logoFile": "~/Images/SecureAuth_Logo_OnBlack.png",
  "subject": "SecureAuth One Time Registration Code",
  "showPasscodeInSubject": "False",
  "senderAddress": "do-not-reply@company.com",
  "senderName": "SecureAuth Support",
  "template": "OTP/OTPEmailTemplate.ascx"
}
},
"data": {
  "membership": {
    "dataStoreType": "ADSamAccountName",
    "dataStore": {
      "server": "LDAP://127.0.0.1/",
      "distinguishedName": "DC=domain,DC=com",
      "domain": "domain.com",
      "allowAnonymousLookup": false,
      "connectionMode": "Secure",
      "useCyberArkVault": null,
      "cyberArkVault": null,
      "serviceAccount": "service@domain.com",
      "serviceAccountPassword": "*****",
      "searchAttribute": "samAccountName",
      "searchFilter": "(&(samAccountName=%v)(objectclass=*))",
      "useAdvancedAdUserCheck": false,
      "validateUserType": "Search",
      "userGroupCheckType": "AllowAccess",
      "userGroups": "",
      "includeNestedGroups": false,
      "groupsField": "memberOf",
      "maxInvalidPasswordAttempt": 10
    }
  },
  "profile": {
    "defaultProvider": "LDAPProfileProvider",
    "dataStoreType": "ADSamAccountName",
    "ldapDataStore": {
      "connectionMode": "Secure",
      "connectionString": "LDAP://127.0.0.1/DC=domain,DC=com",
      "searchFilter": "(&(samAccountName=%v)(objectclass=*))",
      "searchAttribute": "",
      "useCyberArkVault": null,
      "cyberArkVault": null,
      "userGroups": "",
      "connectionUsername": "service@domain.com",
      "connectionPassword": "*****",
      "includeNestedGroups": false
    },
    "sqlDataStore": {
```

```
        "sprocGetUserProfile": "",
        "sprocUpdateProfile": "",
        "allowedGroups": "",
        "connectionString": "Data Source=[ServerName];Initial Catalog=[DatabaseName];User ID=
[SQLUserName];Password=*****",
        "useCyberArkVault": null,
        "cyberArkVault": null
    },
    "oracleDataStore": {
        "connectionString": "Data Source=(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)
(HOST=localhost)(PORT=1522)))(CONNECT_DATA=(SERVER=DEDICATED)(SERVICE_NAME=[DBName]))); User Id=[username];
Password=*****",
        "useCyberArkVault": null,
        "cyberArkVault": null,
        "sprocGetProfile": "",
        "sprocUpdateProfile": ""
    },
    "azureDataStore": {
        "username": "",
        "password": "",
        "tenantDomain": "",
        "clientId": "",
        "appKey": ""
    },
    "webServiceDataStore": {
        "username": "FBAService",
        "password": "",
        "allowedUserGroups": "",
        "failover": false,
        "mainUrls": []
    },
    "profileFields": [
        {
            "propertyName": "FirstName",
            "source": "DefaultProvider",
            "field": "givenName",
            "dataFormat": "PlainText",
            "isWritable": false
        },
        {
            "propertyName": "LastName",
            "source": "DefaultProvider",
            "field": "sn",
            "dataFormat": "PlainText",
            "isWritable": false
        },
        {
            "propertyName": "AuxID1",
            "source": "DefaultProvider",
            "field": "",
            "dataFormat": "PlainText",
            "isWritable": false
        },
        {
            "propertyName": "AuxID2",
            "source": "DefaultProvider",
            "field": "",
            "dataFormat": "PlainText",
            "isWritable": false
        },
        {
            "propertyName": "AuxID3",
            "source": "DefaultProvider",
            "field": "",
            "dataFormat": "PlainText",
            "isWritable": false
        },
        {
            "propertyName": "AuxID4",
            "source": "DefaultProvider",
            "field": "",
```

```
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "AuxID5",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "AuxID6",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "AuxID7",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "AuxID8",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "AuxID9",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "AuxID10",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "Email1",
    "source": "DefaultProvider",
    "field": "mail",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "Email2",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "Phone1",
    "source": "DefaultProvider",
    "field": "telephoneNumber",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "Phone2",
    "source": "DefaultProvider",
    "field": "mobile",
    "dataFormat": "PlainText",
```

```
    "isWritable": false
  },
  {
    "propertyName": "Phone3",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "Phone4",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "KbQuestions",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "KbAnswers",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "CertCount",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "CertResetDate",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "GroupList",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": null
  },
  {
    "propertyName": "pinHash",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "MobileResetDate",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  },
  {
    "propertyName": "MobileCount",
    "source": "DefaultProvider",
    "field": "",
    "dataFormat": "PlainText",
    "isWritable": false
  }
}
```

```
},
{
  "propertyName": "CertSerialNumber",
  "source": "DefaultProvider",
  "field": "",
  "dataFormat": "PlainText",
  "isWritable": false
},
{
  "propertyName": "ExtSyncPwdDate",
  "source": "DefaultProvider",
  "field": "",
  "dataFormat": "PlainText",
  "isWritable": false
},
{
  "propertyName": "Email3",
  "source": "DefaultProvider",
  "field": "",
  "dataFormat": "PlainText",
  "isWritable": false
},
{
  "propertyName": "Email4",
  "source": "DefaultProvider",
  "field": "",
  "dataFormat": "PlainText",
  "isWritable": false
},
{
  "propertyName": "CertExpiration",
  "source": "DefaultProvider",
  "field": "",
  "dataFormat": "PlainText",
  "isWritable": false
},
{
  "propertyName": "HardwareToken",
  "source": "DefaultProvider",
  "field": "",
  "dataFormat": "PlainText",
  "isWritable": false
},
{
  "propertyName": "iOSDevices",
  "source": "DefaultProvider",
  "field": "",
  "dataFormat": "PlainText",
  "isWritable": null
},
{
  "propertyName": "OATHSeed",
  "source": "DefaultProvider",
  "field": "",
  "dataFormat": "AdvancedEncryption",
  "isWritable": false
},
{
  "propertyName": "DigitalFP",
  "source": "DefaultProvider",
  "field": "",
  "dataFormat": "PlainBinary",
  "isWritable": false
},
{
  "propertyName": "PNTToken",
  "source": "DefaultProvider",
  "field": "",
  "dataFormat": "PlainBinary",
  "isWritable": false
},
}
```

```
    {
      "propertyName": "OneTimeOATHList",
      "source": "DefaultProvider",
      "field": "",
      "dataFormat": "PlainText",
      "isWritable": false
    },
    {
      "propertyName": "AccessHistory",
      "source": "DefaultProvider",
      "field": "",
      "dataFormat": "PlainBinary",
      "isWritable": false
    },
    {
      "propertyName": "OATHToken",
      "source": "DefaultProvider",
      "field": "",
      "dataFormat": "PlainBinary",
      "isWritable": false
    },
    {
      "propertyName": "BehaveBio",
      "source": "DefaultProvider",
      "field": "",
      "dataFormat": "PlainText",
      "isWritable": null
    }
  ]
},
"globalAux1": "",
"globalAux2": "",
"globalAux3": "",
"globalAux4": "",
"globalAux5": ""
},
"workflow": {
  "deviceRecognitionMethod": {
    "integrationMethod": "CertificationEnrollmentAndValidation",
    "clientSideControl": "DeviceBrowserFingerprinting"
  },
  "browserProfileSetting": {
    "fpMode": "NoCookie",
    "cookieNamePrefix": "SecureAuthDFP_",
    "cookieExpireLength": 168,
    "matchFpIdInCookie": false,
    "authenticationThreshold": 90,
    "updateThreshold": 89
  },
  "mobileProfileSetting": {
    "fpMode": "Cookie",
    "cookieNamePrefix": "SecureAuthDFP_",
    "cookieExpireLength": 72,
    "matchFpIdInCookie": true,
    "skipIpMatch": true,
    "authenticationThreshold": 90,
    "updateThreshold": 89
  },
  "profileSetting": {
    "fpExpirationLength": 0,
    "fpExpirationSinceLastAccess": 0,
    "allowOnlyOneFpCookiePerBrowser": false,
    "totalFpMaxCount": -1,
    "whenExceedingMaxCount": "Allow",
    "replaceInOrderBy": "CreateTime",
    "fpAccessRecordsMaxCount": 5
  },
  "loginScreen": {
    "defaultWorkflow": "Username_SecondFactor_Password",
    "publicPrivateMode": "PublicPrivate",
    "publicPrivateDefault": "Private",
```

```
    "rememberPublicPrivateUserSelection": true,
    "showUserIdTextbox": false,
    "showInlinePasswordChange": false,
    "passwordThrottle": {
      "enabled": false,
      "maxFailedAttempts": 5,
      "interval": 5,
      "timeUnit": "Minutes",
      "action": "BlockUseUntilTimeLimitExpires",
      "storageLocation": "AuxID1"
    }
  },
  "sessionTimeout": {
    "sessionStateName": "ASP.NET_SessionId[SATemplate]",
    "idleTimeoutLength": 10,
    "displayTimeoutMessage": "Disabled"
  },
  "tokenPersistence": {
    "validatePersistentToken": true,
    "renewPersistentToken": false
  },
  "redirect": {
    "invalidatePersistentTokenRedirect": "",
    "tokenMissingRedirect": "",
    "profileMissingRedirect": "profilemissing.aspx",
    "mobileRedirect": "",
    "mobileIdentifiers": "ios,iphone,ipad,android,wp7"
  },
  "terminationPoint": {
    "clientFqdn": "",
    "sslTerminationCertificate": "",
    "sslCertificateAddress": "",
    "sslTerminationPoint": ""
  },
  "customIdentityConsumer": {
    "receiveToken": "SendTokenOnly",
    "requireBeginSite": false,
    "beginSite": "Custom",
    "windowsSsoUserImpersonation": false,
    "windowsSsoWindowsAuthentication": false,
    "yubiKeyProvisionPage": "",
    "customBeginSiteUrl": "",
    "receiveTokenDataType": "Name",
    "sendTokenDataType": "UserId",
    "userIdCheck": true,
    "allowTransparentSso": false,
    "delimiter": "",
    "getSharedSecret": 111,
    "setSharedSecret": 111
  },
  "fbaWebService": {
    "enabled": false,
    "username": "",
    "password": ""
  }
},
"adaptiveAuthentication": {
  "ipCountrySetting": {
    "enabled": false,
    "restrictionType": null,
    "inListAction": null,
    "ipCountryList": null,
    "failureAction": null,
    "failureActionRedirect": null,
    "requireUsernameBeforeAdaptive": null
  },
  "userGroupSetting": {
    "enabled": false,
    "restrictionType": null,
    "inListAction": null,
    "userGroupList": null,
  }
}
```



```
        "failureAction": null,
        "failureActionRedirect": null
    },
    "ipReputationThreatData": {
        "enabled": false,
        "extremeRiskAction": null,
        "extremeRiskRedirect": null,
        "highRiskAction": null,
        "highRiskRedirect": null,
        "mediumRiskAction": null,
        "mediumRiskRedirect": null,
        "lowRiskAction": null,
        "lowRiskRedirect": null,
        "ipWhitelist": null,
        "requireUsernameBeforeAdaptiveAuth": null
    },
    "geoVelocity": {
        "enabled": false,
        "velocityLimit": null,
        "failureAction": null,
        "failureActionRedirect": null
    },
    "userRisk": {
        "enabled": false,
        "highRiskFrom": null,
        "highRiskAction": null,
        "highRiskRedirect": null,
        "mediumRiskFrom": null,
        "mediumRiskAction": null,
        "mediumRiskRedirect": null,
        "lowRiskFrom": null,
        "lowRiskAction": null,
        "lowRiskRedirect": null,
        "noScoreAction": null,
        "noScoreRedirect": null,
        "profileField": null
    },
    "analyzeOrder": []
},
"multiFactor": {
    "phoneSetting": {
        "field1": "VoiceAndSmsText",
        "field2": "VoiceAndSmsText",
        "field3": "Disabled",
        "field4": "Disabled",
        "phoneSmsSelected": "Voice",
        "isVisible": true,
        "defaultCountryCode": null,
        "mask": ""
    },
    "phoneBlocking": {
        "blockedSources": [],
        "blockRecentlyChangedCarrier": false,
        "allowApproveDeleteRecentlyChangedCarrier": false,
        "carrierStorageField": "AuxID2",
        "enableBlockAllowList": false,
        "listAction": null,
        "phoneCarriers": null
    },
    "emailSetting": {
        "field1": "True",
        "field2": "False",
        "field3": "False",
        "field4": "False"
    },
    "knowledgeBasedSetting": {
        "enableQuestions": false,
        "format": "Base64",
        "questionCount": 2,
        "doConversion": false
    }
},
```

```
"helpDeskSettings": {
  "helpDesk1": {
    "enabled": false,
    "phone": "555-555-1212",
    "email": "YourSupport@Company.com"
  },
  "helpDesk2": {
    "enabled": false,
    "phone": "",
    "email": ""
  }
},
"pinSetting": {
  "enabled": false,
  "openPin": false,
  "oneTimeUse": false,
  "showWhenEmpty": false
},
"oath": {
  "enabled": false,
  "passcodeLength": 6,
  "passcodeChangeInterval": 60,
  "passcodeOffset": 5,
  "cacheLockoutDuration": 10
},
"pushNotification": {
  "requestType": "Disabled",
  "loginRequestTimeout": 1,
  "acceptMethod": "AcceptButton",
  "companyName": "",
  "applicationName": "",
  "maxDeviceCount": -1,
  "exceedingMaxCountAction": "AllowToReplace",
  "replaceOrderBy": "CreatedTime"
},
"yubiKeySetting": {
  "enableYubiKeyAuthentication": false,
  "validateYubiKey": true,
  "storageLocation": "HardwareToken"
},
"multiFactorSetting": {
  "inlineInitializeMissingPhone": false,
  "inlineInitializeMissingEmail": false,
  "inlineInitializeMissingKbAnswers": false,
  "inlineInitializeMissingPin": false,
  "enableAutoSubmitWhenAvailable": false,
  "otpLength": 6,
  "enableThrottling": false,
  "throttleMaxFailedAttempts": 5,
  "throttleInterval": 30,
  "throttleTimeUnit": "Minutes",
  "throttleAction": "BlockUseUntilTimeLimitExpires",
  "throttleStorageLocation": "AuxID1",
  "otpValidateThrottleMaxFailedAttempts": null,
  "otpValidateThrottleInterval": null,
  "otpValidateThrottleTimeUnit": null
},
"registrationMethodOrder": [
  "Email",
  "KBQ",
  "Help",
  "PIN",
  "Phone",
  "OATH"
]
},
"postAuthentication": {
  "redirectType": null,
  "redirect": null,
  "formsAuthentication": {
    "name": ".ASPXFORMSAUTH",
```

```

        "loginUrl": "SecureAuth.aspx",
        "domain": "",
        "requireSsl": true,
        "cookieMode": "UseDeviceProfile",
        "isSlidingExpiration": true,
        "timeout": 10
    },
    "machineKey": {
        "validation": "SHA1",
        "decryption": "Auto",
        "validationKey": "AutoGenerate,IsolateApps",
        "decryptionKey": "AutoGenerate,IsolateApps"
    },
    "authenticationCookie": {
        "preAuthenticationCookie": "PreAuthToken1",
        "postAuthenticationCookie": "PostAuthToken1",
        "isPersistent": false,
        "cleanUpAuthCookie": true
    }
},
"apiSetting": {
    "enableApi": false,
    "applicationId": null,
    "applicationKey": null,
    "enableAuthenticationApi": false,
    "enableIdentityManagementUserProperties": false,
    "enableIdentityManagementAdminInitiatedPasswordReset": false,
    "enableIdentityManagementUserSelfServicePasswordChange": false,
    "enableIdentityManagementUserGroupAssociation": false,
    "enableSecureAuthCredentialProviderApi": false
},
"logSetting": {
    "logInstanceId": "SecureAuth[SATemplate]",
    "enableAuditSyslog": false,
    "enableAuditEventLog": false,
    "enableAuditTextLog": false,
    "enableAuditDatabaseLog": false,
    "enableAuditExtendedOtpLog": false,
    "enableDebugSyslog": false,
    "enableDebugEventLog": false,
    "enableDebugTextLog": false,
    "enableErrorSyslog": false,
    "enableErrorEventLog": false,
    "enableErrorTextLog": true,
    "customErrorMode": "On",
    "customErrorRedirect": "customerror.htm",
    "syslogSetting": {
        "server": "",
        "port": 514,
        "rfcSpec": "None",
        "privateEnterpriseNumber": null
    },
    "logDatabaseConnectionString": "Data Source=localhost\\SQLEXPRESS;Initial Catalog=Logging;User
ID=SecureAuthSQLUser;Password=*****"
}
},
"status": "Success",
"message": []
}

```

List Realm Settings /realms/<realm ID> GET Endpoint

Use this endpoint to view the realm's current configuration. No settings can be configured at this endpoint.

HTTP Method	Endpoint	Example	SecureAuth IdP version
GET	/realms/<realm ID>	https://secureauth.company.com/api/v1/realms/26	v9.1
GET	/realms/<realm ID>	https://secureauth.company.com/api/v2/realms/26	v9.2 or later

Definitions

Realm ID: The unique ID of the SecureAuth IdP realm, generated in the Create Realm endpoint response or acquired from the Web Admin UI as the **Realm Name**, e.g. SecureAuth26, with **26** being the realm ID